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iSTOXX® METHODOLOGY GUIDE

Creating an Investment Intelligence Advantage

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1. INTRODUCTION TO THE STOXX INDEX GUIDES

The STOXX index guides are separated into the following sub-sets:

- The **STOXX Calculation guide** provides a general overview of the calculation of the STOXX equity indices, the dissemination, the index formulas and adjustments due to corporate actions
- The **STOXX Index Methodology guide** contains the equity index specific rules regarding the construction and derivation of the portfolio based indices, the individual component selection process and weighting schemes
- The **STOXX World Equity Index Methodology guide** contains the index specific rules regarding the construction and derivation of the STOXX World portfolio based indices, the individual component selection process and weighting schemes
- The **STOXX Strategy Index guide** contains the formulas and description of all strategy indices
- The **STOXX DVP Calculation guide** describes the dividend points products
- The **STOXX Distribution Points Calculation guide** describes the distribution points products
- The **STOXX ESG Index Methodology guide** contains the index specific rules regarding the construction and derivation of the ESG indices, the individual component selection process and weighting schemes
- The **iSTOXX Methodology guide** contains the index specific rules regarding the construction and derivation of the iSTOXX indices, the individual component selection process and weighting schemes
- The **STOXX Reference Rates guide** contains the rules and methodologies of the reference rate indices
- The **STOXX Reference Calculations guide** provides a detailed view of definitions and formulas of the calculations as utilized in the reports, factsheets, indices and presentations produced by STOXX
- The **STOXX Bond Index guide** contains the bond index specific rules regarding the construction of the bond indices, the individual component selection process, weighting schemes and overview of the index and bond analytics formulas
- The **STOXX Currency Rates Indices Methodology guide** contains the index specific rules regarding the construction and calculation of the derivation of the STOXX FX Rolling Spot Mid Rate and STOXX FX Rolling Spot Tomorrow Next Open Rate indices
- The **Guide to Industry Classifications Used By STOXX** contains general information pertaining to industry classifications used in STOXX indices, together with any references and links to third-parties that create the data.
- The **STOXX Eligible Market Segments guide** contains the list of stock exchanges and market segments.

All rule books are available for download on http://www.stoxx.com/indices/rulebooks.html

2. CHANGES TO THE GUIDE BOOK

2.1. HISTORY OF CHANGES TO THIS METHODOLOGY GUIDE

» June 2011: Publication of a completely new rule book
» July 2011: Inclusion of iSTOXX World Select
» May 2012: Inclusion of EURO iSTOXX 50 Equal Risk index
» December 2012: Inclusion of iSTOXX Efficient Capital Managed Futures 20 index
» January 2013: Inclusion of the iSTOXX Dynamic VSTOXX
» February 2013: Inclusion of iSTOXX Low Risk weighted indices, modification of chapter 4 iSTOXX MINIMUM VARIANCE
» September 2013: Inclusion of STOXX SD-KPI indices
» November 2013: Addition of iSTOXX Turkey Strong Quality indices
» December 2013: Addition of iSTOXX Global ESG Select
» February 2014: Addition of iSTOXX Turkey Optimised Risk Control RV indices
» March 2014: Amendment of notation in chapter 4.1 EURO iSTOXX EQUAL RISK index
» July 2014: Addition of chapter 4.4 iSTOXX EUROPE NEXT DIVIDEND LOW
» July 2014: Addition of chapter 8 iSTOXX QUALITY and chapter 3 GENERAL PRINCIPLE
» August 2014: Amendment of chapter 4.3 iSTOXX EUROPE NEXT DIVIDEND LOW RISK 50
» November 2014: Addition of the iSTOXX Europe ESG Select 30
» December 2014: Addition of Decrement indices: EURO iSTOXX Equal Weight Constant and Increment indices
» December 2014: Addition of iSTOXX Europe Select High Beta 50
» May 2015: Addition of iSTOXX Europe Maximum Dividend 8% Decrement
» July 2015: Addition of EURO iSTOXX 50 Style Weighted and EURO iSTOXX 50 Style Weighted Decrement
» August 2015: Addition of chapter 10 iSTOXX MUTB INDICES
» August 2015: Addition of chapter 17 iSTOXX Centenary indices
» August 2015: Addition of chapter 12 iSTOXX DEMOGRAPHY
» August 2015: Addition of chapter 15.1 EURO ISTOXX EX FINANCIALS HIGH DIVIDEND 50
» September 2015: Addition of EURO iSTOXX High Dividend Low Volatility 50
» September 2015: Addition of iSTOXX Global ESG Select 50
» January 2016: Addition of iSTOXX Transatlantic 100 Equal Weight Decrement, modifications of section 15.1.EURO iSTOXX ex Financials High Dividend 50
» January 2016: Addition of iSTOXX MUTB Global Quality indices to section 10 iSTOXX MUTB INDICES
» February 2016: Deletion of iSTOXX Efficient Capital Managed Futures 20 index
» March 2016: Addition of chapter 4.2 iSTOXX EUROPE MINIMUM VARIANCE HIGH DIVIDEND INDICES
» March 2016: Modification of chapter 4.1 iSTOXX EUROPE MINIMUM VARIANCE INDICES, effective July 18, 2016
» March 2016: Addition of EURO iSTOXX 50, EURO iSTOXX 50 Equal Weight and EURO iSTOXX 50 Low Carbon Decrement Indices
» April 2016: Addition of iSTOXX Europe Single & Multi Factor Indices
» April 2016 (2): Modification of section 10 iSTOXX MUTB INDICES
» April 2016 (3): Modification to STOXX SD-KPI indices
» April 2016 (4): Addition of EURO iSTOXX 60 Equal Weight and EURO iSTOXX 70 Equal Weight indices

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» April 2016 (5): Addition of EURO iSTOXX Smart Quality Momentum Value and EURO iSTOXX Smart Quality Momentum Value Decrement 50 indices
» April 2016 (6): Addition of EURO iSTOXX 60 Equal Weight Decrement 4.5% and EURO iSTOXX 70 Equal Weight Decrement 5% indices
» May 2016: Addition of EURO iSTOXX 50 FX Neutral indices
» May 2016 (2): Addition of ISTOXX MUTB JAPAN PROACTIVE LEADERS 200
» May 2016 (3): Addition of iSTOXX Broad Demography Indices, iSTOXX Global Demography Select 50 Index and iSTOXX North America ESG Select 30 Index
» June 2016: Addition of iSTOXX USA Weak Balance Sheet Ex Utilities and Financials Index
» June 2016 (2): Addition of iSTOXX FactSet Thematic Indices
» October 2016: Change of score name for SD-KPI indices
» November 2016: Addition of ISTOXX MUTB QUALITY DIVIDEND INDICES
» December 2016: Addition of iSTOXX FactSet Thematic Indices
» December 2016 (2): Addition of iSTOXX GLOBAL WOMEN LEADERSHIP SELECT 30 INDEX
» January 2017: Addition of iSTOXX Europe Single & Multi Factor Market Neutral Indices
» February 2017: Improvement of wording and addition of details to the iSTOXX Global ESG Select 100 and iSTOXX Europe ESG Select 30, EURO iSTOXX High Dividend 50, EURO iSTOXX High Dividend Low Volatility 50, iSTOXX Europe Low Variance Adjusted Beta, iSTOXX Equal Risk, iSTOXX Quality Income indices. All modifications are intended to better describe the existing processes and no changes have been made to the existing index methodologies.
» March 2017: Addition of section 21 EURO iSTOXX BANKS CAP 5% INDEX
» March 2017 (2): Addition of iSTOXX Nordic ESG DW Decrement 4.5% Index.
» March 2017 (3): Addition of 4.5/8/35 diversification rules during the calculation of the final index weights in the iSTOXX EUROPE SINGLE & MULTI FACTOR Indices in order to have portfolios in line with broadly accepted diversification criteria in terms of single weights concentration
» March 2017 (4): Addition of section 10.3 iSTOXX MUTB Japan Quality 150 Daily Hedged index
» March 2017 (5): Addition of iSTOXX Global Transitions Select 30 Index
» April 2017: Addition of iSTOXX Europe Economic Growth Select 50 Index
» July 2017: Addition of iSTOXX MUTB China A Quality AM 150 indices to section 10 iSTOXX MUTB INDICES; addition of iSTOXX Börsen-Zeitung Global 600 and addition of iSTOXX Infrastructure True Exposure USA 75% DW Index
» August 2017: addition of 10.7 ISTOXX MUTB VALUE INDICES
» August 2017 (2): addition of EURO iSTOXX 50 Futures Leveraged Index
» September 2017: correction of universe for iSTOXX Broad Demography Indices
» October 2017: addition of further index versions to 10.5 ISTOXX MUTB QUALITY DIVIDEND INDICES
» October 2017 (2): addition of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: iSTOXX® MUTB Japan Quality 150 Index, iSTOXX® MUTB Japan Proactive Leaders 200 Index, iSTOXX® MUTB Global ex Australia Quality 150 Index, iSTOXX® MUTB Global ex Japan Quality 150 Index, iSTOXX® MUTB Global Quality 150 Index, iSTOXX® MUTB Asia/Pacific Quality Dividend 100 Index, iSTOXX® MUTB Japan Quality 150 Daily Hedged Index, iSTOXX® MUTB China A Quality AM 150 Index, iSTOXX® Transatlantic US 30 Index, iSTOXX® Transatlantic 100 Equal Weight Index, iSTOXX® Transatlantic 100 Equal Weight Decrement Index, iSTOXX® MUTB Global Value 600, iSTOXX® MUTB Global ex Japan Value 600, iSTOXX® MUTB Japan Value 300, iSTOXX® MUTB Japan Quality Dividend 100, iSTOXX® MUTB Japan ex Banks Quality Dividend 100, iSTOXX® MUTB Global Quality Dividend 300,

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iSTOXX® MUTB Global ex Japan Quality Dividend 250, iSTOXX® MUTB Global ex Australia Quality Dividend 300.

» November 2017: Termination of calculation and dissemination of iSTOXX World Select Index
» November 2017 (2): addition of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: Dynamic VSTOXX, Dynamic VSTOXX Net of Costs, EURO iSTOXX Futures Leveraged
» November 2017 (3): Addition of iSTOXX Diversity Impact Select Indices
» November 2017 (4): Addition of iSTOXX Global Economic Growth Select 50 Index
» November 2017 (5): Addition of iSTOXX USA Factor indices under Section 20 (iSTOXX Factor Indices)
» November 2017 (6): Addition of iSTOXX World Top 200 Indices (Section 26), and iSTOXX World Top 200 Decrement 50 Index in Section 9.11: Decrement Indices.
» November 2017 (7): Termination of calculation and dissemination of iSTOXX Optimised Turkey Risk Control RV Index and iSTOXX Turkey Strong Quality Index
» November 2017 (8): Addition of iSTOXX MUTB Minimum Variance Indices
» December 2017: Clarification of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: iSTOXX® MUTB Japan Quality 150 Index, iSTOXX® MUTB Japan Proactive Leaders 200 Index, iSTOXX® MUTB Global ex Australia Quality 150 Index, iSTOXX® MUTB Global ex Japan Quality 150 Index, iSTOXX® MUTB Global Quality 150 Index, iSTOXX® MUTB Asia/Pacific Quality Dividend 100 Index, iSTOXX® MUTB Japan Quality 150 Daily Hedged Index, iSTOXX® MUTB China A Quality AM 150 Index, iSTOXX® Transatlantic US 30 Index, iSTOXX® Transatlantic 100 Equal Weight Index, iSTOXX® Transatlantic 100 Equal Weight Decrement Index, iSTOXX® MUTB Global Value 600, iSTOXX® MUTB Global ex Japan Value 600, iSTOXX® MUTB Japan Value 300, iSTOXX® MUTB Japan Quality Dividend 100, iSTOXX® MUTB Japan ex Banks Quality Dividend 100, iSTOXX® MUTB Global Quality Dividend 300, iSTOXX® MUTB Global ex Japan Quality Dividend 250, iSTOXX® MUTB Global ex Australia Quality Dividend 300, iSTOXX World Top 200 Indices and iSTOXX MUTB Minimum Variance Indices (iSTOXX MUTB Japan Minimum Variance, iSTOXX MUTB Global ex Japan Minimum Variance and iSTOXX MUTB Global Minimum Variance)
» December 2017 (2): Addition of iSTOXX American Century USA Indices
» January 2018: Amendment in the base values of the iSTOXX China H 20 Equal Weight HKD Index and iSTOXX Switzerland 10 Equal Weight CHF Index, following a restatement in their history. Clarification of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: EURO iSTOXX 65 Equal Weight Index, iSTOXX UK 25 Equal Weight Index, iSTOXX Switzerland 10 Equal Weight Index, iSTOXX USA 60 Equal Weight Index, iSTOXX Japan 20 Equal Weight Index, iSTOXX China H 20 Equal Weight Index, iSTOXX World Top 200 Equal Weight Index and iSTOXX World Top 200 Equal Weight Decrement 50 Index.
» February 2018: Addition of EURO iSTOXX 50® Collar Hedged Index
» February 2018: Addition of EURO iSTOXX Banks GR Decrement 50 Index
» February 2018: Addition of EURO iSTOXX 50 Equal Weight NR Decrement 5% Index
» March 2018: Addition of iSTOXX Global Industry Neutral ESG 600 index
» March 2018 (2): Addition of iSTOXX MUTB Global Ex Australia Quality Leaders 150 index
» April 2018: Addition of iSTOXX Europe Diversity Impact Select 30 NR Decrement 5%, and iSTOXX Global Diversity Impact Select 30 NR Decrement 5% Indices
» April 2018 (2): Addition of EURO iSTOXX 50 Daily Leverage, and EURO iSTOXX 50 Daily Short Indices

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» April 2018 (3): Change of review dates of iSTOXX American Century USA Value Index and iSTOXX American Century USA Income Index, change of review procedure due to calculation change of iSTOXX American Century USA Quality Value Index
» May 2018: Addition of EURO iSTOXX 50 ESG Focus and EURO iSTOXX 50 ESG Focus GR Decrement 5% Indices
» May 2018 (2): Clarification of optimization and constraint relaxation procedure for iSTOXX Factor Indices in section 16.1.5
» May 2018 (3): Inclusion of iSTOXX Asia indices
» May 2018 (4): Amendment of iSTOXX Decrement index calculation methodology and link to the Strategy guide (no functional change)
» May 2018 (5): Amendment of iSTOXX FactSet Thematic Indices methodology as per the OC determination in May 2018
» June 2018: Rule clarification: Chapter 12 iSTOXX MUTB Indices: change market capitalization to free-float market capitalization
» June 2018 (2): Addition of EURO iSTOXX 25 Challengers Equal Weight and EURO iSTOXX 25 Challengers Equal Weight NR Decrement 5.5% indices.
» July 2018: Addition of iSTOXX MUTB Momentum Indices
» July 2018 (2): Addition of Euro iSTOXX Next 30 Index and Euro iSTOXX Next 30 NR Decrement 5% Index
» July 2018 (3): Addition of iSTOXX UK 35 Index, iSTOXX Switzerland 15 Index, iSTOXX European 100 Index and iSTOXX European 100 GR Decrement 50 Index
» July 2018 (4): Addition of iSTOXX Developed Markets B.R.AI.N. Index
» August 2018: Addition of EURO iSTOXX 50 Monthly KRW Hedged Index
» August 2018 (2): Addition of iSTOXX A.C.I. USA Pure Growth Index, iSTOXX A.C.I. USA Stable Growth Index, iSTOXX American Century USA Quality Growth Index
» August 2018 (3): Addition of iSTOXX Yewno Developed Markets Blockchain Index
» August 2018 (4): Amendment in the base values of the iSTOXX MUTB Global ex-Australia Quality Leaders 150 USD Index and iSTOXX MUTB Global ex-Australia Quality Leaders 150 AUD Index, following a restatement in their history.
» August 2018 (5): Addition of iSTOXX Europe ESG Climate Awareness Select 50 Index
» September 2018: Addition of iSTOXX Asia/Pacific and South Korea Total Market Index
» September 2018 (2): Addition of WIBOR 6-month interest rate for PLN to the iSTOXX Quality Income Indices
» Valid from 21.12.2018: Addition of second non-relaxable beta constraint in 16. iSTOXX Factor Indices
» September 2018 (3): Addition of EURO iSTOXX 50 NR Decrement 5% Index and EURO iSTOXX 50 ESG Focus NR Decrement 5% Index
» October 2018 (1): Addition of iSTOXX Europe 600 Energy ex Coal GR Decrement 50 Index and iSTOXX Europe 600 Real Estate GR Decrement 50 Index
» October 2018 (2): Addition of iSTOXX FactSet Automation & Robotics (TTM) JPY Index
» October 2018 (3): Addition of iSTOXX Europe Climate Impact ex GC CW & Tobacco GR Decrement 5% Index and iSTOXX Europe Climate Impact ex GC CW & Tobacco NR Decrement 4.75%
» October 2018 (4): Addition of EURO iSTOXX 50 Collar Index
» November 2018: Deletion of EURO iSTOXX 50 Collar Hedged Index
» November 2018 (2): Addition of iSTOXX Global Diversity Enhanced Impact Select 30 Index
» November 2018 (3): Addition of EURO iSTOXX 50 Quanto EURKRW Adjusted Index

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» November 2018 (4): Addition of iSTOXX MUTB ESG Quality 200 Indices and EURO iSTOXX 50 Futures Roll Daily Leverage and Short Indices
» December 2018: Addition of iSTOXX MUTB China All Shares AM Quality Consumer 50 Index and iSTOXX China All Shares AM Index
» December 2018 (2): Addition of iSTOXX Increment Indices
» January 2019: Addition of EURO iSTOXX Equal Industry 50 EW Index and EURO iSTOXX Equal Industry 50 EW NR Decrement 5% Index
» January 2019 (2): Addition of iSTOXX Europe 600 ESG-X GR Decrement 5% Index and iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index
» January 2019 (3): Addition of iSTOXX France Germany Benelux 60 Equal Weight Index and iSTOXX France Germany Benelux 60 Equal Weight NR Decrement 5% Index
» January 2019 (4): Addition of EURO iSTOXX Environmental 50 Equal Weight Index and EURO iSTOXX Environmental 50 Equal Weight NR Decrement 5% Index
» January 2019 (5): Addition of EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor Index
» February 2019: Addition of EURO iSTOXX ESG Leaders 50 GR Decrement 5% Index, EURO iSTOXX ESG Leaders 50 NR Decrement 5% Index and EURO iSTOXX 50 GR Decrement 3.75% Index
» February 2019 (2): Addition of iSTOXX Developed and Emerging Markets ex USA PK VN Real Estate Index
» February 2019 (3): Change of turnover constraint and quality filter for both iSTOXX A.C.I. USA Pure Growth Index and iSTOXX A.C.I. USA Stable Growth Index, change of minimum growth constraint of iSTOXX A.C.I. USA Stable Growth Index, amendment of allocation formula for both iSTOXX American Century USA Quality Value and Quality Growth Index
» February 2019 (4): Change of dissemination calendar for EURO iSTOXX 50 Futures Roll Daily Leverage and Short Indices and EURO iSTOXX 50 Quanto EURKRW Adjusted Index
» February 2019 (5): Addition of iSTOXX Global Millennials Risk Control 5% RV Index
» March 2019: Addition of iSTOXX MUTB Global ex Japan Quality 150 Monthly Hedged Index
» March 2019 (2): Addition of EURO iSTOXX 50 Low Carbon NR Decrement 3.75% Index
» April 2019: Addition of iSTOXX Global ESG ex-Controversial Activities Select 30 and iSTOXX Global Low Carbon ex-Controversial Activities Select 30 Indices
» May 2019: Addition of iSTOXX Singapore Developed REITs Index
» May 2019 (2): Addition of EURO iSTOXX 50 KRW Hedged on Decrement 3.5% ER Index
» June 2019: Addition of EURO iSTOXX Responsibility Screened Select 30 Index
» June 2019 (2): Addition of iSTOXX Global Cities of Tomorrow Select 30 Index and addition of iSTOXX Transatlantic ESG 100 Equal Weight Decrement, iSTOXX Transatlantic ESG 100 Equal Weight, iSTOXX Transatlantic EU ESG 70, iSTOXX Transatlantic US ESG 30 Indices
» July 2019: Addition of iSTOXX Global ESG Trend Select 30 Index
» July 2019 (2): Addition of EURO iSTOXX ESG Choice 50 EW Index and EURO iSTOXX ESG Choice 50 EW NR Decrement 4% Index
» August 2019: Addition of EURO iSTOXX 50 ER 1.2 Monthly Leverage KRW Index
» August 2019 (2): Switch from DVFA/EFFAS KPI's to standard Sustainalytics KPI's. Affected indices: iSTOXX ESG Select Indices, iSTOXX Global Industry Neutral ESG 600 Index and iSTOXX Nordic ESG DW Index
» August 2019 (3): Addition of EURO iSTOXX ESG Core Leaders 50 Index, EURO iSTOXX ESG Core Leaders 50 NR Decrement 4% Index, EURO iSTOXX Equal Industry ESG 30 Index, EURO iSTOXX Equal Industry ESG 30 NR Decrement 4% Index and EURO iSTOXX Equal Industry ESG 30 NR Decrement 5% Index

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» August 2019 (4): Addition of iSTOXX Global Responsible Waste Management Select 30 Index, EURO iSTOXX 50 Carbon Adaptation Index and EURO iSTOXX 50 Carbon Adaptation GR Decrement 5% Index
» August 2019 (5): Addition of iSTOXX Europe Collateral Indices
» September 2019: Addition of iSTOXX Equity Dividend Indices
» September 2019 (2): amendment of effective date for ICB change from September 2019 to September 2020 as per communications on STOXX website. Clarification of cut-off date for iSTOXX Global ESG Select 100 and iSTOXX Europe ESG Select 30 indices
» October 2019: Clarifications relating to changes in the EONIA rate determination
» October 2019 (2): Addition of iSTOXX Europe Total Market Food Producers Capped 30-15 index
» October 2019 (3): Addition of iSTOXX Global Cities of Tomorrow Select 30 Decrement Indices
» October 2019 (4): Addition of EURO iSTOXX Ocean Care 40, EURO iSTOXX Ocean Care 40 Decrement 5%
» November 2019: Addition of iSTOXX Top Citywire Fund Managers NF and iSTOXX Top Citywire Fund Managers Risk Control 8% Index
» November 2019 (2): Addition of iSTOXX Dynamic Gold Hedge Indices
» November 2019 (3): Clarification relating to the dissemination calendar of the iSTOXX Dynamic Gold Hedge Indices
» November 2019 (4): Addition of iSTOXX Top Citywire Fund Managers Index, introduction of cutoff date for rating data for the iSTOXX Top Citywire Fund Managers NF Index
» November 2019 (5): Addition of iSTOXX Global Ethical Select 30 Index
» November 2019 (6): Removal of the word “Basket” from the name of the indices in the iSTOXX Europe collateral family.
» November 2019 (7): Addition of EURO iSTOXX ESG Weighted 50 Index and EURO iSTOXX ESG Weighted 50 NR Decrement 5% Index
» November 2019 (8): Addition of iSTOXX Germany Real Estate Capped 20 and iSTOXX Cross-Atlantic Sustainable Infrastructure Select 30 indices
» December 2019: Addition of iSTOXX Top Citywire Fund Managers Fixed Weights and iSTOXX Top Citywire Fund Managers Fixed Weights NF Index; addition of missing Dublin’s Christmas Holiday to non-dissemination days for the iSTOXX Top Citywire Fund Managers and iSTOXX Top Citywire Fund Managers Fixed Weights indices.
» December 2019 (2): Addition of iSTOXX Spread Ratio Indices
» December 2019 (3): Change of the methodology for the following indices: iSTOXX Europe ESG Climate Awareness Select 50 index, EURO iSTOXX Ocean Care 40 index, iSTOXX MUTB ESG Quality Indices, to reflect changes in Sustainalytics’ data and keep the economic reality of these indices intact
» January 2020: Addition of iSTOXX Italy Small and Mid Cap Index
» January 2020 (2): Addition of additional iSTOXX Spread Ratio Indices, correction of typo in high liquidity bound for iSTOXX MUTB Minimum Variance Indices
» January 2020 (3): Addition of iSTOXX Global Megatrends Select 50 Index
» January 2020 (4): Addition of iSTOXX Global NexGen Communication Innovative Technology Index
» February 2020: Addition of iSTOXX Global Profitability Select 30 Index
» March 2020: Clarification on UN Global Compact with Sustainalytics Global Standards Screening and ESG Controversy Rating
» March 2020 (2): Addition of EURO iSTOXX ESG Choice 50 EW NR Decrement 5% Index

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» March 2020 (3): Addition of iSTOXX Top Citywire Fund Managers Fixed Weights BE Index and iSTOXX Top Citywire Fund Managers AR Index
» April 2020: Addition of additional iSTOXX Spread Ratio Indices
» April 2020 (2): Methodology change in the iSTOXX FactSet Thematic indices, as per the IOC determination
» May 2020: Addition of iSTOXX MUTB Japan Empowering Women 30 Index
» May 2020 (2): Addition of iSTOXX AI Global Artificial Intelligence High Dividend 30 Index
» May 2020 (3): Addition of EURO iSTOXX 50® Futures Roll TR Decrement 3%
» May 2020 (4): Addition of iSTOXX Core Euro & Global Water Index and iSTOXX Core Euro & Global Water Decrement 5% Index
» June 2020: Addition of iSTOXX MUTB Global ex Australia Quality Leaders 150 Monthly Hedged Index
» June 2020 (2): Addition of iSTOXX Global Women in Management ex-Controversial Activities Select 30 and EURO iSTOXX Women in Management High Dividend 30 Indices
» June 2020 (3): Clarification of quarterly review of number of shares and free-float for iSTOXX Global NexGen Communication Innovative Technology Index
» June 2020 (4): Addition of iSTOXX Ambition Climat PAB Index
» June 2020 (5): Change in name resulted to STOXX Global Thematic Indices being moved to the STOXX Index Methodology Guide (previously named iSTOXX FactSet Thematic Index)
» June 2020 (6): Addition of ICB treatment effective on September 18, 2020 for indices EURO iSTOXX ESG Weighted 50, iSTOXX Global Ethical Select 30, iSTOXX Global ESG ex-Controversial Activities Select 30
» June 2020 (7): Addition of ICB treatment effective on September 18, 2020 for indices iSTOXX Global Profitability Select 30, iSTOXX Global Megatrends Select 50, iSTOXX Germany Real Estate Capped 20, iSTOXX Global Responsible Waste Management Select 30, EURO iSTOXX Equal Industry ESG 30, iSTOXX Global ESG Trend Select 30
» July 2020: Addition of ICB treatment effective on September 18, 2020 for indices iSTOXX MUTB Japan ESG Quality 200, iSTOXX MUTB Global ESG Quality 200, ISTOXX MUTB Global Ex-Japan ESG Quality 200, iSTOXX MUTB China All Shares AM Quality Consumer, iSTOXX Developed and Emerging Markets ex USA PK VN Real Estate, iSTOXX Global Diversity Enhanced Impact Select 30, iSTOXX Global Low Carbon ex-Controversial Activities Select 30, iSTOXX Singapore Developed REITs, iSTOXX Global Cities of Tomorrow Select 30, iSTOXX MUTB Global ex Australia Quality 150, iSTOXX MUTB Global ex Japan Quality 150, iSTOXX MUTB Global Quality 150, iSTOXX MUTB Japan Quality 150
» July 2020 (2): Addition of ICB treatment effective on September 18, 2020 for indices iSTOXX MUTB Quality Dividend and iSTOXX MUTB Minimum Variance
» July 2020 (3): Addition of ICB treatment effective on September 18, 2020 for indices iSTOXX Europe Broad Demography, iSTOXX Global Broad Demography, iSTOXX Europe Demography 50, iSTOXX Global Demography Select 50, iSTOXX Europe Centenary Select 30, iSTOXX MUTB Global ex Japan Value 600, iSTOXX MUTB Global Value 600, iSTOXX MUTB Japan Value 300, iSTOXX MUTB Global ex-Australia Quality Leaders 150, iSTOXX MUTB Japan Proactive Leaders 200, iSTOXX MUTB Global Momentum 600, iSTOXX MUTB Global ex Japan Momentum 600, iSTOXX MUTB Japan Momentum 300, iSTOXX MUTB Japan Empowering Women 30, iSTOXX Global Women in Management ex-Controversial Activities Select 30, EURO iSTOXX Women in Management High Dividend 30
» July 2020 (4): Addition of iSTOXX MUTB Japan ESG 30 Index
» July 2020 (5): Addition of iSTOXX Europe ESG Leaders Additional Exclusions Select 30 Index

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- July 2020 (6): Addition of ICB treatment effective on September 18, 2020 for iSTOXX Global Transitions Select 30
- August 2020: Addition of iSTOXX AI Global Artificial Intelligence 100 and iSTOXX AI Global Artificial Intelligence 100 NR Decrement 5% indices
- August 2020 (2): Addition of EURO iSTOXX Megatrends Select 30 and EURO iSTOXX Megatrends Select 30 NR Decrement 3% indices
- August 2020 (3): Addition of iSTOXX MUTB Japan Market Share Leaders Index
- September 2020: Addition of ICB treatment effective on September 18, 2020 for iSTOXX MUTB Quality 150 index family, iSTOXX USA Weak Balance Sheet ex Utilities and Financials index, iSTOXX Europe Quality Income UH, EURO iSTOXX ex Financials High Dividend 50
- October 2020: Clarification of description of Decrement and Increment indices
- October 2020 (2): Addition of iSTOXX Northern Trust indices
- October 2020 (3): Addition of iSTOXX Top Citywire Fund Managers Daily Hedged Index
- October 2020 (4): Addition of iSTOXX Europe Longevity Select 50 Index
- November 2020: Addition of iSTOXX Global Transformation Select 30 EUR and iSTOXX Global Transformation Select 30 EUR NR Decrement 4.5% indices
- November 2020 (2): Addition of iSTOXX Global Fintech 30 and iSTOXX Global Fintech 30 NR Decrement 5% indices
- November 2020 (3): Change of swap rate for iSTOXX Europe Low Variance Adjusted Beta index
- November 2020 (4): Addition of iSTOXX Northern Trust Emerging Markets indices
- December 2020: Methodology change for the EURO iSTOXX ESG Weighted 50 Index, effective December 21, 2020
- December 2020 (2): Addition of iSTOXX Select Dividend Futures Roll TR Decrement Indices
- January 2021: Addition of iSTOXX AI Global Artificial Intelligence Large 100 and iSTOXX AI Global Artificial Intelligence Large 100 NR Decrement 5% indices
- January 2021 (2): Addition of EURO iSTOXX ESG Weighted Additional Exclusions 50 and EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement indices
- January 2021 (3): Addition of EURO iSTOXX 50 Artificial Intelligence Tilted and EURO iSTOXX 50 Artificial Intelligence Tilted NR Decrement 5% indices
- February 2021: Addition of EURO iSTOXX® 50 and EURO iSTOXX® 50 Equal Weighted Decrement Indices and iSTOXX Supersector Europe Decrement Indices
- February 2021 (2): Addition of iSTOXX Spread Ratio (1-day) Indices
- February 2021 (3): Addition of EURO iSTOXX 50 ESG Focus Monthly KRW Hedged Index, EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index and EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Decrement 3.5% Index
- February 2021 (4): Addition of iSTOXX Global Electric Vehicles & Driving Technology 30 and iSTOXX Global Electric Vehicles & Driving Technology 30 NR Decrement 5% indices
- March 2021: Addition of iSTOXX Global Blue and Green Economy Select 50 index
- March 2021 (2): Addition of iSTOXX World A Index
- March 2021 (3): Addition of iSTOXX APG World-X and Responsible Indices
- March 2021 (4): Addition of iSTOXX Single Stock GR Decrement Indices
- March 2021 (5): Change of timing of gold price used for iSTOXX Dynamic Gold Hedge Indices
- April 2021: Addition of EURO iSTOXX 50 Futures Roll TR Decrement 5% Index
- April 2021 (2): Addition of EURO iSTOXX ESG Performance 50 and EURO iSTOXX ESG Performance 50 NR Decrement 5% indices

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- April 2021 (3): Addition of EURO iSTOXX Banks GR Decrement 50 Series 2, EURO iSTOXX Insurance GR Decrement 50 Series 1, iSTOXX Global Demographic Trends Select 50 and iSTOXX Global Demographic Trends Select 50 NR Decrement 5% indices
- April 2021 (4): Addition of iSTOXX Developed Markets Gold Miners 10 EW and iSTOXX Developed Markets Gold Miners 10 EW NR Decrement 5% indices
- May 2021: Addition of EURO iSTOXX 50 Electric Vehicles Tilted and EURO iSTOXX 50 Electric Vehicles Tilted NR Decrement 5% indices
- May 2021 (2): Addition of EURO iSTOXX ESG Performance 50 GR Decrement 45 Index
- May 2021 (3): Addition of EURO iSTOXX 50 ESG KRW-converted Daily Reset Index
- May 2021 (4): Addition of EURO iSTOXX Ocean Care 40 NR Decrement 3.5 Index
- May 2021 (5): Correction of dissemination calendar of iSTOXX Fund indices, which erroneously indicated Ascension Day as a fixed date.
- May 2021 (6): Addition of iSTOXX Citywire Fund Managers Selection FW Risk Control 5% Index
- May 2021 (7): Addition of iSTOXX Univest World Index
- June 2021: Addition of iSTOXX Univest USA Index
- June 2021 (2): Addition of iSTOXX Global ESG Eurozone Leg Equal Weight, iSTOXX Global ESG US Leg Equal Weight, iSTOXX Global ESG Japan Leg Equal Weight, iSTOXX Global ESG 120 and iSTOXX Global ESG 120 Decrement indices
- June 2021 (3): Correction of iSTOXX Single Stock GR Decrement Index currency in document
- June 2021 (4): Addition of EURO iSTOXX ESG Performance 50 NR Decrement 4% index
- June 2021 (5): Addition of EURO iSTOXX 50 Recovery Tilted and EURO iSTOXX 50 Recovery Tilted NR Decrement 5% indices
- June 2021 (6): Addition of 19 additional iSTOXX Single Stock GR Decrement Indices.
- June 2021 (7): Addition of iSTOXX Vietnam Futures Roll Indices.
- July 2021: Addition of USD denominated versions of iSTOXX Global Transformation Select 30 and iSTOXX Global Transformation Select 30 NR Decrement 4.5%
- July 2021 (2): Addition of percentile days to trade/liquidity constraint to iSTOXX Northern Trust Emerging Market indices
- July 2021 (3): Clarification that Decrement indices have a floor value of zero
- July 2021 (4): Addition of iSTOXX Global ESG Dividend Trend Index
- July 2021 (5): Addition of 17 iSTOXX Single Stock GR Decrement Indices
- August 2021: Change of return version for Sharpe ratio calculation of iSTOXX American Century indices
- August 2021 (2): Change of index name for iSTOXX Global 5G & NexGen Telecommunication Components Index (previously named iSTOXX Global NexGen Communication Innovative Technology Index)
- August 2021 (3): Removal of iSTOXX Asia and iSTOXX USA Weak Balance Sheet ex Utilities and Financials
- September 2021: Methodology updates for the EURO iSTOXX 50 Monthly KRW Hedged index and EURO iSTOXX 50 NR Decrement 120 KRW Hedged index. Changes to be effective on the 13th of September 2021.
- September 2021 (2): Changes to the BP LN iSTOXX Single Stock GR Decrement Indices.
- September 2021 (3): Methodology change for iSTOXX APG World-X and Responsible Indices
- September 2021 (4): Addition of an index to the iSTOXX Single Stock GR Decrement Indices.
- September 2021 (5): Addition of EURO iSTOXX 50 ESG NR Decrement 30 and EURO iSTOXX 50 ESG NR Decrement 30 Monthly KRW Hedged indices.
- September 2021 (6): Addition of EURO iSTOXX Banks Futures Roll TR Decrement 4% Index and EURO iSTOXX Banks Futures Roll TR Decrement 5% Index.

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- September 2021 (7): Addition of the iSTOXX Univest Sustainable World Index.
- October 2021: Methodology change for iSTOXX Northern Trust Indices.
- October 2021(2): Deletion of iSTOXX Europe Minimum Variance and STOXX Europe Minimum Variance High Dividend Indices.
- October 2021(3): Base date update for iSTOXX Global ESG 120 Decrement Index.
- October 2021(4): Addition of the iSTOXX PPF Responsible SDG Index.
- November 2021: Addition of the iSTOXX PPF Responsible SDG Monthly Hedged 50% Index.
- November 2021(2): Changes related to the new risk-free rates transition, from EONIA to the euro short-term rate (€STR), USD LIBOR to the USD Secured Overnight Financing Rate (SOFR), and LIBOR GBP to the GBP Sterling Overnight Index-Average (SONIA).
- November 2021(3): Methodology change for EURO iSTOXX Ambition Climat PAB Index
- November 2021(4): Addition of the EURO iSTOXX 50 Sharing Economy Tilted Index, EURO iSTOXX 50 Sharing Economy Tilted NR 5% Decrement Index, EURO iSTOXX 50 Future Healthcare Tilted Index, EURO iSTOXX 50 Future Healthcare Tilted NR 5% Decrement Index.
- November 2021(5): Clarification of the underlying for iSTOXX Europe Maximum Dividend Net Return Index
- November 2021(6): Addition of the iSTOXX Europe Responsibility Low Vol 30 Index, iSTOXX Europe Responsibility Low Vol 30 Decrement 3.5% Index, iSTOXX Europe Basic Resources GR Decrement 50 Index, iSTOXX Europe 600 Telecommunications GR Decrement 50 Index
- November 2021(7): Factset RBICS L6 sectors updated to be effective with the December 2021 review for: iSTOXX Global Transformation Select 30 Index, iSTOXX Global Megatrends Select 50 Index, EURO iSTOXX Megatrends Select 30 Index, iSTOXX Cross-Atlantic Sustainable Infrastructure Select 30 Index, iSTOXX Global Cities of Tomorrow Select 30 Index.
- November 2021(8): Change of index name for iSTOXX Europe 600 Basic Resources GR Decrement 50 Index (previously named iSTOXX Europe Basic Resources GR Decrement 50 Index).
- November 2021(9): Addition of the iSTOXX USA Ocean Care 40 Index, iSTOXX USA Ocean Care 40 NR decrement 3.5% Index and iSTOXX USA Ocean Care 40 NR decrement 5% Index
- December 2021: Rule clarification of APG Exclusion Flag for iSTOXX APG World-X and Responsible Indices
- December 2021(2): Addition of the active risk constraint to the iSTOXX Univest Sustainable World Index
- December 2021(3): Addition of the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 4% Index
- January 2022: Methodology change for iSTOXX Europe Quality Income UH index
- January 2022(2): Addition of the iSTOXX MUTB Japan Low Carbon Risk 30 Index
- January 2022(3): Addition of the iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% Decrement 3% Index
- January 2022(4): Addition of the iSTOXX France ESG 40 Decrement 50 Index
- January 2022(5): Addition of the iSTOXX Single Stock GR Forward Looking Decrement Indices
- February 2022: Addition of the iSTOXX MUTB Japan Platinum Career 150 Index
- February 2022(2): Methodology update for iSTOXX Top Citywire Fund Managers NF Index, iSTOXX Top Citywire Fund Managers Fixed Weights NF Index, iSTOXX Top Citywire Fund Managers Fixed Weights BE Index
- February 2022(3): Addition of the EURO iSTOXX 50 NR Decrement 2.5% Index
- February 2022(4): Methodology change for the EURO iSTOXX Ambition Climat PAB Index

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- February 2022(5): Addition of the EURO iSTOXX 50 Inflation Adjusted Indices
- March 2022: Addition of iSTOXX Global ESG Eurozone Leg 50, iSTOXX Global ESG US Leg 50, iSTOXX Global ESG Japan Leg 50, iSTOXX Global ESG 150, iSTOXX Global ESG 150 Decrement indices, EURO iSTOXX Banks NR Decrement 5% Index, iSTOXX Global Transformation Select 30 NR Decrement 5% Indices
- March 2022(2): Addition of two indices to the iSTOXX Single Stock GR Decrement Indices
- March 2022(3): Deletion of EURO iSTOXX 50 Equal Risk Indices
- April 2022: Addition of the iSTOXX on Single Stock Indices and iSTOXX Europe 600 Oil & Gas NR Decrement 5% Index
- April 2022(2): Addition of the 3 iSTOXX on Single Stock Indices, iSTOXX® Eurozone ESG 50 NR Decrement 5% Index and EURO iSTOXX 50 ESG NR Decrement 4.75% Index
- April 2022(3): Addition of the iSTOXX Europe 600 Oil & Gas Futures Roll TR Decrement 5% Index
- April 2022(4): Change in Underlying Data Announcement date to five days for the iSTOXX Europe Next Dividend Low Risk 50 Index, iSTOXX Europe Select High Beta 50 Index, and EURO iSTOXX Next 30 Index; and Addition of the EURO iSTOXX® 50 Futures Roll TR Decrement 3.75% Index
- May 2022: Addition of 5 indices to the iSTOXX Single Stock GR Decrement Indices and Addition of iSTOXX Single Stock on Stellantis to the iSTOXX on Single Stock Indices.
- May 2022(2): Addition of the iSTOXX Global Climate Change ESG Index and iSTOXX Global Climate Change ESG NR Decrement 4.5% Index
- May 2022(3): Changing the calendar name STOXX Asia calendar to STOXX Global calendar and changing the dissemination calendar name to STOXX US calendar for iSTOXX American Century USA Quality Value, iSTOXX American Century USA Quality Growth, iSTOXX A.C.I. USA Income, iSTOXX A.C.I. USA Value, iSTOXX A.C.I. USA Pure Growth, iSTOXX A.C.I. USA Stable Growth
- May 2022(4): Addition of the iSTOXX Eurozone ESG 50 GR Decrement 50 index
- June 2022: Addition of the iSTOXX UK ESG Equal Weight Fixed Deduction index, iSTOXX UK ESG Equal Weight Net of Financing index and iSTOXX UK ESG Equal Weight index
- June 2022(2): Methodology update of the iSTOXX Europe Quality Income UH Index
- June 2022(3): Addition of 14 indices to the iSTOXX Single Stock GR Decrement Indices, addition of 11 indices to the iSTOXX on Single Stock Indices, and addition of the iSTOXX Europe 600 Automobiles & Parts GR Decrement 50 Index.
- June 2022(4): Addition of the EURO iSTOXX 50 Digital Security Tilted Index, EURO iSTOXX 50 Broad Infrastructure Tilted Index, EURO iSTOXX 50 Digital Security Tilted NR Decrement 4.5% Index, and EURO iSTOXX 50 Broad Infrastructure Tilted NR Decrement 4.5% Index
- July 2022: Methodology update of the iSTOXX Northern Trust Developed Markets High Dividend Climate ESG Index, iSTOXX Northern Trust Developed Markets Low Volatility Climate ESG Index, iSTOXX Northern Trust Emerging Markets High Dividend Climate ESG Index, iSTOXX Northern Trust Emerging Markets Low Volatility Climate ESG Index and addition of iSTOXX Access Metaverse Index.
- July 2022(2): Addition of the EURO iSTOXX Sector exclusions Index, addition of the iSTOXX Bank Auto & Basic Resources EW Index, addition of the iSTOXX Bank Auto & Basic Resources EW GR Decrement 50 Index and section 1 updated with new guides.
- July 2022(3): Addition of the iSTOXX World Min Vol ESG Index
- July 2022(4): Change in the base value and date of iSTOXX Europe 600 Automobiles & Parts GR Decrement 50 Index

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- July 2022(5): Addition of the iSTOXX APG World-X and Responsible Minimum Volatility Indices and methodology change of the iSTOXX Top Citywire Fund Indices
- August 2022: Change of base date and base values for 8 single stock indices.
- August 2022(2): Addition of 8 indices to the iSTOXX Single Stock GR Decrement Indices, addition of 4 indices to the iSTOXX on Single Stock Indices and addition of 1 index to the iSTOXX Single Stock GR Forward Looking Decrement Indices
- August 2022(3): Addition of EURO iSTOXX 50 Futures Leverage Indices.
- September: Clarification of EURO iSTOXX 50 Futures Leverage Indices intraday rebalancing formulae.
- September (2): Changes in section 126 with addition of new leverage indices
- September (3): Addition of the iSTOXX Europe 600 Ircantec PAB Index
- October: Addition of EURO iSTOXX Banks Futures Leverage Long & Short 5X and EURO iSTOXX Oil & Gas Futures Leverage Long and Short 5X indices
- October (2): Rule clarification of iSTOXX Low Variance 120 Index
- November 2022: Updates in Section 4.1 & 4.2
- November 2022(2): Methodology change for the EURO iSTOXX Ambition Climat PAB Index & iSTOXX Global Climate Change ESG Index
- November 2022(3): Rule clarification of Selection Lists during review month, addition of the iSTOXX Family Owned ESG Company Indices and updates in RBICS sectors for EURO iSTOXX Megatrends Select 30; iSTOXX Global Megatrends Select 50, iSTOXX Cross-Atlantic Sustainable Infrastructure Select 30, iSTOXX Global Transformation Select 30 and iSTOXX Global Cities of Tomorrow Select 30 indices and update in the overview of iSTOXX Cross-Atlantic Sustainable Infrastructure Select 30 index.
- November 2022(4): Addition of iSTOXX Eurozone Megatrends 30 Index, iSTOXX USA Megatrends 30 Index, iSTOXX Transatlantic Megatrends 60 Index, iSTOXX Transatlantic Megatrends 60 GR Decrement 50 index, iSTOXX L&G Developed World ESG index, iSTOXX L&G Developed World Min Vol index and iSTOXX L&G Developed World Min Vol ESG index
- December 2022: Deletion of iSTOXX Global Women in Management ex-Controversial Activities Select 30, EURO iSTOXX 50 SD-KPI, iSTOXX Europe 50 SD-KPI and iSTOXX Europe 600 SD-KPI indices
- December 2022(2): Rule clarification of Selection Lists during review month. This is a correction to the November 2022(3): Rule clarification of Selection Lists during review month published on 25.11.2022.
- December 2022(3): Amendments in single stock index treatment, methodology change in iSTOXX MUTB Japan Platinum Career 150 index, addition of iSTOXX Europe 600 Oil & Gas Futures Leverage Long & Short 5X and iSTOXX Europe 600 Oil & Gas Futures Leverage Long & Short 7X indices and added reference of STOXX Eligible Market Segments Guide.
- December 2022(4): Name correction for iSTOXX Transatlantic Megatrends ESG 60 GR Decrement 50 Indices
- January 2023: Added reference of STOXX Bond Index Guide and minor formatting.
- January 2023(2): Separated sections for iSTOXX World Min Vol and Min Vol ESG indices.
- January 2023(3): Addition of 12 indices to the iSTOXX Single Stock GR Decrement Indices and addition of 11 indices to the iSTOXX on Single Stock
- January 2023(4): Addition of EURO iSTOXX 50 ESG NR Decrement 5% Index and iSTOXX APG Developed Real Estate Index
- February 2023: Addition of iSTOXX Global Healthcare ESG Exclusions Select 30 Index, iSTOXX Global Healthcare ESG Exclusions Select 30 NR Decrement 5% Index, iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10% Index, iSTOXX Global

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Healthcare ESG Exclusions Select 30 NR Risk Control 10% Decrement 4.5% Index, iSTOXX Global Clean Energy Selected 30 Index, iSTOXX Global Clean Energy Selected 30 NR Decrement 5% Index, iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Index and iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Decrement 4.5% Index

» February 2023(2): Addition of iSTOXX PPF Responsible SDG Emerging Markets Index, iSTOXX PPF Emerging Markets Index and iSTOXX APG Developed Real Estate -X and Responsible Indices

» February 2023(3): Addition of iSTOXX Global Transformation Select 30 NR Risk Control 10% Index and iSTOXX Global Transformation Select 30 NR Risk Control 10% Decrement 4% Index

3. GENERAL PRINCIPLE

3.1. INDEX RATIONALE

STOXX defines the index rationale as the basis for applying a certain methodology in order to achieve the index objective. STOXX performs intensive research and may conduct conversations with market participants and third parties for this purpose. STOXX discloses the index objective in every case.

3.2. METHODOLOGY REVIEW POLICIES

STOXX constantly monitors the execution of the index calculation rules in order to ensure the validity of the index methodology. STOXX also conducts general methodology reviews in a periodic and ad-hoc basis, to reflect economic and political changes and developments in the investment industry. As result of these activities, STOXX introduces changes to the methodology books. Material changes are notified to subscribers and the media through the usual communication channels. Clarifications of the methodology are updated in the rulebook. All changes are tracked in the section 2.1 HISTORY OF CHANGES TO THIS METHODOLOGY GUIDE

3.3. INDEX TERMINATION POLICY

For the termination of an index or index family for which outstanding products are present in the market to the knowledge of STOXX, a market consultation with the involved clients will be initiated by STOXX to take into account their views and concerns related to the termination or transition. A consultation period will be opened. Its duration depends on the specific issue. After the consultation period and in case of further action needed, a notification will be issued and the process defined above will be followed. In the case of a transition, STOXX will launch the alternative index and will notify of its character as a suitable replacement for an existing index whose calculation should be discontinued in the future. This notification advices clients on the alternative recommended by STOXX as replacement. The timeframe in which both indices will be calculated in parallel will be disclosed in the notification's text and will be no shorter than three months.

For the termination of an index or index family for which, to the knowledge of STOXX, no listed financial products are issued in the market, a press release notification or e-mail notification to subscribers will be communicated at least three months before coming into force. Clients or third parties with interest in the index or index family are urged to communicate as soon as possible their concerns to STOXX. Based on the feedback collected, STOXX may alter the index termination decision. For the termination of an index without financial product issued on there will be no market consultation. Changes to the original notification will be communicated in the same manner.

3.4. REPLACEMENTS FOR INDICES WITH FIXED NUMBER OF CONSTITUENTS

3. GENERAL PRINCIPLE

When referred to this section the below applies only during review implementation month:

During review implementation month, the published review report in combination with the selection list will be used to select a replacement. With the public announcement of the review report in the review implementation month, the highest ranked non-component from the selection list, which is not announced an addition to the affected index from the review report at the review effective date, will replace the deleted stock (“next viable replacement”).
For certain replacements occurring during review month and before the rebalancing date:

- If a deleted stock was scheduled for a deletion in an (size) index at the review effective date to a lower size index or entirely, the afore-mentioned process of adding the next viable replacement applies. However, to balance the number of additions and deletions at the review effective date, the lowest ranked index component on the selection list, within the same (size) index and which was not announced a deletion from the review report, will be deleted at the review effective date.

- If a deleted stock was scheduled for an addition in an (size) index at the review effective date, the afore-mentioned process of adding the next viable replacement applies. However, to balance the number of additions and deletions at the review effective date, the highest ranked index component on the selection list, within the same (size) index and which was not announced an addition from the review report, will replace the deleted addition at the review effective date.

4. RISK BASED INDICES

4.1. iSTOXX LOW VARIANCE 120 INDEX

4.1.1. OVERVIEW

The iSTOXX Low Variance 120 (LVI) is built out of the lower volatility stocks that are constituents of the STOXX Europe 600 index. It serves as underlying for the iSTOXX Europe Low Variance Adjusted Beta.

Universe: The index universe are stocks in the STOXX Europe 600 index.

Weighting scheme: Price-weighted.

Base value and dates: 1000 on Dec 31,2007

Index types and currencies: Net return in EUR and USD

4.1.2. INDEX REVIEW

Review frequency: The index is reviewed monthly. The review cut-off date is the last trading day of the previous month. Changes will be implemented on the close of the third Friday and are effective the next trading day.

Component selection:
On the review cut-off date (RCD) for each stock i of the STOXX 600 Europe index, the average daily traded
volume (ADTV) in EUR is calculated over the six month period ending on the review cut-off date.

Over the same six month period, the daily log-returns and the annualized volatilities thereof are calculated.

If the first day of the time series is not a trading day, the next trading day will be considered to start the time series and the period will consequently be shorter than 6 months.

» All stocks with an ADTV below 3,000,000 EUR are excluded
» The remaining stocks are ranked in ascending order by their respective volatility and the highest ranked 120 stocks are selected (e.g. 120 stocks with the lowest volatility).
» In case the ADTV screen results in less than 120 stocks, all remaining stocks are selected for the index and the volatility criteria is omitted.

Weighting factors: All components are equal-weighted. The weighting factors are published on the second Friday of each month, one week prior to monthly review implementation using Thursday's closing prices.

Weighting factor = (1,000,000,000 / closing price of the stock in EUR), rounded to integers.

4. RISK BASED INDICES

4.1.3. ONGOING MAINTENANCE

Corporate Actions and Dividends: All corporate actions and dividends are applied according to the STOXX calculation guide.

Replacements: A deleted stock is not replaced immediately. The weights are distributed among the remaining constituents.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily to the index and is removed after its first trading day.

4. RISK BASED INDICES

4.2. iSTOXX EUROPE LOW VARIANCE ADJUSTED BETA INDEX

4.2.1. OVERVIEW

The iSTOXX Europe Low Variance Adjusted Beta index leverages a low volatility investment, the iSTOXX Europe Low Risk Weighted 120 index, with the view to obtain a similar beta exposure as its underlying index, the STOXX Europe 600 index.

Universe: The index universe is the iSTOXX Low Variance 120 Net return (EUR) (LVI) index.

Index types and currencies: Net return in EUR

The beta of the LVI (net return EUR) which is the sensitivity of LVI log returns relative to the STOXX Europe 600 ([EU0009658210 / SXXR] – net return EUR) log returns is calculated on the trading day following each Review Cut-off Date (RCD), which is the first Friday of that month and implemented on the following rebalancing date T (which is the third Friday of that month):

$$\beta_T^{LVI} = \text{Max}\left[\text{Min}\left(\beta_T^*; \frac{1}{\text{Exp}_{OLD}(T) - 20\%}\right); \frac{1}{\text{Exp}_{OLD}(T) + 20\%}\right]$$

Where:

$$\begin{cases} \beta_T^* = \dfrac{\sum_{t=RCD-N(RCP)+1}^{RCD} \ln(1 + r_t^{LVI}) * \ln(1 + r_t^{SXXR})}{\sum_{t=RCD-N(RCP)+1}^{RCD} \ln(1 + r_t^{SXXR})^2} \\ \text{Exp}_{OLD}(T) = \text{Max}\left(50\%; \text{Min}\left(C, \dfrac{1}{\beta_{T(-1)}^{LVI}}\right)\right) \end{cases}$$

For each trading day t, daily log returns are defined as follows:

$$r_t^i = \ln\left(\frac{IC_t^i}{IC_{t-1}^i}\right)$$

Where,

r_t^i is the log return of index i between trading days t-1 and t

IC_t^i is the Index Close of index i on trading day t

And where,

RCP is the “Review Computation Period”, a six month period which ends on the review cut-off date RCD

N(RCP) is the number of trading days during the Review Computation Period

T(-1) is the rebalancing date immediately preceding T

C equals 200% and is the maximum leverage taken.

4. RISK BASED INDICES

Any variation in β_T^{LVI} on a rebalancing date would therefore result in a variation of exposure of SXLABR to LVI which is capped at 20%. In addition, the exposure of SXLABR to LVI will always be comprised between 50% and C.

4.2.2. INDEX FORMULA

The SXLABR is calculated as follows:

$$\mathrm{SXLABR}_t = \mathrm{SXLABR}_{t-1}\left(1 + \mathrm{Max}\left(50\%, \mathrm{Min}\left(C, \frac{1}{\beta_{T(t)}^{LVI}}\right)\right)\left(\frac{\mathrm{LVI}_t}{\mathrm{LVI}_{t-1}} - 1\right) + \left(1 - \mathrm{Max}\left(50\%, \mathrm{Min}\left(C, \frac{1}{\beta_{T(t)}^{LVI}}\right)\right)\right)\left(\left(€\mathrm{STR}_{t-1} + I_{T(t)} \times \mathrm{Spread}_{t-1}\right)\frac{D_{t,t-1}}{360}\right)\right)$$

where,

$$\mathrm{Spread}_{t-1} = \mathrm{EUR012M}_{t-1} - \mathrm{EUSWE}_{t-1}$$

and where,

SXLABR_t	is the SXLABR index on trading day t. The value of the index on base date will be 1,000.
C	equals 200% and is the maximum leverage taken.
$\beta_{T(t)}^{LVI}$	is the beta of of the LVI portfolio calculated as per formula 9. T(t) is the rebalancing date immediately preceding t (included)
$\mathrm{EUR012M}_{t-1}$	is the Euribor 12-month rate on trading day t-1, RIC code: EURIBOR= (1Y Maturity)
EUSWE_{t-1}	is the Euro 1Y Overnight swap rate on trading day t-1, RIC code: EUREST1Y= (until Nov. 30, 2020, the Euro swap EONIA 12-month rate on trading day t-1, RIC code: EONIAINDEX (1Y Maturity), was used)
$€\mathrm{STR}_{t-1}$	is the €STR overnight rate on trading day t-1.
360	is the day-count convention for the above interest rates
$D_{t,t-1}$	is the number of calendar days between two immediate trading days t (excluded) and t-1 (included).
$I_{T(t)}$	is a dummy variable calculated in respect of each rebalancing date T(t) (which is the rebalancing date immediately preceding t (included)):
$I_{T(t)} = 1$	if $\beta_{T(t)}^{LVI} < 1$

4. RISK BASED INDICES

$I_{T(t)} = 0$ if $\beta_{T(t)}^{LVI} \geq 1$

t-1 is the trading day immediately preceding t.

4.2.3. INTRADAY REBALANCING

In order to account for the risk of a dramatic fall in the value of the SXLABR index due to extreme market movements, the SXLABR index also incorporates an intraday reset feature. If, at any time v during a trading Day t between 9:00 to 16:00 CET, the SXLABR loses 50% or more compared to its last closing level (such event being defined as an "Intraday Restrike Event"), then STOXX shall observe the values of the SXLABR index during the 15 minutes following time v (such period being called the "Observation Period").

The lowest value of the SXLABR during the observation time is used to simulate a new closing time called SXLABR* with its corresponding LVI* value at time v according to the formula below.

$$SXLABR_{t*} = SXLABR_{t-1}\left(1 + Max\left(50\%, Min\left(C, \frac{1}{\beta_{T(t)}^{LVI}}\right)\right)\left(\frac{LVI_{t*}}{LVI_{t-1}} - 1\right)\right.$$
$$\left. + \left(1 - Max\left(50\%, Min\left(C, \frac{1}{\beta_{T(t)}^{LVI}}\right)\right)\right)\left(\left(€STR_{t-1} + I_{T(t)} \times Spread_{t-1}\right)\frac{D_{t,t-1}}{360}\right)\right)$$

where,

$SXLABR_{t*}$ = lowest values during the observation period

LVI* = corresponding LVI value at the time of the lowest SXLABR value

After the observation period until the real daily close the SXLABR index will calculate using $SXLABR_{t*}$ and LVI* as new reference points:

$$SXLABR_{t*}\left(1 + Max\left(50\%, Min\left(C, \frac{1}{\beta_{T(t)}^{LVI}}\right)\right)\left(\frac{LVI_{t}}{LVI_{t*}} - 1\right)\right)$$

The difference between the calculation before and after the intraday rebalancing event is that the right-hand part of the initial formula has been dropped because interest rate / financing charges have already been accounted for between the daily open and intraday rebalancing event. In the unlikely case that a second intraday rebalancing event is triggered - within the same trading day t – a new observation period is triggered and the SXLABR index will calculate again as described as above with new reference points $SXLABR_{t*}$ and LVI*.

4. RISK BASED INDICES

4.3. iSTOXX EUROPE NEXT DIVIDEND LOW RISK 50 INDEX

4.3.1. OVERVIEW

The iSTOXX Europe Next Dividend Low Risk 50 Index monthly selects companies from the STOXX Europe 600 that will have a dividend ex-date in the next month and have historically shown low volatility. All stocks are risk-weighted.

Universe: The index universe is defined by the STOXX Europe 600 Index.

Weighting Scheme: Price-weighted with a weighting factor based on the inverse of the 6-month volatility.

Base values and dates: 100 on Jan 23, 2009.

Index types and currencies: Price, net return, gross return in EUR and USD.
Price EUR: realtime, others: end-of-day

4.3.2. INDEX REVIEW

Selection List: In a first step a liquidity filter is applied to the universe: Only companies with a 3-month average daily traded value (ADTV) greater than EUR 10mln are selected.
In a second step all remaining companies are ranked in increasing order by their 6-month volatility (using daily returns). The top third (i.e. with low volatility) is selected and builds the selection list.

Component selection: From that selection list the 50 highest ranked companies which are going to pay a dividend during the next review cycle are then chosen as index components. If this yields less than 50 companies, the highest ranked companies (i.e. with low volatility) which are not paying a dividend are selected to complete the index.

Review frequency: The reviews are conducted on a monthly basis. New compositions are implemented after the third Friday of each month. The new compositions and weighting factors are announced on the second Friday. The underlying data (weighting factors) will be based on the closing prices of Thursday.

Weight and capping factors: The weighting factors are calculated based on the inverse of the 6-month historical volatility as follows:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

w_i weight of component (i)
σ_i historical 6-month volatility of component (i)

Weighting factor = weight * (100,000,000,000 / closing price of the stock in EUR), rounded to integers

An additional cap factor of 5% per index constituent applies.

4. RISK BASED INDICES

4.3.3. ONGOING MAINTENANCE

Replacements: A deleted company is not replaced.
If one company is excluded from the STOXX Europe 600 between review dates, but remains in the STOXX Global TMI, this company will not be excluded from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

4. RISK BASED INDICES

4.4. iSTOXX EUROPE SELECT HIGH BETA 50 INDEX

4.4.1. OVERVIEW

The iSTOXX Europe Select High Beta 50 Index monthly selects those companies from the STOXX Europe 600 that have shown a high beta historically will have a dividend ex-date in the next month.

Universe: The index universe is defined by the STOXX Europe 600 Index.

Weighting scheme: Price-weighted with a weighting factor to achieve an equal weight

Base values and dates: 100 on Dec 23, 2002

Index types and currencies: Price, net return, gross return in EUR and USD.

4.4.2. INDEX REVIEW

Selection List: In a first step a liquidity filter is applied to the universe: Only companies with a 3-month average daily traded value (ADTV) greater than EUR 25mln are selected.
In a second step all remaining companies are ranked in by their 6-month volatility (using daily returns) and the top and bottom fifth is removed. The companies left are then sorted by their 6-month beta with the EURO STOXX 50 Index and companies with a beta greater than 1.5 are removed as well. The top 125 companies by beta of the remaining companies build up the selection list.

Component selection: From the selection list the 50 highest ranked companies that will have a dividend ex-date in the next month are chosen as index components. If this yields less than 50 companies, the highest ranked companies (i.e. with high beta) which are not paying a dividend are selected to complete the index.

Review frequency: The reviews are conducted on a monthly basis. New compositions are implemented after the third Friday of each month. The new compositions and underlying data (weighting factors) are announced on the second Friday. The underlying data (weighting factors) will be based on the closing prices of Thursday.

4.4.3. ONGOING MAINTENANCE

Replacements: A deleted company is not replaced. If one company is excluded from the STOXX Europe 600 between review dates, but remains in the STOXX Global TMI, this company will remain in the index.

Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

5. DYNAMIC VSTOXX INDEX

5.1. DYNAMIC VSTOXX INDEX

5.1.1. OVERVIEW

The Dynamic VSTOXX Index is an "index of indices", i.e. its value is calculated based on the value of other underlying indices.

The indices constituting the Dynamic VSTOXX index are the EURO STOXX 50 Volatility Short-Term Futures Index and EURO STOXX 50 Volatility Mid-Term Futures Index.
The goal of the dynamic allocation between the two components is to exploit the better returns short-term futures normally offer in non-stressed markets over longer termed futures. Non-stressed markets are typically associated with backwardation: an indicator of the current backwardation/contango status can be used to trigger the allocation between the two index components.

The portion allocated to each component index is adjusted on every Index Rebalancing Day and such an event can occur as frequently as daily, depending on certain conditions being met (please refer to the tables below for a detailed definition).
In essence, the allocation is triggered by the level reached by a Trading Signal, calculated as ratio of the closing values of the VSTOXX Index and VSTOXX 120 days Index: to a higher ratio level, corresponds a higher allocation to the EURO STOXX 50 Volatility Short-Term Futures Index. The tables detail how a Trading Signal is commuted into allocation weights for the three different index variants available: Standard, Long-Only and Alpha.

Universe: EURO STOXX 50 Volatility Short-Term Futures Index (VST1ME) and EURO STOXX 50 Volatility Mid-Term Futures Index (VMT5ME)

Weighting scheme: signal-based, daily rebalanced.

Base values and date: 100 on June 17, 2010

Index types and currencies: Total return and excess return, in EUR, in real-time.

Dissemination calendar: STOXX Eurex Calendar

Index value formula:

1. A Trading Signal is calculated as follow:

   $$TS_d = \frac{\text{Index}A_d}{\text{Index}B_d}$$

   Index A_d = Closing level of VSTOXX index (V2TX) on Index Calculation Day *d* and Index Index B_d = Closing level of VSTOXX120 days index (VSTX120) on Index Calculation Day d.

2. On any Index Calculation Day d the Target Exposure for Short-Term (STE_d) and Mid-Term (MTE_d) are calculated based on the Trading Signal calculated on the previous Index Calculation Day (TS_{d-1}), according to the tables below.

5. DYNAMIC VSTOXX INDEX

3. On any Index Calculation Day d the Exposure for Short-Term (SE_d) and Mid-Term (ME_d) are calculated based on the Target Exposure for Short-Term and Mid-Term for that day (STE_d, MTE_d) and the Exposure for Short-Term and Mid-Term on the previous day (SE_{d-1}, ME_{d-1}):

$$SE_d = \begin{cases} \min(STE_d, SE_{d-1} + \text{buffer}) & \text{if } SE_{d-1} < STE_d \\ \max(STE_d, SE_{d-1} - \text{buffer}) & \text{if } SE_{d-1} > STE_d \\ SE_{d-1} & \text{otherwise} \end{cases}$$

$$ME_d = \begin{cases} \min(MTE_d, ME_{d-1} + \text{buffer}) & \text{if } ME_{d-1} < MTE_d \\ \max(MTE_d, ME_{d-1} - \text{buffer}) & \text{if } ME_{d-1} > MTE_d \\ ME_{d-1} & \text{otherwise} \end{cases}$$

Parameter buffer = 5%.

On Index Commencement Date (d = 0): $SE_0 = STE_0$ and $ME_0 = MTE_0$.

4. On any Index Calculation Day d, the value of the Excess Return Index at time t is calculated as:

$$I_t^{ER} = I_R^{ER} \cdot \left[1 + SE_R \cdot \left(\frac{SIU_t}{SIU_R} - 1 \right) + ME_R \cdot \left(\frac{MIU_t}{MIU_R} - 1 \right) \right]$$

R (subscript)	= Value of the relevant variable on the immediately preceding Rebalancing Date R, as described in formula 5
SIUt	= Index Value at time t of the EURO STOXX 50 Volatility Short-Term Futures Index (VST1ME)
MIU_t	= Index Value at time t of the EURO STOXX 50 Volatility Mid-Term Futures Index (VMT5ME).

On Index Commencement Date (d = 0), $I_0^{ER} = 100.00$.

5. An Index Rebalancing Day R is defined as:
   - » First Index Calculation Day d of each calendar month, or
   - » Any Index Calculation Day d on which $SE_d \neq SE_{d-1}$, or
   - » Any Index Calculation Day d on which $ME_d \neq ME_{d-1}$, or
   - » Any Index Calculation Day d on which $\frac{I_{d-1}^{ER}}{I_R^{ER}} < 0.5$

5. DYNAMIC VSTOXX INDEX

6. On any Index Calculation Day d, the value of the Total Return Index at time t is calculated as:

$$I_t^{TR} = I_{d-1}^{TR} \cdot \left[\frac{I_t^{ER}}{I_{d-1}^{ER}} + CR_{d-1} \cdot \frac{days_{d-1,\,d}}{360} \right]$$

CR_d = Official Close Value of €STR rate on Index Calculation Day d
$days_{d-1}$ = Number of actual calendar days between the immediately preceding Index Calculation Day d-1 (excluded) and the current Index Calculation Day d (included)
On Index Commencement Date (d = 0), $I_0^{TR} = 100.00$.

List of Indices/Variants
The Index is calculated in 3 versions and 2 variants for each version:

1. Standard version:
   a. Dynamic VSTOXX ER, as calculated in step 4
   b. Dynamic VSTOXX TR, as calculated in step 6
2. Long-Only version:
   a. Dynamic VSTOXX Long-Only ER, as calculated in step 4
   b. Dynamic VSTOXX Long-Only TR, as calculated in step 6
3. Alpha version:
   a. Dynamic VSTOXX Alpha ER, as calculated in step 4
   b. Dynamic VSTOXX Alpha TR, as calculated in step 6

For the purpose of calculating Target Exposure for Short-Term (STE_d) and Mid-Term (MTE_d), the following assignments hold:

Standard Version

Trading Signal (TS_{d-1})	Short-Term Target Exposure (STE_d)	Mid-Term Target Exposure (MTE_d)
$TS_{d-1} < 100\%$	-30%	70%
$100\% \leq TS_{d-1} < 103\%$	0%	100%
$103\% \leq TS_{d-1} < 110\%$	25%	75%
$TS_{d-1} \geq 110\%$	50%	50%

Long-Only Version

Trading Signal (TS_{d-1})	Short-Term Target Exposure (STE_d)	Mid-Term Target Exposure (MTE_d)
$TS_{d-1} < 100\%$	0%	0%
$100\% \leq TS_{d-1} < 103\%$	0%	50%
$103\% \leq TS_{d-1} < 110\%$	25%	75%
$TS_{d-1} \geq 110\%$	50%	50%

5. DYNAMIC VSTOXX INDEX

Alpha Version

Trading Signal (TS_{d-1})	Short-Term (STE_d)	Target	Exposure	Mid-Term (MTE_d)	Target	Exposure
$TS_{d-1} < 100\%$	-50%			50%		
$100\% \leq TS_{d-1} < 103\%$	-25%			75%		
$103\% \leq TS_{d-1} < 110\%$	25%			75%		
$TS_{d-1} \geq 110\%$	50%			50%		

6. DYNAMIC VSTOXX NET OF COSTS INDEX

6.1. DYNAMIC VSTOXX NET OF COSTS INDEX

6.1.1. OVERVIEW

The Dynamic VSTOXX Net of Costs Index is conceptually similar to the Dynamic VSTOXX Index, but it additionally accounts for costs which are typically associated with the index replication process, with the goal of improving representativeness and replicability, for the benefit of the investor: Execution Costs associated with the Turnover and Replication Costs are included.
All costs are clearly stated and identifiable in the formulae, therefore ensuring the highest transparency to the investor.

The Dynamic VSTOXX Net of Costs is a combination of the EURO STOXX 50 Volatility Short-Term Futures Index and EURO STOXX 50 Volatility Mid-Term Futures Index.

The indices constituting the Dynamic VSTOXX index are the EURO STOXX 50 Volatility Short-Term Futures Index and EURO STOXX 50 Volatility Mid-Term Futures Index.
The goal of the dynamic allocation between the two components is to exploit the better returns short-term futures normally offer in non-stressed markets over longer termed futures. Non-stressed markets are typically associated with backwardation: an indicator of the current backwardation/contango status can be used to trigger the allocation between the two index components.

The portion allocated to each component index is adjusted on every Index Rebalancing Day and such an event can occur as frequently as daily, depending on certain conditions being met (please refer to the tables below for a detailed definition).

In essence, the allocation is triggered by the level reached by a Trading Signal, calculated as ratio of the closing values of the VSTOXX Index and VSTOXX 120 days Index: to a higher ratio level, corresponds a higher allocation to the EURO STOXX 50 Volatility Short-Term Futures Index. The tables detail how a Trading Signal is commuted into allocation weights for the three different index variants available: Standard, Long-Only and Alpha.

Universe: EURO STOXX 50 Volatility Short-Term Futures Index (VST1ME) and EURO STOXX 50 Volatility Mid-Term Futures Index (VMT5ME).

Weighting scheme: Signal-based, daily rebalanced.

Base values and date: 100 on June 17, 2010

Index types and currencies: Total return and excess return, in EUR, in real time

Dissemination calendar: STOXX Eurex Calendar

Index value formula

1. A Trading Signal is calculated as follow:

$$TS_d = \frac{\text{Index}A_d}{\text{Index}B_d}$$

6. DYNAMIC VSTOXX NET OF COSTS INDEX

Index A_d = Closing level of VSTOXX index (V2TX) on Index Calculation Day d
Index B_d = Closing level of VSTOXX120 days index (VSTX120) on Index Calculation Day d.

2. On any Index Calculation Day d the Target Exposure for Short-Term (STE_d) and Mid-Term (MTE_d) are calculated based on the Trading Signal calculated on the previous Index Calculation Day (TS_{d-1}), according to the tables below.

3. On any Index Calculation Day d the Exposure for Short-Term (SE_d) and Mid-Term (ME_d) are calculated based on the Target Exposure for Short-Term and Mid-Term for that day (STE_d, MTE_d), and the Exposure for Short-Term and Mid-Term on the previous day (SE_{d-1}, ME_{d-1}):

$$SE_d = \begin{cases} \min(STE_d, SE_{d-1} + \text{buffer}) \text{ if } SE_{d-1} < STE_d \\ \max(STE_d, SE_{d-1} - \text{buffer}) \text{ if } SE_{d-1} > STE_d \\ SE_{d-1} \text{ otherwise} \end{cases}$$

$$ME_d = \begin{cases} \min(MTE_d, ME_{d-1} + \text{buffer}) \text{ if } ME_{d-1} < MTE_d \\ \max(MTE_d, ME_{d-1} - \text{buffer}) \text{ if } ME_{d-1} > MTE_d \\ ME_{d-1} \text{ otherwise} \end{cases}$$

Parameter buffer = 5%.

On Index Commencement Date (d = 0), $SE_0 = STE_0$ and $ME_0 = MTE_0$.

4. On any Index Calculation Day d, the value of the Excess Return Index at time t is calculated as:

$$I_t^{ER} = I_R^{ER} \cdot (1 - EC \cdot TO_d) \cdot \left[1 + SE_R \cdot \left(\frac{SIU_t}{SIU_R} - 1 \right) + ME_R \cdot \left(\frac{MIU_t}{MIU_R} - 1 \right) - Fee_d \right]$$

R (subscript) = Value of the relevant variable on the immediately preceding Rebalancing Date R, as described in formula 5
EC = Execution Cost, $EC = 0.10\%$
TO_d = Turnover on Index Calculation Day d, calculated as in formula 6
SIU_t = Index Value at time t of the EURO STOXX 50 Volatility Short-Term Futures Index (VST1ME)
MIU_t = Index Value at time t of the EURO STOXX 50 Volatility Mid-Term Futures Index (VMT5ME)

6. DYNAMIC VSTOXX NET OF COSTS INDEX

Fee_d = Total fees on Index Calculation Day d, as calculated in formula 7

On Index Commencement Date (d = 0), $I_0^{ER} = 100.00$.

5. An Index Rebalancing Day R is defined as:
   » First Index Calculation Day d of each calendar month, or
   » Any Index Calculation Day d on which $SE_d \neq SE_{d-1}$, or
   » Any Index Calculation Day d on which $ME_d \neq ME_{d-1}$, or
   » Any Index Calculation Day d on which $\frac{I_{d-1}^{ER}}{I_R^{ER}} < 0.5$
6. On any Index Calculation Day d, Turnover represents the amount of Short-Term Index Underlying and Mid-Term Index Underlying rebalanced on that day, according to the following formula:

$$TO_d = |SE_d - SE_R| + |ME_d - ME_R|$$

7. The total fees on Index Calculation Day d are comprised of the Index Management Fee and the Replication Cost based on daily exposure:

$$Fee_d = \left(|SE_R| + |ME_R|\right) \cdot RC \cdot \frac{days_{R,d}}{365}$$

RC = Replication Cost, $RC = 1.00\%$p.a.
$days_{R,d}$ = Number of calendar days between the immediately preceding Rebalancing Day R (excluded) and the current Index Calculation Day d (included).

8. On any Index Calculation Day d, the value of the Total Return Index at time t is calculated as:

$$I_t^{TR} = I_{d-1}^{TR} \cdot \left[\frac{I_t^{ER}}{I_{d-1}^{ER}} + CR_{d-1} \cdot \frac{days_{d-1,d}}{360} \right]$$

CR_d = Official Close Value of €STR rate on Index Calculation Day d
$days_{d-1,d}$ = Number of actual calendar days between the immediately preceding Index Calculation Day d-1 (excluded) and the current Index Calculation Day d (included)

On Index Commencement Date (d = 0), $I_0^{ER} = 100.00$.

List of Indices / Variants
The Index is calculated in 3 versions and 2 variants for each version:

6. DYNAMIC VSTOXX NET OF COSTS INDEX

1. Standard version:
    c. Dynamic VSTOXX Net of Costs ER, as calculated in step 4
    d. Dynamic VSTOXX Net of Costs TR, as calculated in step 6
2. Long-Only version:
    a. Dynamic VSTOXX Long-Only Net of Costs ER, as calculated in step 4
    b. Dynamic VSTOXX Long-Only Net of Costs TR, as calculated in step 6
3. Alpha version:
    a. Dynamic VSTOXX Alpha Net of Costs ER, as calculated in step 4
    b. Dynamic VSTOXX Alpha Net of Costs TR, as calculated in step 6

For the purpose of calculating Target Exposure for Short-Term (STE_d) and Mid-Term (MTE_d), the following assignments hold:

Standard Version

Trading Signal (TS_{d-1})	Short-Term Target Exposure (STE_d)	Mid-Term Target Exposure (MTE_d)
$TS_{d-1} < 100\%$	-30%	70%
$100\% \leq TS_{d-1} < 103\%$	0%	100%
$103\% \leq TS_{d-1} < 110\%$	25%	75%
$TS_{d-1} \geq 110\%$	50%	50%

Long-Only Version

Trading Signal (TS_{d-1})	Short-Term Target Exposure (STE_d)	Mid-Term Target Exposure (MTE_d)
$TS_{d-1} < 100\%$	0%	0%
$100\% \leq TS_{d-1} < 103\%$	0%	50%
$103\% \leq TS_{d-1} < 110\%$	25%	75%
$TS_{d-1} \geq 110\%$	50%	50%

Alpha Version

Trading Signal (TS_{d-1})	Short-Term Target Exposure (STE_d)	Mid-Term Target Exposure (MTE_d)
$TS_{d-1} < 100\%$	-50%	50%
$100\% \leq TS_{d-1} < 103\%$	-25%	75%
$103\% \leq TS_{d-1} < 110\%$	25%	75%
$TS_{d-1} \geq 110\%$	50%	50%

For the purpose of calculating Net of Costs variants, the following assignments hold:

Execution Cost: EC=0.10%
Replication Cost: RC=1.00% p.a.

7. iSTOXX ESG SELECT INDICES

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7.1. ISTOXX GLOBAL ESG SELECT 100 INDEX

7.1.1. OVERVIEW

The index represents the top 100 companies from the STOXX Global ESG Leaders index in terms of lowest volatility and highest dividend yield.

Universe: The index universe are stocks from the STOXX Global ESG Leaders Index

Weighting scheme: Free Float Market Cap weighted with a 10% weighting capfactor per constituent

Base values and dates: 100 on Sep 20, 2004

Index types and currencies: Price, net return and gross return in EUR, GBP and USD

7.1.2. INDEX REVIEW

Selection List: On the review cut-off date for each stock of the STOXX Global ESG Leaders Index the following factors are calculated:
» One year historical volatility
» Gross dividend yield

The stocks are ranked in ascending order by their respective volatility (in EUR) and in descending order by their gross dividend yield. All stocks are then ranked according to the average rank of the two ranks previously described.

Composition list: The highest ranked 100 stocks are selected (i.e. smallest overall rank). In case several stocks have the same overall rank, priority is given to the stock with the lowest volatility.

Review frequency: The index composition is reviewed annually in September. Shares, Free Float factors and capfactors are reviewed each quarter (March, June, September, December). The cut-off date for all data is the last dissemination day of the month prior to the quarterly review month. The implementation of the reviews is in line with the STOXX Global indices.

Weighting cap factors: Components weights are capped quarterly at a maximum weight of 10%. Cap factors are calculated using prices of the Thursday prior to the second Friday of the month.

Derived indices: not applicable

7.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are replaced with highest ranked non-component from the selection list. The selection lists are created annually in line with the periodic index review. During review implementation month the process laid out in section 3.4. of the iSTOXX Methodology Guide will be applied.

Fast exit: Not applicable.

7. iSTOXX ESG SELECT INDICES

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily and removed after its first trading day.

7. iSTOXX ESG SELECT INDICES

7.2. iSTOXX EUROPE ESG SELECT 30 INDEX

7.2.1. OVERVIEW

The index represents the top 30 European companies from the STOXX Global ESG Leaders index in terms of lowest volatility and highest dividend yield.

Universe: The index universe are all European stocks from the STOXX Global ESG Leaders Index

Weighting scheme: Free Float Market Cap weighted with a 10% weighting capfactor per constituent

Base values and dates: 100 on Sep 20, 2004

Index types and currencies: Price, net return and gross return in EUR, GBP and USD

7.2.2. INDEX REVIEW

Selection List: On the review cut-off date for each European stock of the STOXX Global ESG Leaders Index the following factors are calculated:
» One year historical volatility
» Gross dividend yield

The stocks are ranked in ascending order by their respective volatility (in EUR) and in descending order by their gross dividend yield. All stocks are then ranked according to the average rank of the two ranks previously described.

Composition list: The highest ranked 30 European stocks are selected (i.e. smallest overall rank). In case several stocks have the same overall rank, priority is given to the stock with the lowest volatility.

Review frequency The index composition is reviewed annually in September. Shares, Free Float factors and capfactors are reviewed each quarter (March, June, September, December). The cut-off date for all data is the last dissemination day of the month prior to the quarterly review month. The implementation of the reviews is in line with the STOXX Global indices.

Weighting cap factors: Components weights are capped quarterly at a maximum weight of 10%. Cap factors are calculated using prices of the Thursday prior to the second Friday of the month.

Derived indices: not applicable

7.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are replaced with highest ranked non-component from the selection list. The selection lists are created annually in line with the periodic index review. During review implementation month the process laid out in section 3.4. of the iSTOXX Methodology Guide will be applied.

Fast exit: Not applicable.

7. iSTOXX ESG SELECT INDICES

Fast entry: Not applicable.
Spin-offs: A spin-off is added temporarily and removed after its first trading day.

7. iSTOXX ESG SELECT INDICES

7.3. iSTOXX NORTH AMERICA ESG SELECT 30 INDEX

7.3.1. OVERVIEW

The index selects North American components from the STOXX Global ESG Leaders index based on the following main criteria: low volatility and high dividends yield

Universe: All the North American stocks from the STOXX Global ESG leaders index

Weighting scheme: Price-weighted with a weighting factor according to the inverse of the 12 months historical volatility and additionally with weighting cap limit of 10% per constituent

Base values and dates: The following base values and dates apply: 100 as of June 21, 2004

For a complete list, please consult the data vendor code sheet on the website[1]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR and USD.

7.3.2. INDEX REVIEW

Selection List: On the review cut-off date, for each North American stock of the STOXX Global ESG Leaders Index, the following factors are calculated:
» One year historical volatility in USD
» Gross dividend yield

The stocks are ranked in ascending order by their respective volatility and in descending order by their Gross Dividend yield. All stocks are then ranked according to the average rank of the two ranks previously described.

Component list and selection: Top 30 are selected (i.e. smallest overall rank).

In case several stocks have the same overall rank, priority is given to the stock with the lowest volatility.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The prices based on the Thursday prior to the second Friday of the month.

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

[1] http://www.STOXX.com/download/indices/vendor_codes.xls

7. iSTOXX ESG SELECT INDICES

wi weight of component (i)
σ_i historical 12-months volatility of component (i)

Weighting factor = weight * (1,000,000,000 / closing price of the stock), rounded to integers.
Additionally, components are capped at a maximum weight of 10%.

7.3.3. ONGOING MAINTENANCE
Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is not added permanently to the index.

7. iSTOXX ESG SELECT INDICES

7.4. iSTOXX GLOBAL ESG SELECT 50 INDEX

7.4.1. OVERVIEW

The index selects, among the Global ESG Leaders index, the top dividend payers of each region (Europe, North America, Asia/Pacific), while applying constrains on the minimum/maximum numbers of stocks per regions and industries. The selected companies are weighted according to the inverse of their 12-month historical volatility in EUR (with a minimum of 0.5% and a maximum of 4%).

Universe: All stocks from the STOXX Global ESG Leaders index.

Weighting scheme: The indices are weighted according to the inverse of the 12-month historical volatility in EUR.

Base values and dates: The following base values and dates apply: 100 on June 21, 2004.

Index types and currencies: Price, net and gross return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website[2]. Customized solutions can be provided upon request.

7.4.2. INDEX REVIEW

Selection list: The review cutoff date of the index is the last trading day of the month preceding the review date.

The STOXX Global ESG Leaders index constituents are separated into three groups by region: Europe, Asia/Pacific and North America.

In each group, all constituents are screened in the following order:

1. Availability of 1 year of historical prices to calculate the 1-year volatility in EUR
2. 3-month Average Daily Traded Volume (ADTV) above USD 20 Mln
3. 1-year historical growth dividend yield above the regional benchmark

The gross dividend yield of each region is calculated by subtracting the EUR 1-year price performance of the benchmark index to the EUR 1-year gross return performance:

$$\begin{aligned}\text{Gross Dividend Yield}_{\text{Region}} &= \text{1 Year Gross Return performance}_{\text{benchmark index}} \\ &- \text{1 Year Price performance}_{\text{benchmark index}}\end{aligned}$$

With the following parameters:

Region	Benchmark index
Asia/Pacific	STOXX Asia/Pacific 600

[2] http://www.STOXX.com/download/indices/vendor_codes.xls

7. iSTOXX ESG SELECT INDICES

North America	STOXX North America 600
Europe	STOXX Europe 600

If one or several parameters are not available, the company is excluded from the base universe. In each region, a minimum number of companies must pass the liquidity screening. If in any region, the minimum number of stocks is not reached, the ADTV threshold is reduced to USD 10 Mln for all regions. If still less than that the minimum number of stocks pass the liquidity screening, the ADTV threshold is decreased stepwise by 10% for all regions.

Additionally, in each region, a minimum number of companies must pass the dividend screening. If in any region, the minimum number of stocks is not reached, the dividend threshold is reduced by 20% for all regions. If still less than that the minimum number of stocks pass the dividend screening, the dividend threshold is decreased stepwise by 10% for all regions.

Region	Minimum number of stocks
Asia/Pacific	5
North America	10
Europe	15

All stocks that pass the screenings are ranked according to their gross dividend yield in descending order.

Component selection: The highest ranked 5 companies from Asia/Pacific, 10 from North America and 15 from Europe are selected. To complete the index, the next highest ranked 20 companies across all regions are selected while applying the following constraints:

- a maximum number of stocks per region as defined below,
- a maximum number of stocks per ICB industry (15).

Region	Maximum number of stocks
Asia/Pacific	15
North America	30
Europe	35

If the set of constrains prevent the methodology to select 50 stocks, the index is completed by the companies with the highest gross dividend yield that did not go through the dividend screening.

Review frequency: The reviews are conducted on a quarterly basis.

Weighting cap factors: All components are weighted according to the inverse of their 1-year historical volatility with a minimum weight of 0.5% and a maximum weight of 4%.

$$\text{Weighting factor} = \frac{\text{weight in percentage} \times 100{,}000{,}000{,}000}{\text{price in EUR}}$$

7. iSTOXX ESG SELECT INDICES

7.4.3. ONGOING MAINTENANCE

Replacements: Deleted companies are replaced by the next one in the selection list. During review implementation month the process laid out in section 3.4. of the iSTOXX Methodology Guide will be applied.
If a company is excluded from the parent index (the STOXX Global ESG Leaders), this company should also be excluded from the index and replaced by the next one in the selection list while meeting the minimum and maximum number of constituents per region and industry. The company entering the index gets the weight of the company leaving the index.

Fast exit: Following the STOXX Global ESG Leaders rules.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

8. iSTOXX QUALITY INCOME INDICES

8.1. iSTOXX EUROPE QUALITY INCOME UH INDEX

8.1.1. OVERVIEW

The iSTOXX Europe Quality Income UH Index aims to capture the performance of shares which offer attractive and sustainable dividend yields.

Universe: STOXX Europe 600 ex Financials. Following the introduction of the new ICB classification that separates Real Estate from Financials Industry, and in order to retain the representation of the originally intended economic reality, effective with September 2020 Review, an additional filter excluding ICB Industry Real Estate (ICB code: 35) will be applied.

Weighting scheme: Price weighted with a weighting factor to achieve an equally weighting

Base values and dates: 100 as of Dec 31, 2004

Index types and currencies: Price, net return and gross return in EUR and USD.

8.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last trading day of the month preceding the rebalancing date.
At cutoff date, for each stock of the universe, a Quality Score and Balance Sheet Risk Score are calculated as following.

The quality score is defined as the number of criteria that a company meets and can range from 0 to 9:

- Return On Assets (ROA) greater than or equal to zero. The ROA is calculated as the net income before extraordinary items divided by total assets

$$\mathrm{ROA}_{t_0} = \frac{\text{net income before extraordinary items}_{t_0}}{\text{total assets}_{t_0}}$$

- CFO ratio greater than or equal to zero. The ratio is calculated as Cash Flow from Operation (CFO) divided by total assets

$$\text{CFO Ratio}_{t_0} = \frac{\text{cash flow from operation}_{t_0}}{\text{total assets}_{t_0}}$$

- Accruals less than or equal to zero. Accruals are calculated as ROA minus CFO Ratio

$$\mathrm{Accruals}_{t_0} = \mathrm{ROA}_{t_0} - \text{CFO Ratio}_{t_0}$$

- Positive or zero 1-year growth in ROA (1YΔROA)

$$1\mathrm{Y}\Delta\mathrm{ROA}_{t_0} = \mathrm{ROA}_{t_0} - \mathrm{ROA}_{t_{-1}}$$

- Negative or zero 1-year growth in Leverage (1YΔLev). The Leverage is calculated as the long-term debts divided by standardized total assets

$$\mathrm{Leverage}_{t_0} = \frac{\text{long term debts}_{t_0}}{0.5 \times \text{total assets}_{t_0} + 0.5 \times \text{total assets}_{t_{-1}}}$$

$$1\mathrm{Y}\Delta\mathrm{Lev}_{t_0} = \mathrm{Leverage}_{t_0} - \mathrm{Leverage}_{t_{-1}}$$

8. iSTOXX QUALITY INCOME INDICES

- Positive or zero 1-year growth in Liquidity Ratio (1YΔLR). The LR is calculated as the ratio of current assets to current liabilities (also called current ratio)

$$1Y\Delta LR_{t_0} = \text{current ratio}_{t_0} - \text{current ratio}_{t_{-1}}$$

- 1-year growth in the Number of Shares Outstanding (1YΔNBO) less than or equal to 5%[3].

$$1Y\Delta NBO_{t_0} = \frac{\text{number of shares outstanding}_{t_0}}{\text{number of shares outstanding}_{t_{-1}}} - 1$$

- Positive or zero 1-year growth in the Gross Operating Margin (1YΔGOM). The GOM is calculated as the ratio of Gross Incomes to Sales.

$$GOM_{t_0} = \frac{\text{gross income}_{t_0}}{\text{sales}_{t_0}}$$

$$1Y\Delta GOM_{t_0} = GOM_{t_0} - GOM_{t_{-1}}$$

- Positive or zero 1-year growth in the Asset Turnover (1YΔAT). The AT is calculated as the ratio of sales to total assets.

$$AT_{t_0} = \frac{\text{sales}_{t_0}}{\text{total assets}_{t_0}}$$

$$1Y\Delta AT_{t_0} = AT_{t_0} - AT_{t_{-1}}$$

The Balance Sheet Risk Score (or Distance to Default or DD) measures the number of standard deviations between the asset value and the default point. It is calculated as following:

$$\text{Distance to Default} = \frac{\text{assets value} - \text{default point}}{\text{asset Value} \times \text{asset Volatility}}$$

or

$$\text{Distance to Default} = \frac{\ln\left(\frac{A}{F}\right) + \left(r - \frac{\sigma_A^2}{2}\right) \times T}{\sigma_A \times \sqrt{T}}$$

with

$$E = A \times N(d_1) - e^{-rT} \times F \times N(d_2)$$

$$\sigma_E = \frac{A}{E} \times N(d_1) \times \sigma_A$$

$$d_1 = \frac{\ln\left(\frac{A}{F}\right) + \left(r - \frac{\sigma_A^2}{2}\right) \times T}{\sigma_A \times \sqrt{T}} \text{ and } d_2 = d_1 - \sigma_A \times \sqrt{T}$$

$$F = CL + 0.5 \times LTL$$

[3] Hereby last year's Shares Outstanding are adjusted for corporate actions such as splits.

8. iSTOXX QUALITY INCOME INDICES

where,

- A market value of assets,
- Fdefault point,
- r interest rate, i.e. six-month interbank rate,
- Ttime to maturity assumed to be 1
- σA 6-months asset volatility
- E Full market capitalization
- σE 6-months historical volatility
- CL current liabilities
- LTL long term liabilities

Interest rate to be used is*:

- EURIBOR 6-months

(*Interest rates may reflect a broader universe of rates affected by changes in country classification)

If one the nine criteria of the Quality score or the Distance to Default cannot be calculated due to missing data, the company is not eligible for the selection list.

Component selection:

All current components remain in the index if they fulfil the following criteria:

- a Quality Score of 5 or better,
- a Balance Sheet Risk Score ranked within the top 60% of the selection list,
- a 12-month trailing Dividend Yield greater than 3.5%,
- a FFMCAP of at least EUR 700 mln,
- a 6-month ADTV of at least EUR 5 mln

Companies fulfilling the following criteria are selected for being included in the index:

- a Quality Score of 7 or better,
- a Balance Sheet Risk Score ranked within the top 40% of the selection list,
- a 12-month trailing Dividend Yield greater than 4%,
- a Free-Float Market Capitalization (FFMCAP) of at least EUR 1 bln,
- a 6-month Average Daily Traded Volume (ADTV) of at least EUR 5 mln

8. iSTOXX QUALITY INCOME INDICES

In case less than 25 or more than 75 companies are selected for the index an Overall Quality Score is calculated as following:

$$\text{Overall Quality Score} = \text{Quality Score} + 2 \times \text{Balance Sheet Score quintile}$$

If less than 25 companies meet the above criteria the following processes are applied and a new selection list for the remaining, non-eligible companies, is produced:

1. All companies meeting the above criteria are included into the index,
2. The dividend yield threshold is decreased to 3.5%, the FFMCAP threshold is decreased to EUR 700 Mln and the ADTV threshold is decreased to EUR 5 Mln for the remaining companies on the selection list,

3a. If the number of companies meeting the new criteria is less than the number of company needed to increase the number of component to 25, all these companies are included.

3b. If the number of companies meeting the new criteria exceeds the number of company needed to increase the number of component to 25, all these companies are ranked according to their Overall Quality Score and the top companies are included till the index reaches 25 components.

4. If there are less than 25 components in the index, the thresholds are further decreased stepwise by 10% and step 3 is repeated until the index contains 25 companies.

If more than 75 companies meet the criteria,

1. All components already in the index and passing their criteria are selected,
2. All non-components passing the entry criteria are ranked according to their Overall Quality Score,
3. Non-components are added based on their Overall Quality Score until the index contains 75 components. For companies with identical Overall Quality Score, priority is given to the one with the higher dividend yield.

Review frequency: The reviews are conducted on a quarterly basis and implemented on the third Friday in line with the Benchmark reviews.

8.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is not added permanently to the index.

8. iSTOXX QUALITY INCOME INDICES

8.2. iSTOXX EUROPE QUALITY INCOME INDEX

8.2.1. OVERVIEW

The iSTOXX Europe Quality Income index measures the performance of the iSTOXX Europe Quality Income UH Index while at the same time eliminating foreign currency fluctuations though hedging. The indices therefore combine the performance of the underlying index with a hypothetical, rolling investment into one-month foreign exchange forward contracts.

8.2.2. CALCULATION FORMULA

The currency hedged methodology follows a standard portfolio approach when hedging currency risk by writing currency forwards:

$$H_IDX_t = H_IDX_0 \cdot \left[\frac{UH_IDX_t}{UH_IDX_0} + \sum_{c=1}^{C} HR_{c,0} \cdot \left(\frac{FX_{c,0}}{FF_{c,0}} - \frac{FX_{c,0}}{IFF_{c,t}} \right) \right]$$

$$IFF_{c,t} = FX_{c,t} + \left(1 - \frac{t}{T}\right) \cdot \left(FF_{c,t} - FX_{c,t}\right)$$

where:

H_IDX_t = hedged index for day t
UH_IDX_t = unhedged reference index (in hedged currency) for day t
t=0 = last calculation day of preceding month (reset date)
t = day of index calculation / number of calendar days since t=0
T = number of calendar days in current month
C = number of foreign currencies in the unhedged index
$HR_{c,t}$ = hedge ratio of currency c for day t
$FX_{c,t}$ = spot currency rate for day t
$FF_{c,t}$ = 1-month forward currency rate for day t
$IFF_{c,t}$ = interpolated forward currency rate for day t

The hedge ratio can be varied to arrive at index portfolios that are over- and under-hedged to varying degrees. Furthermore, it can be used to hedge multi-currency portfolios:

$$HR^c = \sum_{n=1}^{N_c} w_n$$

where:

N_c = number of constituents with currency c
w_n = weight of constituent n in the reference index

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Decrement indices incorporate a synthetic performance deduction in the index methodology. The performance deduction is expressed in percentage points per annum or index points per annum and accrues on a daily basis (using an Actual/365 Fixed day count convention). The Decrement indices have a floor value of zero.

9.1. EURO iSTOXX CONSTANT & INCREMENT INDICES

9.1.1. OVERVIEW

The EURO iSTOXX Equal Weighted Constant 50 index replicates the returns of an investment into the Underlying Index (gross return versions) with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points being subtracted, the iSTOXX Constant indices are underperforming the standard gross return indices that include a full dividend investment. The iSTOXX Constant Indices perform better than the standard price indices that do not consider dividend investments as long as the overall gross dividend yield of the base indices is greater than the index points being subtracted.

9.1.2. EURO iSTOXX EQUAL WEIGHT INCREMENT 7% INDEX

Base date: 19 November 2014
Base Value: 1000
Underlying Index: EURO STOXX 50 Equal Weight EUR GR
Index Type: Price
Index Currency: EUR

Calculation:

$$IV_t = IV_{t-1}\frac{U_t}{U_{t-1}} - Fix_{t-1}\frac{ACT(t-1,t)}{365}$$

where:

$Fix_t = Fix_{t-1} \cdot 1.07^{\frac{ACT(t-1,t)}{365}}$ for t > 0 (after the base date)
$Fix_t = 38$ for $t \leq 0$ (before the base date)

The parameter 38 reflects a dividend yield of 3.8% at the base date and historically, but increases by 7% annually (accrued on a daily basis).

9.1.3. EURO iSTOXX EQUAL WEIGHT CONSTANT 50 INDEX

Base date: 19 November 2014
Base Value: 1000
Underlying Index: EURO STOXX 50 Equal Weight EUR GR
Decrement Amount (in Index points): 50
Dissemination calendar: STOXX Europe Calendar
Index Type: Price
Index Currency: EUR

Calculation: The EURO iSTOXX Equal Weight Constant 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.1.4. ONGOING MAINTENANCE

All index changes and adjustments of the underlying EURO STOXX 50 Equal Weight index are reflected in the EURO iSTOXX Constant & Increment indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.2. iSTOXX EUROPE MAXIMUM DIVIDEND 8% DECREMENT

9.2.1. OVERVIEW

The iSTOXX Europe Maximum Dividend 8% Decrement replicates the return of an investment into the underlying index (net return versions) with a constant dividend markdown expressed in percentage of the index performance that is subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the iSTOXX Europe Maximum Dividend 8% Decrement index is underperforming the standard net return index that include a net dividend investment. The iSTOXX Europe Maximum Dividend 8% Decrement performs better than the standard price index that does not consider dividend investments as long as the overall net dividend yield of the base indices is greater than the value being subtracted.
The underlying index is the STOXX Europe Maximum Dividend Net Return Index in EUR.

9.2.2. DEFINITIONS

iSTOXX Europe Maximum Dividend 8% Decrement Index
Base date: 20 March 2000
Base Value: 100
Underlying Index: STOXX Europe Maximum Dividend 40 Index (EUR Net Return)
Decrement Amount (in percentage points): 8%
Dissemination calendar: STOXX Europe Calendar
Index Type: Price
Index Currency: EUR

9.2.3. CALCULATION

The iSTOXX Europe Maximum Dividend 8% Decrement Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.3. EURO iSTOXX 50 STYLE WEIGHTED & EURO iSTOXX 50 STYLE WEIGHTED DECREMENT

9.3.1. OVERVIEW

The EURO iSTOXX 50 Style Weighted Index has the same composition as the EURO STOXX 50, but weight its components based on fundamentals data.

Universe: EURO STOXX 50

Weighting scheme: The indices are price-weighted with a weighting factor according to their overall score

Base values and dates: The following base values and dates apply: 100 on March 19, 2001

Index types and currencies:
EURO iSTOXX 50 Style Weighted: Price, Net and Gross Return in EUR
EURO iSTOXX 50 Style Weighted Decrement: Price Return in EUR

9.3.2. INDEX REVIEW

Composition list: The composition of the EURO STOXX 50 is used for the EURO iSTOXX 50 Style Weighted Index on a quarterly basis

Review frequency: The rebalancing of the weights is conducted each quarter with the STOXX Benchmark indices

Weighting cap factors: At cutoff date, for each stock of the EURO STOXX 50, the following scores are calculated:

A Size sub-score, $w_i^S(t)$, where FFMC is the Free-Float Market Capitalization:

$$s_i(t) = -\left(FFMC(t-1) - \overline{FFMC(t-1)}\right)$$

$$S_i(t) = \begin{cases} 1 + s_i(t), & s_i(t) > 0 \\ \dfrac{1}{1 - s_i(t)}, & \text{else} \end{cases}$$

$$w_i^S(t) = \frac{S_i(t)}{\sum S_i(t)}$$

A Value sub-score, $w_i^V(t)$, where PB is the Price to Book Ratio:

$$v_i(t) = -\left(PB(t-1) - \overline{PB(t-1)}\right)$$

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

$$V_i(t) = \begin{cases} 1 + v_i(t), & v_i(t) > 0 \\ \dfrac{1}{1 - v_i(t)}, & \text{else} \end{cases}$$

$$w_i^V(t) = \frac{V_i(t)}{\sum V_i(t)}$$

A Quality sub-score, $w_i^Q(t)$, where ROE is the Return on Equity:

$$q_i(t) = \left(ROE(t-1) - \overline{ROE(t-1)}\right)$$

$$Q_i(t) = \begin{cases} 1 + q_i(t), & q_i(t) > 0 \\ \dfrac{1}{1 - q_i(t)}, & \text{else} \end{cases}$$

$$w_i^Q(t) = \frac{Q_i(t)}{\sum Q_i(t)}$$

where,

i	constituent of the EURO STOXX 50
$\bar{x}$	average of *x* for all constituents of the EURO STOXX 50

The overall score, $w_i(t)$, is calculated as following:

$$w_i(t) = \frac{w_i^Q(t) + w_i^V(t) + w_i^S(t)}{3}$$

The components of the index are sorted in a descending way according to their score $w_i(t)$ and divided into 5 groups of 10 stocks.

Each constituent of the same group get the same weight as described in the following table:

From rank	To rank	Weight
1	10	5%
11	20	2.5%
21	30	1.5%
31	40	0.75%
41	50	0.25%

Weighting factor = weight * (1,000,000,000 / closing price of the stock in EUR), rounded to integers.

The weighting factors are published on the second Friday in March, one week prior to quarterly review implementation using Thursday's closing prices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.3.3. DERIVED INDICES

The EURO iSTOXX 50 Style Weighted Decrement replicates the return of an investment into the net return version of the EURO iSTOXX 50 Style Weighted Net Return Index (EUR) with a constant dividend markdown expressed in percentage of the index performance (5.5%) that is subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the EURO iSTOXX 50 Style Weighted Decrement Index will underperform the standard EURO iSTOXX 50 Style Weighted Net Return index that includes a net dividend investment.

9.3.3.1. DEFINITIONS

Base value: 100
Base date: 19 March 2001
Underlying Index: EURO iSTOXX 50 Style Weighted Index (EUR Net Return)
Decrement Amount (in percentage points): 5.5%
Dissemination calendar: STOXX Europe Calendar
Index Type: Price
Index Currency: EUR

9.3.3.2. CALCULATION

The EURO iSTOXX 50 Style Weighted Decrement is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide

9.3.4. ONGOING MAINTENANCE

Replacements: Following EURO STOXX 50 rules. In case a company replaced another, the new constituent takes the weight of the previous constituent

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.4. EURO iSTOXX 50, EURO iSTOXX 50 EQUAL WEIGHT AND EURO iSTOXX 50 LOW CARBON DECREMENT INDICES

9.4.1. OVERVIEW

Each of the decrement indices listed below replicates the performance of its respective underlying index, assuming a constant performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the Decrement index underperforms the parent index. A Decrement index applied to an underlying net / gross return index that includes a net / gross dividend reinvestment will perform worse than the underlying index. The Decrement index may perform better than the standard price index that does not consider dividend investments if the dividend yield of the net / gross return underlying index is greater than the decrement being subtracted.

9.4.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
EURO iSTOXX 50 Decrement 4.75%	EURO STOXX 50 Net Return Index	4.75%	1000	STOXX Europe Calendar	31 Dec 1986	Price	EUR
EURO iSTOXX 50 NR Decrement 5%	EURO STOXX 50 Net Return Index	5.00%	1000	STOXX Europe Calendar	31 Dec 1986	Price	EUR
EURO iSTOXX 50 Decrement 5%	EURO STOXX 50 Gross Return Index	5.00%	1000	STOXX Europe Calendar	02 Jan 2001	Price	EUR
EURO iSTOXX 50 Equal Weight NR Decrement 5%	EURO STOXX 50 Equal Weight Net Return Index	5.00%	1000	STOXX Europe Calendar	30 Dec 1999	Price	EUR
EURO iSTOXX 50 Equal Weight Decrement 4.75%	EURO STOXX 50 Equal Weight Net Return Index	4.75%	1000	STOXX Europe Calendar	30 Dec 1999	Price	EUR
EURO iSTOXX 50 Equal Weight Decrement 5%	EURO STOXX 50 Equal Weight Gross Return Index	5.00%	1000	STOXX Europe Calendar	29 Dec 2000	Price	EUR
EURO iSTOXX 50 Low Carbon Decrement 4.75%	EURO STOXX 50 Low Carbon Net Return Index	4.75%	1000	STOXX Europe Calendar	19 Dec 2011	Price	EUR
EURO iSTOXX 50 Low Carbon Decrement 5%	EURO STOXX 50 Low Carbon Gross Return Index	5.00%	1000	STOXX Europe Calendar	19 Dec 2011	Price	EUR
EURO iSTOXX 50 Low Carbon NR Decrement 3.75%	EURO STOXX 50 Low Carbon Net Return Index	3.75%	1000	STOXX Europe Calendar	19 Dec 2011	Price	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.4.3. CALCULATION

The Decrement Indices listed above are each calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.4.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index is reflected in the corresponding Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.5. iSTOXX TRANSATLANTIC 100 EQUAL WEIGHT DECREMENT 50

9.5.1. OVERVIEW

The iSTOXX Transatlantic 100 Equal Weight Decrement index aims to replicate an investment in Euro- and USD- denominated securities, to which a fixed decrement of 50 index points p.a. is applied (using an Actual/365 Fixed day count convention). The USD-denominated portion of the portfolio is converted to Euro.

The iSTOXX Transatlantic 100 Equal Weight Decrement index is constructed by building and then combining several indices:

i. iSTOXX Transatlantic EU 70 EUR (Gross Return)
ii. iSTOXX Transatlantic US 30 USD (Gross Return)
iii. iSTOXX Transatlantic 100 Equal Weight EUR (Gross Return)
iv. iSTOXX Transatlantic 100 Equal Weight Decrement EUR (Price)

Index name	Symbol	Bloomberg ticker	Reuters RIC
iSTOXX Transatlantic EU 70 EUR (Gross Return)	IXTEUGR	IXTEUGR Index	.IXTEUGR
iSTOXX Transatlantic US 30 USD (Gross Return)	IXTUSGV	IXTUSGV Index	.IXTUSGV
iSTOXX Transatlantic US 30 EUR (Gross Return)	IXTUSGR	IXTUSGR Index	.IXTUSGR
iSTOXX Transatlantic 100 Equal Weight EUR (Gross Return)	IXTEWGR	IXTEWGR Index	.IXTEWGR
iSTOXX Transatlantic 100 Equal Weight Decrement EUR (Price)	IXTEWDP	IXTEWDP Index	.IXTEWDP

9.5.2. iSTOXX TRANSATLANTIC EU 70

9.5.2.1. OVERVIEW

Universe: the index is derived from the parent index STOXX Europe 600

Weighting scheme: equal-weighted

Base value: 1000

Base Date: 20 November 2015

Index types and currencies: Gross Return in EUR

9.5.2.2. INDEX REVIEW

Selection list: the composition of the parent index is observed after the respective quarterly review.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Composition list: the largest 70 Eurozone stocks from the STOXX Europe 600 index in terms of free-float market capitalization.

Review frequency: quarterly, in line with the Benchmark indices.

9.5.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9.5.3. iSTOXX TRANSATLANTIC US 30

9.5.3.1. OVERVIEW

Universe: the index is derived from the parent index STOXX North America 600

Weighting scheme: equal-weighted

Base value: 1000

Base Date: 20 November 2015

Index types and currencies: Gross Return in EUR, USD

Dissemination calendar: STOXX Americas calendar

9.5.3.2. INDEX REVIEW

Selection list: the composition of the parent index is observed after the respective quarterly review

Composition list: the largest 30 U.S. stocks from the STOXX North America 600 index in terms of free-float market capitalization

Review frequency: quarterly, in line with the Benchmark indices.

Weighting cap factors: none

9.5.3.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9.5.4. iSTOXX TRANSATLANTIC 100 EQUAL WEIGHT

9.5.4.1. OVERVIEW

The iSTOXX Transatlantic 100 Equal Weight EUR (GR) is a composite index obtained by rebalancing the iSTOXX Transatlantic EU 70 EUR (GR) and iSTOXX Transatlantic US 30 EUR (GR) indices respectively to 70% and 30% on a daily basis.

Dissemination calendar: intersection of the dissemination calendars of the STOXX Europe calendar and the STOXX US Country calendar.

9.5.4.2. INDEX FORMULA

$$IV_t = IV_{t-1} \cdot \sum_{i=1}^{2} w_i \cdot \frac{U_{t,i}}{U_{t-1,i}}$$

w_i = target weight of sub-index i
$U_{t,i}$ = close value of sub-index i on day t
IV_t = value of iSTOXX Transatlantic 100 EUR (GR) index on day t ($IV_{31.12.2004}$ = 413.03)

i	Sub-index name	w_i
1	iSTOXX Transatlantic EU 70 EUR (GR)	0.7
2	iSTOXX Transatlantic US 30 EUR (GR)	0.3

9.5.5. iSTOXX TRANSATLANTIC 100 EQUAL WEIGHT DECREMENT

9.5.5.1. OVERVIEW

The iSTOXX Transatlantic 100 Equal Weight Decrement EUR (P) is obtained by applying a constant decrement of 50 index points p.a. to the iSTOXX Transatlantic 100 Equal Weight EUR (GR) index (using an Actual/365 Fixed day count convention).

9.5.5.2. DEFINITIONS

Base value: 100
Base date: 20 November 2015
Underlying Index: iSTOXX Transatlantic 100 Equal Weight EUR (GR) Index
Decrement Amount (in index points): 50
Dissemination calendar: intersection of the dissemination calendars of the STOXX Europe calendar and the STOXX US Country calendar
Index Type: Price
Index Currency: EUR

9.5.5.3. INDEX CALCULATION

The iSTOXX Transatlantic 100 Equal Weight Decrement EUR (P) is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.6. iSTOXX TRANSATLANTIC ESG 100 EQUAL WEIGHT DECREMENT 50

9.6.1. OVERVIEW

The iSTOXX Transatlantic ESG 100 Equal Weight Decrement index aims to replicate an investment in Euro- and USD- denominated securities, to which a fixed decrement of 50 index points p.a. is applied (using an Actual/365 Fixed day count convention). The USD-denominated portion of the portfolio is converted to Euro.

The iSTOXX Transatlantic ESG 100 Equal Weight Decrement index is constructed by building and then combining several indices:

v. iSTOXX Transatlantic EU ESG 70 EUR (Gross Return)
vi. iSTOXX Transatlantic US ESG 30 USD (Gross Return)
vii. iSTOXX Transatlantic ESG 100 Equal Weight EUR (Gross Return)
viii. iSTOXX Transatlantic ESG 100 Equal Weight Decrement EUR (Price)

Index name	Symbol	Bloomberg ticker	Reuters RIC
iSTOXX Transatlantic ESG 100 Equal Weight Decrement EUR (Price)	IXTEEWDP	IXTEEWDP INDEX	.IXTEEWDP
iSTOXX Transatlantic ESG 100 Equal Weight EUR (Gross Return)	IXTEEWGR	IXTEEWGR INDEX	.IXTEEWGR
iSTOXX Transatlantic EU ESG 70 EUR (Gross Return)	IXTEEUGR	IXTEUSGR INDEX	.IXTEEUGR
iSTOXX Transatlantic EU ESG 70 EUR (Net Return)	IXTEEUR		.IXTEEUR
iSTOXX Transatlantic EU ESG 70 EUR (Price)	IXTEEUP		.IXTEEUP
iSTOXX Transatlantic EU ESG 70 USD (Gross Return)	IXTEEUGV	IXTEEUGV INDEX	.IXTEEUGV
iSTOXX Transatlantic EU ESG 70 USD (Net Return)	IXTEEUV		.IXTEEUV
iSTOXX Transatlantic EU ESG 70 USD (Price)	IXTEEUL		.IXTEEUL
iSTOXX Transatlantic US ESG 30 EUR (Gross Return)	IXTEUSGR	IXTEEUGR INDEX	.IXTEUSGR
iSTOXX Transatlantic US ESG 30 EUR (Net Return)	IXTEUSR		.IXTEUSR
iSTOXX Transatlantic US ESG 30 EUR (Price)	IXTEUSP		.IXTEUSP
iSTOXX Transatlantic US ESG 30 USD (Gross Return)	IXTEUSGV	IXTEUSGV INDEX	.IXTEUSGV
iSTOXX Transatlantic US ESG 30 USD (Net Return)	IXTEUSV		.IXTEUSV
iSTOXX Transatlantic US ESG 30 USD (Price)	IXTEUSL		.IXTEUSL

9.6.2. iSTOXX TRANSATLANTIC EU ESG 70

9.6.2.1. OVERVIEW

Universe: the index is derived from the parent index EURO STOXX

Weighting scheme: equal-weighted

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Base value: 1000

Base Date: 21 September 2009

Index types and currencies: Price, Net and Gross Return in EUR,USD

9.6.2.2. INDEX REVIEW

Selection list: the review cut-off date is the last dissemination day of the month preceding the review month of the index.
Upon this date, the selection list is constructed by filtering out all companies from the parent index that are in contravention of Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics.
To the remaining companies the ESG scores, as calculated by Sustainalytics, are assigned. If for a company this information is not available, an ESG score of 0 is assigned.
The companies are then ranked in descending order in terms of their ESG scores, and the 120 companies with the highest ESG scores are added to the selection list. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the with the highest free-float market capitalization.

Composition list: the largest 70 companies in terms of free-float market capitalization of the selection list are selected for the final composition list.

Review frequency: quarterly, in line with the Benchmark indices.

9.6.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9.6.3. iSTOXX TRANSATLANTIC ESG US 30

9.6.3.1. OVERVIEW

Universe: the index is derived from the parent index STOXX USA 500

Weighting scheme: equal-weighted

Base value: 1000

Base Date: 21 September 2009

Index types and currencies: Price, Net and Gross Return in EUR,USD

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Dissemination calendar: STOXX Americas calendar

9.6.3.2. **INDEX REVIEW**

Selection list: the review cut-off date is the last dissemination day of the month preceding the review month of the index.
Upon this date the selection list is constructed by filtering out all companies from the parent index that are in contravention of Global Standards Screening or are involved in Controversial Weapons activities, as identified by Sustainalytics.
To the remaining companies the ESG scores, as calculated by Sustainalytics, are assigned. If for a company this information is not available, an ESG score of 0 is assigned.
The companies are then ranked in descending order in terms of their ESG scores, and the 200 companies with the highest ESG scores are added to the selection list. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the with the highest free-float market capitalization.

Composition list: the largest 30 companies in terms of free-float market capitalization of the selection list are selected for the final composition list.

Review frequency: quarterly, in line with the Benchmark indices.

Weighting cap factors: none

9.6.3.3. **ONGOING MAINTENANCE**

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9.6.4. iSTOXX TRANSATLANTIC ESG 100 EQUAL WEIGHT

9.6.4.1. **OVERVIEW**

The iSTOXX Transatlantic ESG 100 Equal Weight EUR (GR) is a composite index obtained by rebalancing the iSTOXX Transatlantic EU ESG 70 EUR (GR) and iSTOXX Transatlantic US ESG 30 EUR (GR) indices respectively to 70% and 30% on a daily basis.

Base value: 1010
Base date: 2 January 2018
Dissemination calendar: intersection of the dissemination calendars of the STOXX Europe calendar and the STOXX US Country calendar.

9.6.4.2. **INDEX FORMULA**

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

$$IV_t = IV_{t-1} \cdot \sum_{i=1}^{2} w_i \cdot \frac{U_{t,i}}{U_{t-1,i}}$$

w_i = target weight of sub-index i
$U_{t,i}$ = close value of sub-index i on day t
IV_t = value of iSTOXX Transatlantic ESG 100 EUR (GR) index on day t ($IV_{21.09.2009}$ = 406.59)

i	Sub-index name	w_i
1	iSTOXX Transatlantic EU ESG 70 EUR (GR)	0.7
2	iSTOXX Transatlantic US ESG 30 EUR (GR)	0.3

9.6.5. iSTOXX TRANSATLANTIC ESG 100 EQUAL WEIGHT DECREMENT

9.6.5.1. OVERVIEW

The iSTOXX Transatlantic ESG 100 Equal Weight Decrement EUR (P) is obtained by applying a constant decrement of 50 index points p.a. to the iSTOXX Transatlantic ESG 100 Equal Weight EUR (GR) index (using an Actual/365 Fixed day count convention).

9.6.5.2. DEFINITIONS

Base value: 1010
Base date: 2 January 2018
Underlying Index: iSTOXX Transatlantic ESG 100 Equal Weight EUR (GR) Index
Decrement Amount (in index points): 50
Dissemination calendar: intersection of the dissemination calendars of the STOXX Europe calendar and the STOXX US Country calendar
Index Type: Price
Index Currency: EUR

9.6.5.3. INDEX CALCULATION

The iSTOXX Transatlantic ESG 100 Equal Weight Decrement EUR (P) is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.7. iSTOXX SMART QUALITY MOMENTUM VALUE DECREMENT 50

Index name	Symbol	Bloomberg ticker
iSTOXX Quality Momentum Value EUR (Gross Return)	IXQMVG	IXQMVG
iSTOXX Quality Momentum Value EUR (Net Return)	IXQMVT	IXQMVT
iSTOXX Quality Momentum Value EUR (Price)	IXQMVE	IXQMVE
iSTOXX Quality Momentum Value USD (Gross Return)	IXQMVS	IXQMVS
iSTOXX Quality Momentum Value USD (Net Return)	IXQMVU	IXQMVU
iSTOXX Quality Momentum Value USD (Price)	IXQMVK	IXQMVK
iSTOXX Quality Momentum Value Decrement 50 EUR (Price)	IXQMVD50	IXQMVD50

9.7.1. OVERVIEW

The iSTOXX Smart Quality Momentum Value Decrement 50 index aims to replicate an investment the iSTOXX Smart Quality Momentum Value with a decrement of 50 index points p.a., accruing on a daily basis (using an Actual/365 Fixed day count convention).

9.7.2. iSTOXX SMART QUALITY MOMENTUM VALUE

9.7.2.1. OVERVIEW

The index replicates an investment in a subset of the EURO STOXX 50 index constituents. The stocks are screened based on the basis of a combined value-momentum-quality metric. The eligible stocks are ordered by their combined metric and divided into three equally-sized groups. The stocks in the first group will be equally-weighted to reach a total weight of 66.66%, those in the second group will be equally-weighted to reach a total weight of 33.33%, while those in the third group will not be part of the index.

Universe: The index universe is defined by the parent index EURO STOXX 50 as of the cut-off date.

Weighting scheme: the index is price-weighted with weighting factors.

Base values and dates: The following base values and dates apply: 1,000 on 19 Nov 2014.

Index types and currencies: Price, Net return, Gross return in EUR and USD.

9.7.2.2. INDEX REVIEW

Selection list:

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Stocks in the reference universe undergo three screenings and accordingly receive three ranks: Momentum Rank, Value Rank, Quality Rank.

For each stock i, a Final Rank is computed as sum of the three ranks:

$$FinalRank_i = MomentumRank_i + QualityRank_i + ValueRank_i$$

The selection list is composed of the stocks for which a Final Rank can be calculated, as described in the following procedure.

For all three Screenings the following apply:

a. Any missing score is set to 0
b. Any missing rank is set to 50

The three screenings are performed as follows:

1. Momentum Screening

For each ith stock, a 6-month momentum metric is calculated as:

$$Momentum_{i,t_0} = \frac{Return_{i,t_0}}{Volatility_{i,t_0}}$$

$$Return_{i,t_0} = \frac{p_{i,t_0-6m}}{p_{i,t_0-12m}} - 1$$

$$Volatility_{i,t_0} = \sqrt{\frac{252}{n-1} \sum_{\tau=t_0-6m}^{t_0} \left(r_{i,\tau} - \bar{r}_{i,[t_0-6m,\, t_0]}\right)^2}$$

where:

t_0	cut-off date
$p_{i,t-m}$	price of stock i observed m months before t
$r_{i,t}$	$\frac{p_{i,t}}{p_{i,t-1}} - 1$
$\bar{r}_{i,[t_1,t_2]}$	$\frac{1}{t_2-t_1} \cdot \sum_{\tau=t_1}^{t_2} r_{i,t}$

All stocks are sorted by their $Momentum_{i,t}$ in descending order: the resulting rank of each ith stock is defined as its $MomentumRank_i$.

2. Quality Screening

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

For each stock i, a Piotroski score and a Merton score are calculated. The Quality score is then calculated as:

$$QualityScore_i = PiotroskiScore_i + 2 \cdot MertonScore_i$$

a. Piotroski Score

Stocks are assessed against nine metrics and are assigned one point for each criterion they meet with respect to those metrics. The Piotroski Score of a stock is the aggregated number of attained points: it can thus range from 0 (no criterion met) to 9 (all criteria met).

The criteria are:

i. Return on Asset must be non-negative:

$$RoA_{i,t_0} = \frac{\text{Net Income before Extraordinary Items}_{i,t_0}}{\text{Total Assets}_{i,t_0}}$$

ii. Cash-flows from Operations to Total Asset ratio must be non-negative:

$$CFOTA_{i,t_0} = \frac{\text{Cash-flows from Operations}_{i,t_0}}{\text{Total Assets}_{i,t_0}}$$

iii. Accruals must be non-positive:

$$Acc_{i,t_0} = RoA_{i,t_0} - CFOTA_{i,t_0}$$

iv. One-year growth in Return on Asset must be non-negative:

$$1Y\Delta ROA_{i,t_0} = ROA_{i,t_0} - ROA_{i,t_0-12m}$$

v. One-year growth in Leverage must be non-positive:

$$1Y\Delta Lev_{i,t_0} = Lev_{i,t_0} - Lev_{i,t_0-12m}$$

where:

$$Lev_{i,t} = \frac{2 \cdot \text{Long Term Debt}_{i,t}}{\text{Total Assets}_{i,t} + \text{Total Assets}_{i,t-12m}}$$

vi. One-year growth in Liquidity Ratio must be non-negative:

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

$1Y\Delta LR_{i,t_0}=CR_{i,t_0}-CR_{i,t_0-12m}$

where:

$$CR_{i,t}=\frac{\text{Current Assets}_{i,t}}{\text{Current Liabilities}_{i,t}}$$

vii. One-year growth in Number of Shares Outstanding must not exceed 5%:

$$1Y\Delta NBO_{i,t_0}=\frac{\text{Number of Shares Outstanding}_{i,t_0}}{\text{Number of Shares Outstanding}_{i,t_0-12m}}-1$$

viii. One-year growth in Gross Operating Margin must be non-negative:

$1Y\Delta GOM_{i,t_0}=GOM_{i,t_0}-GOM_{i,t_0-12m}$

where:

$$GOM_{i,t}=\frac{\text{Gross Income}_{i,t}}{\text{Sales}_{i,t}}$$

ix. One-year growth in Asset Turnover must be non-negative:

$1Y\Delta AT_{i,t_0}=AT_{i,t_0}-AT_{i,t_0-12m}$

where:

$$AT_{i,t}=\frac{\text{Sales}_{i,t}}{\text{Total Assets}_{i,t}}$$

b. <u>Merton Score</u>

The Distance to Default of each stock is calculated and the stocks are grouped in quintiles. Each stock is assigned a score (the Merton Score) based on its quintile, ranging from a score of 0 for the quintile with the lowest Distance to Default to a score of 4 for the quintile with the highest distance to default.

According to Merton's Distance to Default model, the market value of a firm's stock is equivalent to the value of a European Call on the firm's assets struck at the firm's debt level:

$E_{i,t_0}=A_{i,t_0}\cdot N(d_1)-D_{i,t_0}\cdot e^{-r\tau}\cdot N(d_2)$

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

The volatility $\sigma_{A_{i,t_0}}$ of the firm's total assets value can be obtained from its relationship with the volatility $\sigma_{E_{i,t_0}}$ of firm's stock:

$$\sigma_{E_{i,t_0}} \cdot E_{i,t_0} = \frac{\partial E}{\partial A} \cdot \sigma_{A_{i,t_0}} \cdot A_{i,t_0} = N(d_1) \cdot \sigma_{A_{i,t_0}} \cdot A_{i,t_0}$$

The Distance to Default is then $DtD_{i,t_0} = d_2$ (with associated default probability $\pi_{i,t_0} = N(-DtD_{i,t_0})$),

where:

t_0	cut-off date
τ	period of time over which the Distance to Default is estimated, expressed as year fraction (1)
r	discount rate (6m EURIBOR)
$A_{i,t}$	total value of firm's assets i on day t
$D_{i,t}$	face value of firm's debt on day t: $D_{i,t} = \text{Current Liabilities}_{i,t} + \frac{1}{2} \cdot \text{LT Liabilities}_{i,t}$
$\sigma_{x_{i,t}}$	volatility of variable x over the six-month period [t-6, t]
N(x)	cumulative standard normal distribution of x
d_1	$\frac{\ln\left(\frac{A_{i,t_0}}{D_{i,t_0}}\right) + \left(r_{t_0} + \frac{1}{2} \cdot \sigma^2_{A_{i,t_0}}\right) \cdot \tau}{\sigma_{A_{i,t_0}} \cdot \sqrt{\tau}}$
d_2	$d_1 - \sigma_{A_{i,t_0}} \cdot \sqrt{\tau}$

All stocks are sorted by their $QualityScore_{i,t}$ in descending order: the resulting rank of each stock i is defined as its $QualityRank_i$.

3. Value Screening

For each stock i, a value metric is calculated as:

$$ValueRank_i = \frac{5}{7} \cdot RawValueRank_i + \frac{2}{7} \cdot ModifiedQualityRank_i$$

The $RawValueRank_i$ is calculated as the average of a stock's available rankings in the following five pure value factors:

i. Book to Price
$BP_i = BP_{i,t_0} - median_{ICB=ICB_i}(BP_{ICB,t_0})$

ii. Earnings to Price

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

$EP_i = EP_{i,t_0} - median_{ICB=ICB_i}\left(EP_{ICB,t_0}\right)$

iii. 12 month forward Earnings to Price
$FEP_i = FEP_{i,t_0} - median_{ICB=ICB_i}\left(FEP_{ICB,t_0}\right)$

iv. EBITDA to Enterprise Value
$EBITDAEV_i = EBITDAEVBP_{i,t_0} - median_{ICB=ICB_i}\left(EBITDAEV_{ICB,t_0}\right)$

v. Free Cash Flow to Price
$FCFP_i = FCFP_{i,t_0} - median_{ICB=ICB_i}\left(FCFP_{ICB,t_0}\right)$

where:
$median_{ICB=ICB_i}(x_t)$ median value of factor x on day t within the ICB Industry of stock i.

Factors (iv) and (v) are not taken into account for Financials (Effective up until September 2020 review ICB as identified by code 8000. Effective with September 2020 review ICB as identified by code 30 and 35).

All stocks are sorted in descending order according to their pure factor metrics.

The $ModifiedQualityRank_i$ is obtained by ranking the stocks in descending order according to their $ModifiedQualityScore_i$:

$$ModifiedQualityScore_i = \begin{cases} 4 \cdot LowVolScore_i \text{ if } ICB_i = 8000 \text{(Effective with September 2020 review ICB code 30 and 35)} \\ QualityScore_i \text{ otherwise} \end{cases}$$

The $LowVolScore_i$ of a stock is represented by the quintile it belongs to, ranging from a score of 0 for the quintile with the highest volatility to a score of 4 for the quintile with the lowest volatility, where a stock's volatility is given by its $Volatility_{i,t_0}$.

Composition list: The stocks in the selection list are divided in three groups, based on their Final Rank resulting from the selection process:

Group 1: the 17 stocks with best (i.e.lowest) Final Rank (if more stocks have the same rank as the stock with the highest rank selected, they will all be included).

Group 2: the 17 stocks with lowest Final Rank after those in Group 1 (if more stocks have the same rank as the stock with the highest rank selected, they will all be included).

Group 3: any remaining stock not included in Group 1 or Group 2. These stocks are excluded from the index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Review frequency: The reviews are conducted on a monthly basis, implemented on the third Friday of the month and effective on the following Monday. The cut-off date is defined as the Friday prior the index review date.

Weighting factors: Constituents are weighted according to the Group they have been assigned to:

Group 1: The stocks within Group 1 are equal-weighted to achieve an aggregated weight of 2/3.

Group 2: The stocks within Group 2 are equal-weighted to achieve an aggregated weight of 1/3.

9.7.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Standard STOXX rules apply.

Mergers and takeovers: Standard STOXX rules apply.

Corporate Actions: Standard STOXX rules apply.

9.7.3. iSTOXX SMART QUALITY MOMENTUM VALUE DECREMENT 50

9.7.3.1. OVERVIEW

The iSTOXX Smart Quality Momentum Value Decrement 50 index applies a decrement of 50 index points per annum, accruing on a daily basis (using an Actual/365 Fixed day count convention), to the iSTOXX Smart Quality Momentum Value index.

9.7.3.2. DEFINITIONS

Base value: 1000
Base date: 19 November 2014
Underlying Index: iSTOXX Smart Quality Momentum Value EUR (GR) index
Decrement Amount (in index points): 50
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: EUR

9.7.3.3. CALCULATION

The iSTOXX Smart Quality Momentum Value Decrement 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.8. EURO iSTOXX 60 EQUAL WEIGHT DECREMENT 4.5% AND EURO iSTOXX 70 EQUAL WEIGHT DECREMENT 5% INDICES

9.8.1. OVERVIEW

The Decrement Index (see table below) replicates the return of an investment into the Underlying Index (see table below) with a constant dividend markdown expressed in percentage of the index performance that is subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the Decrement Index is underperforming the standard net / gross return index that include a net / gross dividend investment. The Decrement Index may perform better than the standard price index that does not consider dividend investments if the overall net / gross dividend yield of the Underlying Index is greater than the value being subtracted.

9.8.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
EURO iSTOXX 60 Equal Weight Decrement 4.5%	EURO iSTOXX 60 Equal Weight Net Return Index	4.50%	1000	STOXX Europe Calendar	19 Nov 2014	Price	EUR
EURO iSTOXX 70 Equal Weight Decrement 5%	EURO iSTOXX 70 Equal Weight Net Return Index	5.00%	1000	STOXX Europe Calendar	19 Nov 2014	Price	EUR

9.8.3. CALCULATION

The EURO iSTOXX 60 Equal Weight Decrement 4.5% and EURO iSTOXX 70 Equal Weight Decrement 5% indices are calculated according to the STOXX Decrement Section of the STOXX Strategy Guide.

9.8.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index is reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.9. iSTOXX NORDIC ESG DECREMENT 4.5%

9.9.1. OVERVIEW

The iSTOXX Nordic ESG DW Decrement 4.5% index replicates the performance of the iSTOXX Nordic ESG DW Gross Return SEK index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).
Consequently, due to the percentage of performance being subtracted, the decrement index is underperforming the standard gross return index. The decrement index may perform better than the standard price index that does not consider dividend investments as long as the overall gross dividend yield of the Underlying Index is greater than the value being subtracted.

9.9.2. iSTOXX NORDIC ESG DW

9.9.2.1. OVERVIEW

The iSTOXX Nordic ESG DW index aims to select Nordic companies that qualify as global sustainability leaders and do not engage in controversial business activities. The components are weighted according to their 12-month historical dividend yield.

Universe: The index universe is defined by all Nordic stocks from the Global ESG Leaders index.

Weighting scheme: The indices are price-weighted with a weighting factor based on the historical 12-month dividend yield

Base values and dates: The following base values and dates apply: 100 on 22 March 2004

For a complete list please consult the data vendor code sheet on the website[4]. Customized solutions can be provided upon request.

9.9.2.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index.

All stocks from Nordic countries (Denmark, Finland, Norway and Sweden) that are components of the STOXX Global ESG Leaders Index compose the base universe.

The STOXX Global ESG Leaders Index is based on the STOXX Global 1800 and comprises all components that are part of at least one of the ESG specialized indices (STOXX Global ESG Environmental Leaders, STOXX Global ESG Social Leaders and STOXX Global ESG

[4] http://www.STOXX.com/download/indices/vendor_codes.xls

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Governance Leaders). In the ESG approach, each company has a rating for environmental, social and governance sustainability; these ESG-criteria are normalized using a percent ranking. To be a member of one of the ESG specialized index, an eligible company must belong to the best 25% in one of the ESG-criteria and in the best 50% in the two other ESG-criteria. Thus, components of the STOXX Global ESG Leaders index belong to the best 25th percentile in at least one criterion and to the top 50% in all three criteria.

If there are less than 10 Nordic stocks in the STOXX Global ESG Leaders, the base universe is completed with the stocks from the STOXX Global 1800 eligible for at least one of the ESG specialized indices with the best overall ESG Rating until it reaches 10 constituents, exclusion steps 1 and 2 are then omitted. The overall ESG Rating is defined as:

$$R_i = \frac{1}{n}\sum_{j=1}^{n} NormScore_{i,j}$$

Where:
$NormScore_{i,j}$ percentilized rating of company i in criteria j (j=E, S or G)
n Number of criteria (n=3)

For more information on the ESG approach, please consult the STOXX ESG Index Methodology guide on the website[5].

Exclusion step 1: companies engaged in controversial business activities according to Bank J. Safra Sarasin's classification (AGTAFA) are excluded. According to this criterion, a company is classified as AGTAFA if it generates more than 5% of its revenues from activities related to Alcohol, Gambling, Tobacco, Armaments & Firepower and Adult entertainment. If less than 10 companies fulfil this criterion, exclusion steps 1 and 2 are omitted.

Exclusion step 2: companies that have not paid dividends in the last 12 months, in addition to companies for which dividend information is not available at the review cut-off date, are excluded. If less than 10 companies fulfil these criteria, exclusion step 2 is omitted.

Composition list: All remaining stocks are selected for inclusion.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors: The weighting factors are calculated based on their 12-month trailing dividend yield.
The weights are based on the prices of the Thursday prior to the second Friday of the review month:

$$w_i = \frac{dy_i}{\sum_{j=1}^{N} dy_j}$$

[5] https://www.stoxx.com/document/Indices/Common/Indexguide/stoxx_esg_guide.pdf

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

w_i target weight of component (i)
N number of constituents
dy_i trailing 12-month gross dividend yield of component (i) as of review cut-off date. If a company has a dividend yield of 0 or missing, it is attributed the lowest non-zero dividend yield among all selected components in order to calculate its weight

Weighting cap factor = (1,000,000,000 x target weight / closing price of the stock in EUR), rounded to integers

Additionally, components are capped at a maximum weight of 15%.

9.9.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.
Fast entry: Not applicable.
Spin-offs: Spin-off stocks are not added permanently.
Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

9.9.3. iSTOXX NORDIC ESG DW DECREMENT 4.5%

9.9.3.1. OVERVIEW

The iSTOXX Nordic ESG DW Decrement 4.5% index replicates the performance of the iSTOXX Nordic ESG DW Gross Return SEK index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

9.9.3.2. DEFINITIONS

Base value: 100
Base date: 22 March 2004
Underlying Index: The iSTOXX Nordic ESG DW SEK GR Index
Decrement Amount (in percentage points): 4.5%
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: SEK

9.9.3.3. CALCULATION

The iSTOXX Nordic ESG DW Decrement 4.5% index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.10. iSTOXX EUROPE ORIGIN 100 EQUAL WEIGHT DECREMENT 5%

9.10.1. OVERVIEW

The iStoxx Europe Origin 100 Equal Weight Decrement 5% index replicates the performance of the iStoxx Europe Origin 100 Equal Weight Net Return index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).
Consequently, due to the percentage of performance being subtracted, the decrement index is underperforming the standard net return index.
The Underlying Index is the iStoxx Europe Origin 100 Equal Weight Net Return Index.

9.10.2. DEFINITIONS

Base value: 100
Base date: 24 September 2007
Underlying Index: iStoxx Europe Origin 100 Equal Weight Net Return index
Decrement Amount (in percentage points): 5%
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: EUR

9.10.3. CALCULATION

The iStoxx Europe Origin 100 Equal Weight Decrement 5% index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.10.4. MARKET DISRUPTION EVENTS

As per Stoxx standards

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.11. iSTOXX WORLD TOP 200 EQUAL WEIGHT DECREMENT 50 INDEX

9.11.1. OVERVIEW

The iSTOXX World Top 200 Equal Weight Decrement 50 index replicates the returns of an investment into the underlying index with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention).
Consequently, due to the index points being subtracted, the iSTOXX World Top 200 Equal Weight Decrement 50 index is underperforming the standard gross return indices that include a full dividend investment.

Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe Regional calendar, STOXX Japan Country calendar, STOXX US Country calendar, STOXX Hong Kong Country calendar, STOXX Switzerland Country calendar and STOXX UK Country calendar.

9.11.2. DEFINITIONS

Base value: 1120
Base date: 24 November 2017
Underlying Index: iSTOXX World Top 200 Equal Weight Gross Return Index in EUR
Decrement Amount (in index points): 50
Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe Regional calendar, STOXX Japan Country calendar, STOXX US Country calendar, STOXX Hong Kong Country calendar, STOXX Switzerland Country calendar and STOXX UK Country calendar.
Index Type: Price
Index Currency: EUR

9.11.3. CALCULATION

The iSTOXX World Top 200 Equal Weight Decrement 50 index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.12. EURO iSTOXX BANKS GR DECREMENT 50 INDICES

9.12.1. OVERVIEW

The EURO iSTOXX Banks GR Decrement 50 indices replicate the returns of an investment into the underlying index with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention).
Consequently, due to the index points being subtracted, the EURO iSTOXX Banks GR Decrement 50 indices are underperforming the standard gross return indices that include a full dividend investment.

9.12.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in index points)	Base value	Calendar	Base date	Index Type	Index Currency
EURO iSTOXX Banks GR Decrement 50 Index	EURO STOXX Banks Gross Return Index	50	1000	STOXX Europe Calendar	1 February 2018	Price	EUR
EURO iSTOXX Banks GR Decrement 50 Series 2 Index	EURO STOXX Banks Gross Return Index	50	825	STOXX Europe Calendar	11 March 2021	Price	EUR

9.12.3. CALCULATION

The EURO iSTOXX Banks GR Decrement 50 indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.13. iSTOXX DIVERSITY IMPACT SELECT 30 NR DECREMENT 5% INDICES

9.13.1. OVERVIEW

The iSTOXX Diversity Impact Select 30 NR Decrement 5% indices replicate the performance of the iSTOXX Diversity Impact Select 30 indices assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance being subtracted, the decrement index is underperforming the standard net return index.

9.13.1. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
iSTOXX Europe Diversity Impact Select 30 NR Decrement 5%	iSTOXX Europe Diversity Impact Select 30 Net Return Index	5.0%	100	STOXX Europe Calendar	21 Sep 2009	Price	EUR
iSTOXX Global Diversity Impact Select 30 NR Decrement 5%	iSTOXX Global Diversity Impact Select 30 Net Return Index	5.0%	100	STOXX Europe Calendar	21 Sep 2009	Price	EUR

9.13.2. CALCULATION

The iSTOXX Global Diversity Impact Select 30 NR Decrement 5% Index and the iSTOXX Europe Diversity Impact Select 30 NR Decrement 5% Index are calculated according to the STOXX Decrement Section of the STOXX Strategy Guide.

9.13.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.14. EURO iSTOXX 50 ESG FOCUS DECREMENT 5% INDICES

9.14.1. OVERVIEW

The Decrement Index (see table below) replicates the return of an investment into the Underlying Index (see table below) assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the Decrement Index underperforms the standard net/ gross return version of the Underlying index that includes net/ gross dividend investments. The Decrement Index may perform better than the standard price version of the Underlying Index, which does not consider dividend investments, if the overall net/ gross dividend yield of the Underlying index is greater than the value being subtracted.

9.14.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
EURO iSTOXX 50 ESG Focus NR Decrement 5%	EURO iSTOXX 50 ESG Focus Net Return Index	5.0%	100	STOXX Europe Calendar	19 Mar 2012	Price	EUR
EURO iSTOXX 50 ESG Focus GR Decrement 5%	EURO iSTOXX 50 ESG Focus Gross Return Index	5.0%	100	STOXX Europe Calendar	19 Mar 2012	Price	EUR

9.14.3. CALCULATION

The Index Values for the EURO iSTOXX 50 ESG Focus Decrement 5% Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.14.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.15. EURO ISTOXX 25 CHALLENGERS EQUAL WEIGHT NR DECREMENT 5.5% INDEX

9.15.1. OVERVIEW

The EURO iSTOXX 25 Challengers Equal Weight NR Decrement 5.5% Index replicates the performance of the EUR net return version of the EURO iSTOXX 25 Challengers Equal Weight Index assuming a constant 5.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance being subtracted, the EURO iSTOXX 25 Challengers Equal Weight NR Decrement 5.5% Index is underperforming the standard EURO iSTOXX 25 Challengers Equal Weight Net Return index that includes a net dividend investment.

9.15.2. DEFINITIONS

Base value: 100
Base date: 17 Mar 2006
Underlying Index: EURO iSTOXX 25 Challengers Equal Weight Net Return Index
Decrement amount (in percentage points): 5.5%
Index type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.15.3. CALCULATION

The Index Value for the EURO iSTOXX 25 Challengers Equal Weight NR Decrement 5.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.16. EURO ISTOXX NEXT 30 NR DECREMENT 5% INDEX

9.16.1. OVERVIEW

The EURO iSTOXX Next 30 NR Decrement 5% index replicates the performance of the EURO iSTOXX Next 30 Net Return index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance being subtracted, the decrement index is underperforming the standard net return index.

9.16.2. DEFINITIONS

Base value: 1000
Base date: 20 Sep 2002
Underlying Index: EURO iSTOXX Next 30 Net Return Index
Decrement amount (in percentage points): 5%
Index type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.16.3. CALCULATION

The Index Value for the EURO iSTOXX Next 30 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.17. ISTOXX EUROPEAN 100 GR DECREMENT 50 INDEX

9.17.1. OVERVIEW

The iSTOXX European 100 GR Decrement 50 index replicates the returns of an investment into the underlying index with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention).

Consequently, due to the index points being subtracted, the iSTOXX® European 100 GR Decrement 50 index is underperforming the standard gross return indices that include a full dividend investment.

9.17.2. DEFINITIONS

Base value: 1000
Base date: 19 November 2014
Underlying Index: iSTOXX European 100 Gross Return Index in EUR
Decrement Amount (in index points): 50
Index Type: Price
Index Currency: EUR

Dissemination calendar:
Intersection of the following dissemination calendars: STOXX Europe Regional calendar, STOXX UK Country calendar, STOXX Switzerland Country calendar

9.17.3. CALCULATION

The iSTOXX European 100 GR Decrement 50 index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.18. ISTOXX EUROPE 600 ENERGY EX COAL GR DECREMENT 50 INDEX

9.18.1. OVERVIEW

The iSTOXX Europe 600 Energy ex Coal GR Decrement 50 Index replicates the performance of the STOXX Europe 600 Oil & Gas Gross Return Index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points deduction, the iSTOXX Europe 600 Energy ex Coal GR Decrement 50 Index underperforms the STOXX Europe 600 Oil & Gas Gross Return Index, which includes the gross dividend investments.

9.18.2. DEFINITIONS

Base value: 1000
Base date: 13 September 2018
Underlying Index: STOXX Europe 600 Oil & Gas Gross Return Index in EUR
Decrement Amount (in index points): 50
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.18.3. CALCULATION

The iSTOXX Europe 600 Energy ex Coal GR Decrement 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.18.4. ONGOING MAINTENANCE

All index changes and adjustments of the STOXX Europe 600 Oil & Gas Index are reflected in the iSTOXX Europe 600 Energy ex Coal GR Decrement 50 Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.19. ISTOXX EUROPE 600 REAL ESTATE GR DECREMENT 50 INDEX

9.19.1. OVERVIEW

The iSTOXX Europe 600 Real Estate GR Decrement 50 Index replicates the performance of the STOXX Europe 600 Real Estate Gross Return Index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points deduction, the iSTOXX Europe 600 Real Estate GR Decrement 50 Index underperforms the STOXX Europe 600 Real Estate Gross Return Index, which includes the gross dividend investments.

9.19.2. DEFINITIONS

Base value: 1000
Base date: 19 November 2014
Underlying Index: STOXX Europe 600 Real Estate Gross Return Index in EUR
Decrement Amount (in index points): 50
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.19.3. CALCULATION

The iSTOXX Europe 600 Real Estate GR Decrement 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.19.4. ONGOING MAINTENANCE

All index changes and adjustments of the STOXX Europe 600 Real Estate Index are reflected in the iSTOXX Europe 600 Real Estate GR Decrement 50 Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.20. iSTOXX EUROPE CLIMATE IMPACT EX GC CW & TOBACCO GR DECREMENT 5% INDEX

9.20.1. OVERVIEW

The iSTOXX Europe Climate Impact Ex GC CW & Tobacco GR Decrement 5% Index replicates the performance of the STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Gross Return Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the iSTOXX Europe Climate Impact Ex GC CW & Tobacco GR Decrement 5% Index underperforms the standard STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Gross Return index that includes the gross dividend investments.

9.20.2. DEFINITIONS

Base value: 1000
Base date: 24 December 2012
Underlying Index: STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Gross Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.20.3. CALCULATION

The Index Value for the iSTOXX Europe Climate Impact Ex GC CW & Tobacco GR Decrement 5% is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.20.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.21. iSTOXX EUROPE CLIMATE IMPACT EX GC CW & TOBACCO NR DECREMENT 4.75% INDEX

9.21.1. OVERVIEW

The iSTOXX Europe Climate Impact Ex GC CW & Tobacco NR Decrement 4.75% Index replicates the performance of the STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Net Return index assuming a constant 4.75% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the iSTOXX Europe Climate Impact Ex GC CW & Tobacco NR Decrement 4.75% Index underperforms the standard STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Net Return index that includes the net dividend investments.

9.21.2. DEFINITIONS

Base value: 1000
Base date: 24 December 2012
Underlying Index: STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco Net Return Index in EUR
Decrement amount (in percentage points): 4.75%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.21.3. CALCULATION

The Index Value for the iSTOXX Europe Climate Impact Ex GC CW & Tobacco NR Decrement 4.75% is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.21.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.22. EURO iSTOXX EQUAL INDUSTRY 50 EW NR DECREMENT 5% INDEX

9.22.1. OVERVIEW

The EURO iSTOXX Equal Industry 50 EW NR Decrement 5% Index replicates the performance of the EURO iSTOXX Equal Industry 50 EW Net Return (EUR) Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the EURO iSTOXX Equal Indus-try 50 EW NR Decrement 5% index underperforms the standard EURO iSTOXX Equal Industry 50 EW Net Return (EUR) Index that includes the net dividend investments.

9.22.2. DEFINITIONS

Base value: 1000
Base date: 19 December 2003
Underlying Index: EURO iSTOXX Equal Industry 50 EW Net Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.22.3. CALCULATION

The Index Value for the EURO iSTOXX Equal Industry 50 EW NR Decrement 5% is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.22.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.23. iSTOXX EUROPE 600 ESG-X GR DECREMENT 5% INDEX

9.23.1. OVERVIEW

The iSTOXX Europe 600 ESG-X GR Decrement 5% Index replicates the performance of the STOXX Europe 600 ESG-X Gross Return (EUR) Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the iSTOXX Europe 600 ESG-X GR Decrement 5% Index underperforms the standard STOXX Europe 600 ESG-X Gross Return (EUR) Index that includes the gross dividend investments.

9.23.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: STOXX Europe 600 ESG-X Gross Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.23.3. CALCULATION

The Index Value for the iSTOXX Europe 600 ESG-X GR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.23.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.24. iSTOXX EUROPE 600 ESG-X NR DECREMENT 4.75% INDEX

9.24.1. OVERVIEW

The iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index replicates the performance of the STOXX Europe 600 ESG-X Net Return (EUR) Index assuming a constant 4.75% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index underperforms the standard STOXX Europe 600 ESG-X Net Return (EUR) Index that includes the net dividend investments.

9.24.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: STOXX Europe 600 ESG-X Net Return Index in EUR
Decrement amount (in percentage points): 4.75%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.24.3. CALCULATION

The Index Value for the iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.24.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.25. iSTOXX FRANCE GERMANY BENELUX 60 EQUAL WEIGHT NR DECREMENT 5% INDEX

9.25.1. OVERVIEW

The iSTOXX France Germany Benelux 60 Equal Weight NR Decrement 5% Index replicates the performance of the iSTOXX France Germany Benelux 60 Equal Weight Net Return Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the iSTOXX France Germany Benelux 60 Equal Weight NR Decrement 5% Index underperforms the iSTOXX France Germany Benelux 60 Equal Weight Net Return Index that includes net dividend investments.

9.25.2. DEFINITIONS

Base value: 1000
Base date: 20 June 2008
Underlying Index: iSTOXX France Germany Benelux 60 Equal Weight Net Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

9.25.3. CALCULATION

The Index Value for the iSTOXX France Germany Benelux 60 Equal Weight NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.25.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.26. EURO iSTOXX ENVIRONMENTAL 50 EQUAL WEIGHT NR DECREMENT 5% INDEX

9.26.1. OVERVIEW

The EURO iSTOXX Environmental 50 Equal Weight NR Decrement 5% Index replicates the performance of the EURO iSTOXX Environmental 50 Equal Weight NR Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 5% index underperforms the standard EURO iSTOXX Environmental 50 Equal Weight NR index that includes the net dividend investments.

9.26.2. DEFINITIONS

Base value: 1000
Base date: 19 Mar 2012
Underlying Index: EURO iSTOXX Environmental 50 Equal Weight Net Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.26.3. CALCULATION

The Index Value for the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.26.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.27. EURO iSTOXX ESG LEADERS 50 GR DECREMENT 5% INDEX

9.27.1. OVERVIEW

The EURO iSTOXX ESG Leaders 50 GR Decrement 5% Index replicates the performance of the EURO STOXX ESG Leaders 50 Gross Return (EUR) Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the EURO iSTOXX ESG Leaders 50 GR Decrement 5% Index underperforms the standard EURO STOXX ESG Leaders 50 Gross Return (EUR) Index that includes the gross dividend investments.

9.27.2. DEFINITIONS

Base value: 1000
Base date: 21 September 2001
Underlying Index: EURO STOXX ESG Leaders 50 Gross Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.27.3. CALCULATION

The Index Value for the EURO iSTOXX ESG Leaders 50 GR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.27.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.28. EURO iSTOXX ESG LEADERS 50 NR DECREMENT 5% INDEX

9.28.1. OVERVIEW

The EURO iSTOXX ESG Leaders 50 NR Decrement 5% Index replicates the performance of the EURO STOXX ESG Leaders 50 Net Return (EUR) Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the EURO iSTOXX ESG Leaders 50 NR Decrement 5% Index underperforms the standard EURO STOXX ESG Leaders 50 Net Return (EUR) Index that includes the net dividend investments.

9.28.2. DEFINITIONS

Base value: 1000
Base date: 21 September 2001
Underlying Index: EURO STOXX ESG Leaders 50 Net Return Index in EUR
Decrement amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.28.3. CALCULATION

The Index Value for the EURO iSTOXX ESG Leaders 50 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.28.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.29. EURO iSTOXX 50 GR DECREMENT 3.75% INDEX

9.29.1. OVERVIEW

The EURO iSTOXX 50 GR Decrement 3.75% Index replicates the performance of the EURO STOXX 50 Gross Return (EUR) Index assuming a constant 3.75% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, EURO iSTOXX 50 GR Decrement 3.75% Index underperforms the standard EURO STOXX 50 Gross Return (EUR) Index that includes the gross dividend investments.

9.29.2. DEFINITIONS

Base value: 1000
Base date: 2 January 2001
Underlying Index: EURO STOXX 50 Gross Return Index in EUR
Decrement amount (in percentage points): 3.75%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.29.3. CALCULATION

The Index Value for the EURO iSTOXX 50 GR Decrement 3.75% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.29.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.30. EURO iSTOXX ESG CHOICE 50 EW NR DECREMENT INDICES

9.30.1. OVERVIEW

The EURO iSTOXX ESG Choice 50 EW NR Decrement Indices replicate the performance of the net return version of the EURO iSTOXX ESG Choice 50 EW Index assuming constant performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention). In the case of the EURO iSTOXX ESG Choice 50 EW NR Decrement 4% Index, a 4% annual deduction applies; while for the EURO iSTOXX ESG Choice 50 EW NR Decrement 5% Index, a 5% annual deduction applies.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX ESG Choice 50 EW NR Decrement Indices underperform the EURO iSTOXX ESG Choice 50 EW Net Return Index that includes net dividend investments.

9.30.2. DEFINITIONS

Base value: 1000
Base date: 16 March 2012
Underlying Index: EURO iSTOXX ESG Choice 50 EW Net Return Index in EUR
Decrement Amount (in percentage points): 4% for the EURO iSTOXX ESG Choice 50 EW NR Decrement 4% Index, and 5% for the EURO iSTOXX ESG Choice 50 EW NR Decrement 5% Index
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.30.3. CALCULATION

The index value for the EURO iSTOXX ESG Choice 50 EW NR Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.30.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.31. EURO iSTOXX ESG CORE LEADERS 50 NR DECREMENT 4% INDEX

9.31.1. OVERVIEW

The EURO iSTOXX ESG Core Leaders 50 NR Decrement 4% Index replicates the performance of the net return version of the EURO iSTOXX ESG Core Leaders 50 Index assuming a constant 4% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the EURO iSTOXX ESG Core Leaders 50 NR Decrement 4% Index underperforms the EURO iSTOXX ESG Core Leaders 50 Net Return Index that includes net dividend investments.

9.31.2. DEFINITIONS

Base value: 1000
Base date: 16 March 2012
Underlying Index: EURO iSTOXX ESG Core Leaders 50 Net Return Index in EUR
Decrement Amount (in percentage points): 4%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.31.3. CALCULATION

The index value for the EURO iSTOXX ESG Core Leaders 50 NR Decrement 4% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.31.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.32. EURO iSTOXX EQUAL INDUSTRY ESG 30 NR DECREMENT INDICES

9.32.1. OVERVIEW

The EURO iSTOXX Equal Industry ESG 30 NR Decrement indices replicate the performance of the net return version of the EURO iSTOXX Equal Industry ESG 30 Index assuming constant performance deductions per annum. The performance deductions accrue constantly on a daily basis (using an Actual/365 Fixed day count convention). In the case of the EURO iSTOXX Equal Industry ESG 30 NR Decrement 4% Index, 4% annual deduction applies; while for the EURO iSTOXX Equal Industry ESG 30 NR Decrement 5% Index, 5% annual deduction applies.

Due to the percentage of performance deductions, the EURO iSTOXX Equal Industry ESG 30 NR Decrement indices underperform the standard EURO iSTOXX Equal Industry ESG 30 Net Return (EUR) Index that includes the net dividend investments.

9.32.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: EURO iSTOXX Equal Industry ESG 30 Net Return Index in EUR
Decrement Amount (in percentage points): 4% for the EURO iSTOXX Equal Industry ESG 30 NR Decrement 4% Index and 5% for the EURO iSTOXX Equal Industry ESG 30 NR Decrement 5% Index
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.32.3. CALCULATION

The index values for the EURO iSTOXX Equal Industry ESG 30 NR Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.32.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.33. EURO iSTOXX 50 CARBON ADAPTATION GR DECREMENT 5% INDEX

9.33.1. OVERVIEW

The EURO iSTOXX 50 Carbon Adaptation GR Decrement 5% Index replicates the performance of the gross return version of the EURO iSTOXX 50 Carbon Adaptation Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Carbon Adaptation GR Decrement 5% Index underperforms the EURO iSTOXX 50 Carbon Adaptation Gross Return Index that includes the gross dividend investments.

9.33.2. DEFINITIONS

Base value: 1000
Base date: 19 December 2011
Underlying Index: EURO iSTOXX 50 Carbon Adaptation Gross Return Index in EUR
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.33.3. CALCULATION

The index value for the EURO iSTOXX 50 Carbon Adaptation GR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.33.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.34. iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 DECREMENT INDICES

9.34.1. OVERVIEW

The iSTOXX Global Cities of Tomorrow Select 30 Decrement Indices replicate the performance of the iSTOXX Global Cities of Tomorrow Select 30 Index assuming constant performance deductions per annum. The performance deductions accrue constantly on a daily basis (using an Actual/365 Fixed day count convention). In the case of the iSTOXX Global Cities of Tomorrow Select 30 NR Decrement 5% Index, 5% annual deduction applies on the net return version of the equity index, while for the iSTOXX Global Cities of Tomorrow Select 30 GR Decrement 5.75% Index, 5.75% annual deduction is applied on the gross return version.

Due to the percentage of performance deductions, the iSTOXX Global Cities of Tomorrow Select 30 Decrement indices underperform the corresponding net/gross return versions of the iSTOXX Global Cities of Tomorrow Select 30 (EUR) Index that include the net/gross dividend investments.

9.34.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
iSTOXX Global Cities of Tomorrow Select 30 NR Decrement 5% Index	iSTOXX Global Cities of Tomorrow Select 30 Net Return Index	5.0%	1000	STOXX Europe Calendar	16 June 2012	Price	EUR
iSTOXX Global Cities of Tomorrow Select 30 GR Decrement 5.75% Index	iSTOXX Global Cities of Tomorrow Select 30 Gross Return Index	5.75%	1000	STOXX Europe Calendar	16 June 2012	Price	EUR

9.34.3. CALCULATION

The index values for the iSTOXX Global Cities of Tomorrow Select 30 Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.34.1. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.35. EURO iSTOXX OCEAN CARE 40 DECREMENT 5% INDEX

9.35.1. OVERVIEW

The EURO iSTOXX Ocean Care 40 Decrement 5% Index replicates the performance of the EURO iSTOXX Ocean Care 40 Net Return Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Due to the percentage of performance deduction, the EURO iSTOXX Ocean Care 40 Decrement 5% index underperforms the net return version of the EURO iSTOXX Ocean Care 40 Index that includes the net dividend investments.

9.35.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: EURO iSTOXX Ocean Care 40 Net Return Index in EUR
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.35.3. CALCULATION

The index value for the EURO iSTOXX Ocean Care 40 Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.35.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.36. EURO iSTOXX OCEAN CARE 40 NR DECREMENT 3.5% INDEX

9.36.1. OVERVIEW

The EURO iSTOXX Ocean Care 40 NR Decrement 3.5% Index replicates the performance of the net return version of the EURO iSTOXX Ocean Care 40 Index assuming a constant 3.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX Ocean Care 40 NR Decrement 3.5% Index underperforms the EURO iSTOXX Ocean Care 40 Net Return Index that includes net dividend investments.

9.36.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: EURO iSTOXX Ocean Care 40 EUR Net Return Index
Decrement Amount (in percentage points): 3.5%
Index Type: Price
Index Currency: EUR
Dissemination calendar : STOXX Europe calendar

9.36.3. CALCULATION

The index value for the EURO iSTOXX Ocean Care 40 NR Decrement 3.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.36.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.37. iSTOXX USA OCEAN CARE 40 NR DECREMENT 3.5% INDEX

9.37.1. OVERVIEW

The iSTOXX USA Ocean Care 40 NR Decrement 3.5% Index replicates the performance of the net return version of the iSTOXX USA Ocean Care 40 Index assuming a constant 3.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX USA Ocean Care 40 NR Decrement 3.5% Index underperforms the iSTOXX USA Ocean Care 40 Net Return Index that includes net dividend investments.

9.37.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: iSTOXX USA Ocean Care 40 Net Return Index
Decrement Amount (in percentage points): 3.5%
Index Type: Price
Index Currency: EUR, USD
Dissemination calendar : STOXX Europe calendar

9.37.3. CALCULATION

The index value for the iSTOXX USA Ocean Care 40 NR Decrement 3.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.37.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.38. iSTOXX USA OCEAN CARE 40 NR DECREMENT 5% INDEX

9.38.1. OVERVIEW

The iSTOXX USA Ocean Care 40 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX USA Ocean Care 40 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX USA Ocean Care 40 NR Decrement 5% Index underperforms the iSTOXX USA Ocean Care 40 Net Return Index that includes net dividend investments.

9.38.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: iSTOXX USA Ocean Care 40 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR, USD
Dissemination calendar : STOXX Europe calendar

9.38.3. CALCULATION

The index value for the iSTOXX USA Ocean Care 40 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.38.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.39. EURO iSTOXX ESG WEIGHTED 50 NR DECREMENT 5% INDEX

9.39.1. OVERVIEW

The EURO iSTOXX ESG Weighted 50 NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX ESG Weighted 50 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the EURO iSTOXX ESG Weighted 50 NR Decrement 5% Index underperforms the EURO iSTOXX ESG Weighted 50 Net Return Index that includes net dividend investments.

9.39.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: EURO iSTOXX ESG Weighted 50 Net Return Index in EUR
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.39.3. CALCULATION

The index value for the EURO iSTOXX ESG Weighted 50 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.39.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.40. EURO iSTOXX 50 FUTURES ROLL TR DECREMENT 3% INDEX

9.40.1. OVERVIEW

EURO iSTOXX 50 Futures Roll TR Decrement 3% Index replicates the performance of the net return version of the EURO STOXX 50 Futures Roll Index Index assuming a constant 3% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Futures Roll TR Decrement 3% Index underperforms the EURO STOXX 50 Futures Roll Index Index.

9.40.2. DEFINITIONS

Base value: 1000
Base date: 29 December 2000
Underlying Index: EURO STOXX 50 Futures Roll Index Index in EUR
Decrement Amount (in percentage points): 3%
Index Type: Total Return
Index Currency: EUR

Dissemination calendar: STOXX Eurex Calendar

9.40.3. CALCULATION

The index value for the EURO iSTOXX 50 Futures Roll TR Decrement 3% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.40.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.41. iSTOXX CORE EURO & GLOBAL WATER DECREMENT 5% INDEX

9.41.1. OVERVIEW

The iSTOXX Core Euro & Global Water Decrement 5% Index replicates the performance of the net return version of the iSTOXX Core Euro & Global Water Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the iSTOXX Core Euro & Global Water Decrement 5% Index underperforms the iSTOXX Core Euro & Global Water Net Return Index that includes net dividend investments.

9.41.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index iSTOXX Core Euro & Global Water Net Return Index in EUR
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.41.3. CALCULATION

The index value for the iSTOXX Core Euro & Global Water Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.41.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.42. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE 100 NR DECREMENT 5% INDEX

9.42.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence 100 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX AI Global Artificial Intelligence 100 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the iSTOXX AI Global Artificial Intelligence 100 NR Decrement 5% Index underperforms the iSTOXX AI Global Artificial Intelligence 100 Net Return Index that includes net dividend investments.

9.42.2. DEFINITIONS

Base value: 1000
Base date: 18 March 2013
Underlying Index iSTOXX AI Global Artificial Intelligence 100 Net Return Index in EUR
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.42.3. CALCULATION

The index value for the iSTOXX AI Global Artificial Intelligence 100 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.42.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.43. EURO iSTOXX MEGATRENDS SELECT 30 NR DECREMENT 3% INDEX

9.43.1. OVERVIEW

The EURO iSTOXX Megatrends Select 30 NR Decrement 3% Index replicates the performance of the net return version of the EURO iSTOXX Megatrends Select 30 Index assuming a constant 3% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage of performance deduction, the EURO iSTOXX Megatrends Select 30 Decrement 3% Index underperforms the EURO iSTOXX Megatrends Select 30 Net Return Index that includes net dividend investments.

9.43.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index EURO iSTOXX Megatrends Select 30 Net Return Index in EUR
Decrement Amount (in percentage points): 3%
Index Type: Price
Index Currency: EUR

Dissemination calendar: STOXX Europe calendar

9.43.3. CALCULATION

The index value for the EURO iSTOXX Megatrends Select 30 NR Decrement 3% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.43.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.44. iSTOXX GLOBAL TRANSFORMATION SELECT 30 NR DECREMENT 4.5% INDEX

9.44.1. OVERVIEW

The iSTOXX Global Transformation Select 30 NR Decrement 4.5% Index replicates the performance of the net return version of the iSTOXX Global Transformation Select 30 Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Global Transformation Select 30 NR Decrement 4.5% Index underperforms the iSTOXX Global Transformation Select 30 Net Return Index that includes net dividend investments.

9.44.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index iSTOXX Global Transformation Select 30 Net Return Index
Decrement Amount (in percentage points): 4.5%
Index Type: Price
Index Currency: EUR, USD

Dissemination calendar: STOXX Europe calendar

9.44.3. CALCULATION

The index value for the iSTOXX Global Transformation Select 30 NR Decrement 4.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.44.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.45. iSTOXX GLOBAL FINTECH 30 NR DECREMENT 5% INDICES

9.45.1. OVERVIEW

The iSTOXX Global Fintech 30 NR Decrement 5% indices replicate the performance of the net return versions of the iSTOXX Global Fintech 30 indices assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Global Fintech 30 NR Decrement 5% Indices underperform the iSTOXX Global Fintech 30 Net Return indices that include net dividend investments.

9.45.2. DEFINITIONS

Base value: 1000
Base date: 21 June 2013
Underlying Index iSTOXX Global Fintech 30 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR, USD
Dissemination calendar: STOXX Europe calendar

9.45.3. CALCULATION

The index value for the iSTOXX Global Fintech 30 NR Decrement 5% Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.45.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.46. iSTOXX SELECT DIVIDEND FUTURES ROLL TR DECREMENT INDICES

9.46.1. OVERVIEW

The iSTOXX Select Dividend Futures Roll TR Decrement Indices replicate the performance of some of the STOXX Select Dividend Futures Roll Indices assuming constant performance deductions per annum. The performance deductions accrue constantly on a daily basis.

The EURO iSTOXX Select Dividend 30 Futures Roll TR Decrement 5% Index applies 5% annual deduction on the total return version of the EURO STOXX Select Dividend 30 Futures Roll Index, while the iSTOXX Global Select Dividend 100 Futures Roll TR Decrement 5% Index applies 5% annual deduction on the total return version of the STOXX Global Select Dividend 100 Futures Roll Index.

Due to the percentage of performance deductions, the iSTOXX Select Dividend Futures Roll TR Decrement indices underperform the corresponding total return versions of the STOXX Select Dividend Futures Roll Indices.

9.46.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base date	Index Type	Index Currency
EURO iSTOXX Select Dividend 30 Futures Roll TR Decrement 5% Index	EURO STOXX Select Dividend 30 Futures Roll Total Return Index	5.0%	1000	STOXX Eurex Calendar	12 July 2007	Price	EUR
iSTOXX Global Select Dividend 100 Futures Roll TR Decrement 5% Index	STOXX Global Select Dividend 100 Futures Roll Total Return Index	5.0%	1000	STOXX Eurex Calendar	16 July 2015	Price	EUR

9.46.3. CALCULATION

The index values for the iSTOXX Select Dividend Futures Roll TR Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.46.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Indices are reflected in the Decrement Indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.47. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE LARGE 100 NR DECREMENT 5% INDEX

9.47.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence Large 100 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX AI Global Artificial Intelligence Large 100 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX AI Global Artificial Intelligence Large 100 NR Decrement 5% Index underperforms the iSTOXX AI Global Artificial Intelligence 100 Net Return Index that includes net dividend investments.

9.47.2. DEFINITIONS

Base value: 1000
Base date: 15 March 2013
Underlying Index: iSTOXX AI Global Artificial Intelligence Large 100 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.47.3. CALCULATION

The index value for the iSTOXX AI Global Artificial Intelligence Large 100 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.47.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.48. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 NR DECREMENT INDICES

9.48.1. OVERVIEW

The EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement Indices replicate the performance of the net return version of the EURO iSTOXX ESG Weighted Additional Exclusions 50 Index assuming constant performance deductions per annum. The performance deductions accrue constantly on a daily basis. In the case of the EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement 4% Index, 4% annual deduction applies on the net return version of the equity index, while for the EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement 4.5% Index, 4.5% annual deduction is applied on the net return version.

Consequently, due to the percentage of performance deductions, EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement Indices underperform the EURO iSTOXX ESG Weighted Additional Exclusions 50 Net Return Index that includes net dividend investments.

9.48.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base Date	Index Type	Index Currency
EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement 4% Index	EURO iSTOXX ESG Weighted Additional Exclusions 50 Net Return Index	4%	1000	STOXX Europe Calendar	19 March 2012	Price	EUR
EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement 4.5% Index	EURO iSTOXX ESG Weighted Additional Exclusions 50 Net Return Index	4.5%	1000	STOXX Europe Calendar	19 March 2012	Price	EUR

9.48.3. CALCULATION

The index values for the EURO iSTOXX ESG Weighted Additional Exclusions 50 NR Decrement Indices is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.48.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.49. EURO iSTOXX 50 ARTIFICIAL INTELLIGENCE TILTED NR DECREMENT 5% INDEX

9.49.1. OVERVIEW

The EURO iSTOXX 50 Artificial Intelligence Tilted NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Artificial Intelligence Tilted Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Artificial Intelligence Tilted NR Decrement 5% Index underperforms the EURO iSTOXX 50 Artificial Intelligence Tilted Net Return Index that includes net dividend investments.

9.49.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Artificial Intelligence Tilted EUR Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.49.3. CALCULATION

The index value for EURO iSTOXX 50 Artificial Intelligence Tilted NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.49.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.50. EURO iSTOXX 50 ELECTRIC VEHICLES TILTED NR DECREMENT 5% INDEX

9.50.1. OVERVIEW

The EURO iSTOXX 50 Electric Vehicles Tilted NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Electric Vehicles Tilted Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Electric Vehicles Tilted NR Decrement 5% Index underperforms the EURO iSTOXX 50 Electric Vehicles Tilted Net Return Index that includes net dividend investments.

9.50.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Electric Vehicles Tilted EUR Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.50.3. CALCULATION

The index value for EURO iSTOXX 50 Electric Vehicles Tilted NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.50.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.51. EURO iSTOXX 50 SHARING ECONOMY TILTED NR DECREMENT 5% INDEX

9.51.1. OVERVIEW

The EURO iSTOXX 50 Sharing Economy Tilted NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Sharing Economy Tilted Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Sharing Economy Tilted NR Decrement 5% Index underperforms the EURO iSTOXX 50 Sharing Economy Tilted Net Return Index that includes net dividend investments.

9.51.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Sharing Economy Tilted EUR Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.51.3. CALCULATION

The index value for EURO iSTOXX 50 Sharing Economy Tilted NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.51.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.52. EURO iSTOXX 50 FUTURE HEALTHCARE TILTED NR DECREMENT 5% INDEX

9.52.1. OVERVIEW

The EURO iSTOXX 50 Future Healthcare Tilted NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Future Healthcare Tilted Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Future Healthcare Tilted NR Decrement 5% Index underperforms the EURO iSTOXX 50 Future Healthcare Tilted Net Return Index that includes net dividend investments.

9.52.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Future Healthcare Tilted EUR Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.52.3. CALCULATION

The index value for EURO iSTOXX 50 Future Healthcare Tilted NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.52.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.53. EURO iSTOXX® 50 AND EURO iSTOXX® 50 EQUAL WEIGHTED DECREMENT INDICES

9.53.1. OVERVIEW

The EURO iSTOXX® 50 and EURO iSTOXX® 50 Equal Weighted Decrement Indices replicate the performance of the underlying index while assuming a constant dividend markdown. Over the course of a year, a fixed percentage (3.25% and 3.5%) of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX® 50 and EURO iSTOXX® 50 Equal Weighted Decrement Indices underperform compared to the underlying indices (EURO STOXX® 50 GR and NR Index and EURO STOXX® 50 Equal Weighted GR and NR Index).

9.53.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base Date	Index Type	Index Currency
EURO iSTOXX 50 NR Decrement 3.5%	EURO STOXX 50 Net Return	3.5%	1000	STOXX Europe Calendar	31 December 1991	Net Return	EUR
EURO iSTOXX 50 GR Decrement 3.5%	EURO STOXX 50 Gross Return	3.5%	1000	STOXX Europe Calendar	31 December 2000	Gross Return	EUR
EURO iSTOXX 50 NR Decrement 3.25%	EURO STOXX 50 Net Return	3.25%	1000	STOXX Europe Calendar	31 December 1991	Net Return	EUR
EURO iSTOXX 50 GR Decrement 3.25%	EURO STOXX 50 Gross Return	3.25%	1000	STOXX Europe Calendar	29 December 2000	Gross Return	EUR
EURO iSTOXX 50 Equal Weight NR Decrement 3.5%	EURO STOXX 50 Equal Weight Net Return	3.5%	1000	STOXX Europe Calendar	31 December 1999	Net Return	EUR
EURO iSTOXX 50 Equal Weight GR Decrement 3.5%	EURO STOXX 50 Equal Weight Gross Return	3.5%	1000	STOXX Europe Calendar	29 December 2000	Gross Return	EUR
EURO iSTOXX 50 Equal Weight NR Decrement 3.25%	EURO STOXX 50 Equal Weight Net Return	3.25%	1000	STOXX Europe Calendar	31 December 1999	Net Return	EUR
EURO iSTOXX 50 Equal Weight GR Decrement 3.25%	EURO STOXX 50 Equal Weight Gross Return	3.25%	1000	STOXX Europe Calendar	29 December 2000	Gross Return	EUR

9.53.3. CALCULATION

The index values for the EURO iSTOXX® 50 and EURO iSTOXX® 50 Equal Weighted Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.53.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.54. iSTOXX SUPERSECTOR EUROPE DECREMENT INDICES

9.54.1. OVERVIEW

The iSTOXX Supersector Europe Decrement Indices cover 12 ICB Super Sectors, replicating the performance of the appropriate corresponding underlying index while assuming a constant dividend markdown. Over the course of a year, a fixed percentage (between 2% and 4% depending on the sector) of the performance of the underlying index gradually subtracted according to the corresponding day-to-day year fraction. The 12 Super Sectors with their respective indices are: Automobiles & Parts - STOXX Europe 600 Automobiles & Parts NR EUR, Banks - EURO STOXX Banks NR EUR, Basic Resources - STOXX Europe 600 Basic Resources NR EUR, Chemicals - EURO STOXX Chemicals NR EUR, Food & Beverage - STOXX Europe 600 Food & Beverage NR EUR, Health Care - STOXX Europe 600 Health Care NR EUR, Industrial Goods & Services - EURO STOXX Industrial Goods & Services NR EUR, Energy - STOXX Europe 600 Energy EUR NR, Telecommunications - EURO STOXX Telecommunications NR EUR, Insurance - EURO STOXX Insurance NR EUR, Consumer Products & Services - EURO STOXX Consumer Products and Services EUR Net Return, Personal Care Drug & Grocery Stores - EURO STOXX Personal Care Drug and Grocery Stores EUR Net Return.

Consequently, due to the percentage of performance deduction, the iSTOXX Supersector Europe Decrement Indices underperform compared to the underlying indices.

9.54.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (in percentage points)	Base value	Calendar	Base Date	Index Type	Index Currency
iSTOXX Europe 600 Automobiles & Parts NR Decrement 2%	STOXX Europe 600 Automobiles & Parts Net Return	2%	149.04	STOXX Europe Calendar	31 December 1986	Net Return	EUR
EURO iSTOXX Banks NR Decrement 3%	EURO STOXX Banks Net Return	3%	95.79	STOXX Europe Calendar	31 December 1986	Net Return	EUR
iSTOXX Europe 600 Basic Resources NR Decrement 4%	STOXX Europe 600 Basic Resources Net Return	4%	64.05	STOXX Europe Calendar	31 December 1986	Net Return	EUR
EURO iSTOXX Chemicals NR Decrement 2%	EURO STOXX Chemicals Net Return	2%	94.5	STOXX Europe Calendar	31 December 1986	Net Return	EUR
iSTOXX Europe 600 Food & Beverage NR Decrement 2%	STOXX Europe 600 Food & Beverage Net Return	2%	51.75	STOXX Europe Calendar	31 December 1986	Net Return	EUR
iSTOXX Europe 600 Health Care NR Decrement 2%	STOXX Europe 600 Health Care Net Return	2%	40.45	STOXX Europe Calendar	31 December 1986	Net Return	EUR
EURO iSTOXX Industrial Goods & Services NR Decrement 2%	EURO STOXX Industrial Goods & Services Net Return	2%	87.7	STOXX Europe Calendar	31 December 1986	Net Return	EUR
iSTOXX Europe 600 Energy NR Decrement 4%	STOXX Europe 600 Energy Net Return	4%	100	STOXX Europe Calendar	17 September 2010	Net Return	EUR
EURO iSTOXX Telecommunications NR Decrement 4%	EURO STOXX Telecommunications Net Return	4%	71.84	STOXX Europe Calendar	31 December 1986	Net Return	EUR
EURO iSTOXX Insurance NR Decrement 4%	EURO STOXX Insurance Net Return	4%	114.58	STOXX Europe Calendar	31 December 1986	Net Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

EURO iSTOXX Consumer Products and Services NR Decrement 2%	EURO STOXX Consumer Products and Services Net Return	2%	100	STOXX Europe Calendar	17 September 2010	Net Return	EUR
EURO iSTOXX Personal Care Drug and Grocery Stores NR Decrement 3%	EURO STOXX Personal Care Drug and Grocery Stores Net Return	3%	100	STOXX Europe Calendar	17 September 2010	Net Return	EUR

9.54.3. CALCULATION

The index values for the STOXX Supersector Europe Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.54.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.55. EURO iSTOXX 50 FUTURES ROLL TR KRW HEDGED (MONTHLY) DECREMENT 3.5% INDEX

9.55.1. OVERVIEW

The EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Decrement 3.5% Index replicates the performance of the EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index assuming a constant 3.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Due to the percentage of performance deductions, the EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Decrement 3.5% Index underperforms the EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index.

9.55.2. DEFINITIONS

Base value: 1000
Base date: 31 March 2011
Underlying Index: EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index
Decrement Amount (in percentage points): 3.5%
Index Currency: KRW
Dissemination calendar: STOXX Eurex calendar

9.55.3. CALCULATION

The index value EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Decrement 3.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.55.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.56. iSTOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY 30 NR DECREMENT 5% INDICES

9.56.1. OVERVIEW

The iSTOXX Global Electric Vehicles & Driving Technology 30 NR Decrement 5% indices replicate the performance of the net return versions of the iSTOXX Global Electric Vehicles & Driving Technology 30 indices assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Global Electric Vehicles & Driving Technology 30 NR Decrement 5% Indices underperform the iSTOXX Global Electric Vehicles & Driving Technology 30Net Return indices that include net dividend investments.

9.56.2. DEFINITIONS

Base value: 1000
Base date: 21 June 2013
Underlying Index iSTOXX Global Electric Vehicles & Driving Technology 30 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR, USD
Dissemination calendar: STOXX Europe calendar

9.56.3. CALCULATION

The index value for the iSTOXX Global Electric Vehicles & Driving Technology 30 NR Decrement 5% Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.56.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.57. iSTOXX SINGLE STOCK GR DECREMENT INDICES

9.57.1. OVERVIEW

The iSTOXX Single Stock Decrement GR Indices consist of 147 decrement indices, replicating the performance of 64 individual single stock gross return indices (calculated according to STOXX methodology), assuming a constant dividend markdown. This markdown is down at constant index point deduction levels or constant percentage deduction of performance level for each single stock security (assuming constant accrual).

Consequently, due to the performance deductions, the iSTOXX Single Stock GR Decrement Indices underperform the individual single stock gross return indices.

9.57.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (Points unless % shown)	Base value	Calendar	Base Date	Index Type	Index Currency
iSTOXX SAN GR Decrement 3.00	Internal Single Stock GR Index	3.00	48.98	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX SAN GR Decrement 2.85	Internal Single Stock GR Index	2.85	48.18	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX SAN GR Decrement 3.80%	Internal Single Stock GR Index	3.80%	47.9	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RI GR Decrement 1.80	Internal Single Stock GR Index	1.80	63.58	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RI GR Decrement 2.31	Internal Single Stock GR Index	2.31	66.85	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RI GR Decrement 1.75%	Internal Single Stock GR Index	1.75%	63.82	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX FP GR Decrement 2.44	Internal Single Stock GR Index	2.44	41.54	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX FP GR Decrement 2.54	Internal Single Stock GR Index	2.54	58.22	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX FP GR Decrement 5.70%	Internal Single Stock GR Index	5.70%	41.29	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX NESN GR Decrement 2.20	Internal Single Stock GR Index	2.20	51.21	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NESN GR Decrement 2.38	Internal Single Stock GR Index	2.38	52.28	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NESN GR Decrement 2.75%	Internal Single Stock GR Index	2.75%	49.45	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NOVN GR Decrement 2.60	Internal Single Stock GR Index	2.60	46.25	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NOVN GR Decrement 2.78	Internal Single Stock GR Index	2.78	47.09	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NOVN GR Decrement 3.65%	Internal Single Stock GR Index	3.65%	44.73	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX ROG GR Decrement 8.00	Internal Single Stock GR Index	8.00	136.43	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX ROG GR Decrement 8.38	Internal Single Stock GR Index	8.38	138.2	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX ROG GR Decrement 3.15%	Internal Single Stock GR Index	3.15%	132.32	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX DPW GR Decrement 0.85	Internal Single Stock GR Index	0.85	12.99	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX DPW GR Decrement 1.03	Internal Single Stock GR Index	1.03	13.85	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX DPW GR Decrement 3.15%	Internal Single Stock GR Index	3.15%	12.34	STOXX Europe Calendar	14 March 2011	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX ALV GR Decrement 6.85	Internal Single Stock GR Index	6.85	101.25	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ALV GR Decrement 8.06	Internal Single Stock GR Index	8.06	108.38	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ALV GR Decrement 4.40%	Internal Single Stock GR Index	4.40%	94.38	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RMS GR Decrement 2.95	Internal Single Stock GR Index	2.95	143.11	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RMS GR Decrement 3.88	Internal Single Stock GR Index	3.88	146.97	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RMS GR Decrement 0.75%	Internal Single Stock GR Index	0.75%	141.17	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UBSG GR Decrement 0.37	Internal Single Stock GR Index	0.37	14.57	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX UBSG GR Decrement 0.55	Internal Single Stock GR Index	0.55	17.81	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX UBSG GR Decrement 4.10%	Internal Single Stock GR Index	4.10%	17.62	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX SIE GR Decrement 2.90	Internal Single Stock GR Index	2.90	79.32	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX SIE GR Decrement 3.73	Internal Single Stock GR Index	3.73	86.22	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX SIE GR Decrement 3.60%	Internal Single Stock GR Index	3.60%	80.5	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UCG GR Decrement 0.10	Internal Single Stock GR Index	0.10	52.14	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UCG GR Decrement 0.48	Internal Single Stock GR Index	0.48	67.33	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UCG GR Decrement 3.90%	Internal Single Stock GR Index	3.90%	68.8	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ISP GR Decrement 0.07	Internal Single Stock GR Index	0.07	2.05	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ISP GR Decrement 0.12	Internal Single Stock GR Index	0.12	2.52	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ISP GR Decrement 5.60%	Internal Single Stock GR Index	5.60%	2.42	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ENI GR Decrement 0.36	Internal Single Stock GR Index	0.36	10.1	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ENI GR Decrement 0.76	Internal Single Stock GR Index	0.76	15.77	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ENI GR Decrement 5.80%	Internal Single Stock GR Index	5.80%	15.95	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX LDO GR Decrement 0.14	Internal Single Stock GR Index	0.14	9.61	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX LDO GR Decrement 0.23	Internal Single Stock GR Index	0.23	10.79	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX LDO GR Decrement 1.75%	Internal Single Stock GR Index	1.75%	9.41	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX WMT GR Decrement 1.96	Internal Single Stock GR Index	1.96	53.2	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX WMT GR Decrement 2.06	Internal Single Stock GR Index	2.06	53.73	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX WMT GR Decrement 2.20%	Internal Single Stock GR Index	2.20%	51.67	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX DIS GR Decrement 1.42	Internal Single Stock GR Index	1.42	44.25	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX DIS GR Decrement 1.64	Internal Single Stock GR Index	1.64	45.27	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX DIS GR Decrement 1.45%	Internal Single Stock GR Index	1.45%	42.93	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX INTC GR Decrement 0.96	Internal Single Stock GR Index	0.96	20.73	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX INTC GR Decrement 1.15	Internal Single Stock GR Index	1.15	21.66	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX INTC GR Decrement 2.60%	Internal Single Stock GR Index	2.60%	20.08	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX JPM GR Decrement 1.68	Internal Single Stock GR Index	1.68	44.54	STOXX US Calendar	14 March 2011	Price Return	USD

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX JPM GR Decrement 2.48	Internal Single Stock GR Index	2.48	50.03	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX JPM GR Decrement 2.45%	Internal Single Stock GR Index	2.45%	44.02	STOXX US Calendar	14 March 2011	Price Return	USD
iSTOXX SWEDA GR Decrement 7.50	Internal Single Stock GR Index	7.50	102.13	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SWEDA GR Decrement 12.00	Internal Single Stock GR Index	12.00	126.82	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SWEDA GR Decrement 6.00%	Internal Single Stock GR Index	6.00%	111.41	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX HMB GR Decrement 8.50	Internal Single Stock GR Index	8.50	203.34	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX HMB GR Decrement 9.70	Internal Single Stock GR Index	9.70	213.06	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX HMB GR Decrement 4.50%	Internal Single Stock GR Index	4.50%	215.76	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SSABA GR Decrement 0.75	Internal Single Stock GR Index	0.75	78.47	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SSABA GR Decrement 1.25	Internal Single Stock GR Index	1.25	87.56	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SSABA GR Decrement 3.00%	Internal Single Stock GR Index	3.00%	84.7	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX VOLVB GR Decrement 3.00	Internal Single Stock GR Index	3.00	99.65	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX VOLVB GR Decrement 4.00	Internal Single Stock GR Index	4.00	107.87	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX VOLVB GR Decrement 3.05%	Internal Single Stock GR Index	3.05%	101.91	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX SAN GR Decrement 3.20	Internal Single Stock GR Index	3.20	50.5	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RI GR Decrement 2.66	Internal Single Stock GR Index	2.66	69.02	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX FP GR Decrement 2.64	Internal Single Stock GR Index	2.64	43.52	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX NESN GR Decrement 2.75	Internal Single Stock GR Index	2.75	54.66	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX NOVN GR Decrement 3.00	Internal Single Stock GR Index	3.00	48.7	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX ROG GR Decrement 9.10	Internal Single Stock GR Index	9.10	142.48	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX DPW GR Decrement 1.35	Internal Single Stock GR Index	1.35	15.31	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ALV GR Decrement 9.60	Internal Single Stock GR Index	9.60	118.17	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX RMS GR Decrement 4.55	Internal Single Stock GR Index	4.55	149.95	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UBSG GR Decrement 0.18	Internal Single Stock GR Index	0.18	14.52	STOXX Europe Calendar	14 March 2011	Price Return	CHF
iSTOXX SIE GR Decrement 3.50	Internal Single Stock GR Index	3.50	84.63	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX UCG GR Decrement 0.27	Internal Single Stock GR Index	0.27	62.61	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ISP GR Decrement 0.197	Internal Single Stock GR Index	0.197	3.36	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX ENI GR Decrement 0.55	Internal Single Stock GR Index	0.55	13.75	STOXX Europe Calendar	14 March 2011	Price Return	EUR
iSTOXX WMT GR Decrement 2.20	Internal Single Stock GR Index	2.20	54.84	STOXX Europe Calendar	14 March 2011	Price Return	USD
iSTOXX DIS GR Decrement 1.76	Internal Single Stock GR Index	1.76	46.03	STOXX Europe Calendar	14 March 2011	Price Return	USD
iSTOXX INTC GR Decrement 1.39	Internal Single Stock GR Index	1.39	23.06	STOXX Europe Calendar	14 March 2011	Price Return	USD
iSTOXX JPM GR Decrement 3.60	Internal Single Stock GR Index	3.60	57.31	STOXX Europe Calendar	14 March 2011	Price Return	USD
iSTOXX VOLVB GR Decrement 6.00	Internal Single Stock GR Index	6.00	125.06	STOXX Europe Calendar	14 March 2011	Price Return	SEK
iSTOXX ENGI GR Decrement 0.71	Internal Single Stock GR Index	0.71	27.37	STOXX Europe Calendar	02 January 2007	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX ORA GR Decrement 0.65	Internal Single Stock GR Index	0.65	16.53	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX EN GR Decrement 1.70	Internal Single Stock GR Index	1.70	51.56	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX REP GR Decrement 0.58	Internal Single Stock GR Index	0.58	19.63	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX REP GR Decrement 0.83	Internal Single Stock GR Index	0.83	22.73	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX BBVA GR Decrement 0.16	Internal Single Stock GR Index	0.16	6.71	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX BBVA GR Decrement 0.26	Internal Single Stock GR Index	0.26	7.78	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX TEF GR Decrement 0.45	Internal Single Stock GR Index	0.45	15.33	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX BATS GR Decrement 190	Internal Single Stock GR Index	190	2954.54	STOXX Europe Calendar	01 July 2011	Price Return	GBP
iSTOXX BATS GR Decrement 215	Internal Single Stock GR Index	215	3118.57	STOXX Europe Calendar	01 July 2011	Price Return	GBP
iSTOXX BP GR Decrement 37	Internal Single Stock GR Index	37	561.43	STOXX Europe Calendar	01 July 2011	Price Return	GBP
iSTOXX BP GR Decrement 21	Internal Single Stock GR Index	21	428.79	STOXX Europe Calendar	01 July 2011	Price Return	GBP
iSTOXX RDSA GR Decrement 0.69	Internal Single Stock GR Index	0.69	19.39	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX CS GR Decrement 1.43	Internal Single Stock GR Index	1.43	42.05	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX BAS GR Decrement 3.30	Internal Single Stock GR Index	3.30	72.72	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX BAYN GR Decrement 2.00	Internal Single Stock GR Index	2.00	53.63	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX BN GR Decrement 1.94	Internal Single Stock GR Index	1.94	54.17	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX ORA GR Decrement 0.7	Internal Single Stock GR Index	0.7	14.15	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX Single Stock on EDF GR Decrement 0.51	Internal Single Stock GR Index	0.51	14.95	STOXX Europe Calendar	01 February 2012	Price Return	EUR
iSTOXX Single Stock on EDF GR Decrement 0.45	Internal Single Stock GR Index	0.45	14.38	STOXX Europe Calendar	01 February 2012	Price Return	EUR
iSTOXX Single Stock on Société Générale GR Decrement 1.65	Internal Single Stock GR Index	1.65	30.46	STOXX Europe Calendar	03 January 2022	Price Return	EUR
iSTOXX Single Stock on BNP Paribas GR Decrement 3.02	Internal Single Stock GR Index	3.02	61.2	STOXX Europe Calendar	03 January 2022	Price Return	EUR
iSTOXX Single Stock on Bouygues GR Decrement 1.6	Internal Single Stock GR Index	1.6	31.41	STOXX Europe Calendar	03 January 2022	Price Return	EUR
iSTOXX Single Stock on Stellantis GR Decrement 1	Internal Single Stock GR Index	1	15.22	STOXX Europe Calendar	2 January 2007	Price Return	EUR
iSTOXX Single Stock on Stellantis GR Decrement 0.9	Internal Single Stock GR Index	0.9	13.95	STOXX Europe Calendar	2 January 2007	Price Return	EUR
iSTOXX Single Stock on Enel GR Decrement 0.38	Internal Single Stock GR Index	0.38	3	STOXX Europe Calendar	01 June 2012	Price Return	EUR
iSTOXX Single Stock on CNH Industrial GR Decrement 0.28	Internal Single Stock GR Index	0.28	9.74	STOXX Europe Calendar	30 September 2013	Price Return	EUR
iSTOXX Single Stock on Mediobanca Banca di Credito GR Decrement 0.66	Internal Single Stock GR Index	0.66	4.57	STOXX Europe Calendar	01 June 2012	Price Return	EUR
iSTOXX Single Stock on Telecom Italia GR Decrement 0.01	Internal Single Stock GR Index	0.01	0.74	STOXX Europe Calendar	01 June /2012	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX Single Stock on Poste Italiane GR Decrement 0.78	Internal Single Stock GR Index	0.78	8.29	STOXX Europe Calendar	27 October 2015	Price Return	EUR
iSTOXX Single Stock on Assicurazioni Generali GR Decrement 1.07	Internal Single Stock GR Index	1.07	10.74	STOXX Europe Calendar	01 June 2012	Price Return	EUR
iSTOXX Single Stock on Telefonica GR Decrement 0.35	Internal Single Stock GR Index	0.35	13.86	STOXX Europe Calendar	01 July 2011	Price Return	EUR
iSTOXX Single Stock on KGHM Polska Miedz GR Decrement 3.3	Internal Single Stock GR Index	3.3	114.46	STOXX Europe Calendar	01 June 2012	Price Return	PLN
iSTOXX Single Stock on Powszechny Zaklad Ubezpieczen GR Decrement 2.92	Internal Single Stock GR Index	2.92	31.35	STOXX Europe Calendar	01 June 2012	Price Return	PLN
iSTOXX Single Stock on PKO Bank Polski GR Decrement 2.45	Internal Single Stock GR Index	2.45	46.18	STOXX Europe Calendar	01 June 2012	Price Return	PLN
iSTOXX Single Stock on Bank Polska Kasa Opieki GR Decrement 4.3	Internal Single Stock GR Index	4.3	121.35	STOXX Europe Calendar	01 June 2012	Price Return	PLN
iSTOXX Single Stock on Erste Group Bank GR Decrement 1.93	Internal Single Stock GR Index	1.93	20.75	STOXX Europe Calendar	01 June 2012	Price Return	EUR
iSTOXX Single Stock on Mercedes-Benz Group GR Decrement 3.8	Internal Single Stock GR Index	3.8	47.6	STOXX Europe Calendar	01 February 2012	Price Return	EUR
iSTOXX Single Stock on Mercedes-Benz Group GR Decrement 5	Internal Single Stock GR Index	5	55.09	STOXX Europe Calendar	01 February 2012	Price Return	EUR
iSTOXX Single Stock on Kering GR Decrement 12	Internal Single Stock GR Index	12	190.56	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on CGDE Michelin GR Decrement 1.125	Internal Single Stock GR Index	1.125	25.46	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Carrefour GR Decrement 0.52	Internal Single Stock GR Index	0.52	39.41	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Veolia GR Decrement 1	Internal Single Stock GR Index	1	59.95	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on BNP Paribas GR Decrement 2.7	Internal Single Stock GR Index	2.7	110.52	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on BNP Paribas GR Decrement 3.67	Internal Single Stock GR Index	3.67	131.58	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Credit Agricole GR Decrement 0.6	Internal Single Stock GR Index	0.6	36	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Credit Agricole GR Decrement 0.72	Internal Single Stock GR Index	0.72	40.18	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Anglo American GR Decrement 200	Internal Single Stock GR Index	200	5930.76	STOXX Europe Calendar	02 January 2007	Price Return	GBP
iSTOXX Single Stock on ABN AMRO Bank GR Decrement 0.93	Internal Single Stock GR Index	0.93	19.35	STOXX Europe Calendar	01 June 2016	Price Return	EUR
iSTOXX Single Stock on Aegon GR Decrement 0.2	Internal Single Stock GR Index	0.2	15.05	STOXX Europe Calendar	02 January 2007	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX Single Stock on Banco BPM GR Decrement 0.2	Internal Single Stock GR Index	0.2	131.45	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on BPER Banca GR Decrement 0.08	Internal Single Stock GR Index	0.8	12.39	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on ING GR Decrement 0.6	Internal Single Stock GR Index	0.6	38.89	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on ArcelorMittal GR Decrement 0.48	Internal Single Stock GR Index	0.48	74.12	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Rio Tinto GR Decrement 440	Internal Single Stock GR Index	440	4904.62	STOXX Europe Calendar	02 January 2007	Price Return	GBP
iSTOXX Single Stock on RWE GR Decrement 1	Internal Single Stock GR Index	1	74.18	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Tenaris GR Decrement 0.41	Internal Single Stock GR Index	0.41	21.96	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Klepierre GR Decrement 1.7	Internal Single Stock GR Index	1.7	51.74	STOXX Europe Calendar	02 January 2007	Price Return	EUR
iSTOXX Single Stock on Poste Italiane GR Decrement 0.62	Internal Single Stock GR Index	0.62	7.42	STOXX Europe Calendar	27 October 2015	Price Return	EUR

9.57.3. CALCULATION

The index values for the iSTOXX Single Stock Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.57.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index. The index is terminated when the underlying index is terminated.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.58. EURO iSTOXX 50 FUTURES ROLL TR DECREMENT 5% INDEX

9.58.1. OVERVIEW

The EURO iSTOXX® 50 Futures Roll TR Decrement 5% Index replicates the performance of the Total Return version of the EURO STOXX® 50 Futures Roll Index while assuming a constant performance deduction. Over the course of a year, 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX® 50 Futures Roll TR Decrement 5% Index underperforms the EURO STOXX 50 Futures Roll TR Index.

9.58.2. DEFINITIONS

Base value: 1000
Base date: 29 December 2000
Underlying Index: EURO STOXX 50 Futures Roll TR Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Eurex calendar

9.58.3. CALCULATION

The index value for the EURO iSTOXX® 50 Futures Roll TR Decrement 5% Index are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.58.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.59. EURO iSTOXX ESG PERFORMANCE 50 NR DECREMENT 5% INDEX

9.59.1. OVERVIEW

The EURO iSTOXX ESG Performance 50 NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX ESG Performance 50 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX ESG Performance 50 NR Decrement 5% Index underperforms the EURO iSTOXX ESG Performance 50 Net Return Index that includes net dividend investments.

9.59.2. DEFINITIONS

Base value: 1000
Base date: 24 March 2014
Underlying Index EURO iSTOXX ESG Performance 50 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.59.3. CALCULATION

The index value for the EURO iSTOXX ESG Performance 50 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.59.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.60. EURO iSTOXX INSURANCE GR DECREMENT 50 SERIES 1 INDEX

9.60.1. OVERVIEW

The EURO iSTOXX Insurance GR Decrement 50 Series 1 index replicates the returns of an investment into the underlying index with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention).
Consequently, due to the index points being subtracted, the EURO iSTOXX Insurance GR Decrement 50 index is underperforming the standard gross return indices that include a full dividend investment.

9.60.2. DEFINITIONS

Base value: 840
Base date: 11 March 2021
Underlying Index: EURO STOXX Insurance Gross Return Index in EUR
Decrement Amount (in index points): 50
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: EUR

9.60.3. CALCULATION

The EURO iSTOXX Insurance GR Decrement 50 Series 1 index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.61. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 NR DECREMENT 5% INDEX

9.61.1. OVERVIEW

The iSTOXX Global Demographic Trends Select 50 NR Decrement 5% index replicate the performance of the net return version of the iSTOXX Global Demographic Trends Select 50 index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Global Demographic Trends Select 50 NR Decrement 5% Index underperforms the iSTOXX Global Demographic Trends Select 50 Net Return index that includes net dividend investments.

9.61.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: iSTOXX Global Demographic Trends Select 50 Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.61.3. CALCULATION

The index value for the iSTOXX Global Demographic Trends Select 50 NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.61.1. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.62. iSTOXX DEVELOPED MARKETS GOLD MINERS 10 EW NR DECREMENT 5% INDEX

9.62.1. OVERVIEW

The iSTOXX Developed Markets Gold Miners 10 EW NR Decrement 5% index replicate the performance of the net return version of the iSTOXX Developed Markets Gold Miners 10 EW index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Developed Markets Gold Miners 10 EW NR Decrement 5% Index underperforms the iSTOXX Developed Markets Gold Miners 10 EW Net Return index that includes net dividend investments.

9.62.2. DEFINITIONS

Base value: 1000
Base date: 24 Dec 2012
Underlying Index iSTOXX Developed Markets Gold Miners 10 EW Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.62.3. CALCULATION

The index value for the iSTOXX Developed Markets Gold Miners 10 EW NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.62.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.63. EURO iSTOXX ESG PERFORMANCE 50 GR DECREMENT 45 INDEX

9.63.1. OVERVIEW

The EURO iSTOXX ESG Performance 50 GR Decrement 45 Index replicates the performance of the gross return version of the EURO iSTOXX ESG Performance 50 Index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points deduction, the EURO iSTOXX ESG Performance 50 GR Decrement 45 Index underperforms the EURO iSTOXX ESG Performance 50 Gross Return Index, which includes the gross dividend investments.

9.63.2. DEFINITIONS

Base value: 900
Base date: 16 April 2021
Underlying Index: EURO iSTOXX ESG Performance 50 Gross Return Index
Decrement Amount (in index points): 45
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.63.3. CALCULATION

The EURO iSTOXX ESG Performance 50 GR Decrement 45 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.63.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.64. iSTOXX GLOBAL ESG 120 DECREMENT

9.64.1. OVERVIEW

The iSTOXX Global ESG 120 Decrement index aims to replicate an investment in the iSTOXX Global ESG 120 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

The iSTOXX Global ESG 120 Decrement index is constructed by building and then combining several indices:

i. iSTOXX Global ESG Eurozone Leg Equal Weight EUR (Gross Return)
ii. iSTOXX Global ESG US Leg Equal Weight EUR (Gross Return)
iii. iSTOXX Global ESG Japan Leg Equal Weight EUR (Gross Return)
iv. iSTOXX Global ESG 120 EUR (Gross Return)

9.64.2. iSTOXX GLOBAL ESG REGIONAL LEG EQUAL WEIGHT

9.64.2.1. OVERVIEW

Available Indices:
iSTOXX Global ESG Eurozone Leg Equal Weight
iSTOXX Global ESG US Leg Equal Weight
iSTOXX Global ESG Japan Leg Equal Weight

Universe: The index universe is defined by
EURO STOXX ESG-X for the iSTOXX Global ESG Eurozone Leg Equal Weight
STOXX USA 500 ESG-X for the iSTOXX Global ESG US Leg Equal Weight
STOXX Japan 600 ESG-X for the iSTOXX Global ESG Japan Leg Equal Weight

Weighting scheme: The indices are price-weighted with a weighting factor to achieve an equal-weighting

Base value: 1000

Base Date: 16 March 2012

Index types and currencies: Price, Net and Gross Return in EUR and USD for the iSTOXX Global ESG Eurozone Leg Equal Weight and the iSTOXX Global ESG US Leg Equal Weight. Price, Net and Gross Return in EUR, USD and JPY for the iSTOXX Global ESG Japan Leg Equal Weight.

Dissemination calendar: STOXX Europe calendar for iSTOXX Global ESG Eurozone Leg Equal Weight, STOXX Americas calendar for iSTOXX Global ESG US Leg Equal Weight, STOXX Global calendar for iSTOXX Global ESG Japan Leg Equal Weight.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.64.2.2. INDEX REVIEW

Selection list:
From the universe, STOXX will exclude companies that Sustainalytics identifies to be involved in:

- **Unconventional Oil & Gas**:
  - i) **Artic Oil and Gas Exploration**:
    »>0% revenues Oil & Gas exploration & extraction in Arctic regions
  - ii) **Oil Sands**:
    »>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
  - iii) **Shale Energy**:
    »>0% revenues from shale energy exploration and/or production

The remaining companies are ranked in descending order in terms of their ESG score, sourced from Sustainalytics ESG Rating dataset. If this information is not available for a company, an ESG score of 0 is assigned. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the highest free-float market capitalization. The top 120 companies for the iSTOXX Global ESG Eurozone Leg Equal Weight, the top 200 companies for the iSTOXX Global ESG US Leg Equal Weight and the top 60 companies for the iSTOXX Global ESG Japan Leg Equal Weight, with the highest ESG scores remain in the selection process.

Composition list: The largest 60 companies for the iSTOXX Global ESG Eurozone Leg Equal Weight and the largest 30 companies for the iSTOXX Global ESG US Leg Equal Weight and iSTOXX Global ESG Japan Leg Equal Weight, in terms of free-float market capitalization, in each respective selection list, are selected for the final composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

Weighting factors: All components are equal-weighted on a quarterly basis. Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:
Weighting factor = (100,000,000,000 x wi / pi), rounded to the nearest integer value.

9.64.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.64.3. iSTOXX GLOBAL ESG 120

9.64.3.1. OVERVIEW

The iSTOXX Global ESG 120 is a composite index obtained by rebalancing the iSTOXX Global ESG Eurozone Leg Equal Weight, the iSTOXX Global ESG US Leg Equal Weight and the iSTOXX Global ESG Japan Leg Equal Weight indices respectively to 60%, 30% and 10% on a daily basis.

Base value: 1000
Base date: 16 March 2012
Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe calendar, STOXX US Country calendar and STOXX Japan Country calendar

9.64.3.2. INDEX FORMULA

$$IV_t = IV_{t-1} \cdot \sum_{i=1}^{3} w_i \cdot \frac{U_{t,i}}{U_{t-1,i}}$$

w_i = target weight of sub-index i
$U_{t,i}$ = close value of sub-index i on day t
IV_t = value of iSTOXX Global ESG 120 index on day t ($IV_{16.03.2012}$ = 1000)

i	Sub-index name	w_i
1	iSTOXX Global ESG Eurozone Leg Equal Weight	0.6
2	iSTOXX Global ESG US Leg Equal Weight	0.3
3	iSTOXX Global ESG Japan Leg Equal Weight	0.1

9.64.4. iSTOXX GLOBAL ESG 120 DECREMENT

9.64.4.1. OVERVIEW

The iSTOXX Global ESG 120 Decrement index aims to replicate an investment in the iSTOXX Global ESG 120 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

9.64.4.2. DEFINITIONS

Base value: 1000
Base date: 20 August 2021
Underlying Index: iSTOXX Global ESG 120 EUR (GR) Index
Decrement Amount (in index points): 50
Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe calendar, STOXX US Country calendar and STOXX Japan Country calendar
Index Type: Price
Index Currency: EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.64.4.3. INDEX CALCULATION

The iSTOXX Global ESG 120 Decrement EUR (P) is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.65. EURO iSTOXX ESG PERFORMANCE 50 NR DECREMENT 4% INDEX

9.65.1. OVERVIEW

The EURO iSTOXX ESG Performance 50 NR Decrement 4% Index replicates the performance of the net return version of the EURO iSTOXX ESG Performance 50 Index assuming a constant 4% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX ESG Performance 50 NR Decrement 4% Index underperforms the EURO iSTOXX ESG Performance 50 Net Return Index that includes net dividend investments.

9.65.2. DEFINITIONS

Base value: 1000
Base date: 24 March 2014
Underlying Index EURO iSTOXX ESG Performance 50 Net Return Index
Decrement Amount (in percentage points): 4%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.65.3. CALCULATION

The index value for the EURO iSTOXX ESG Performance 50 NR Decrement 4% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.65.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.66. EURO iSTOXX 50 RECOVERY TILTED NR DECREMENT 5% INDEX

9.66.1. OVERVIEW

The EURO iSTOXX 50 Recovery Tilted NR Decrement 5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Recovery Tilted Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Recovery Tilted NR Decrement 5% Index underperforms the EURO iSTOXX 50 Recovery Tilted Net Return Index that includes net dividend investments.

9.66.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Recovery Tilted EUR Net Return Index
Decrement Amount (in percentage points): 5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.66.3. CALCULATION

The index value for the EURO iSTOXX 50 Recovery Tilted NR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.66.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.67. EURO iSTOXX BANKS FUTURES ROLL TR DECREMENT 4% INDEX

9.67.1. OVERVIEW

EURO iSTOXX Banks Futures Roll TR Decrement 4% Index replicates the performance of the Total Return version of the EURO STOXX Banks Futures Roll Index while assuming a constant performance deduction. Over the course of a year, 4% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX Banks Futures Roll TR Decrement 4% Index underperforms the EURO STOXX Banks Futures Roll Index.

9.67.2. DEFINITIONS

Base value: 100
Base date: 19 March 2001
Underlying Index: EURO STOXX Banks Futures Roll TR (EUR) (SX7EFETR)
Decrement Amount (in percentage points): 4%
Index Type: Total Return
Index Currency: EUR

Dissemination calendar: STOXX Eurex Calendar

9.67.3. CALCULATION

The index value for the EURO iSTOXX Banks Futures Roll TR Decrement 4% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.67.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.68. EURO iSTOXX BANKS FUTURES ROLL TR DECREMENT 5% INDEX

9.68.1. OVERVIEW

EURO iSTOXX Banks Futures Roll TR Decrement 5% Index replicates the performance of the Total Return version of the EURO STOXX Banks Futures Roll Index while assuming a constant performance deduction. Over the course of a year, 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX Banks Futures Roll TR Decrement 5% Index underperforms the EURO STOXX Banks Futures Roll Index.

9.68.2. DEFINITIONS

Base value: 100
Base date: 19 March 2001
Underlying Index: EURO STOXX Banks Futures Roll TR (EUR) (SX7EFETR)
Decrement Amount (in percentage points): 5%
Index Type: Total Return
Index Currency: EUR

Dissemination calendar: STOXX Eurex Calendar

9.68.3. CALCULATION

The index value for the EURO iSTOXX Banks Futures Roll TR Decrement 5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.68.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.69. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 DECREMENT 3.5% INDEX

9.69.1. OVERVIEW

The iSTOXX Europe Responsibility Low Vol 30 Decrement 3.5% Index replicates the performance of the net return version of the iSTOXX Europe Responsibility Low Vol 30 Index assuming a constant 3.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the iSTOXX Europe Responsibility Low Vol 30 Decrement 3.5% Index underperforms the iSTOXX Europe Responsibility Low Vol 30 Net Return Index that includes net dividend investments.

9.69.2. DEFINITIONS

Base value: 1000
Base date: 19 March 2012
Underlying Index: iSTOXX Europe Responsibility Low Vol 30 Net Return Index
Decrement Amount (in percentage points): 3.5%
Index Type: Price
Index Currency: EUR
Dissemination calendar : STOXX Europe Calendar

9.69.3. CALCULATION

The index value for the iSTOXX Europe Responsibility Low Vol 30 Decrement 3.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.69.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.70. iSTOXX EUROPE 600 TELECOMMUNICATIONS GR DECREMENT 50 INDEX

9.70.1. OVERVIEW

The iSTOXX Europe 600 Telecommunications GR Decrement 50 Index replicates the performance of the STOXX Europe 600 Telecommunications GR Index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). As a result the decrement indices will underperform compared to the underlying index.

9.70.2. DEFINITIONS

Base value: 2092.10
Base date: 31 December 2000
Underlying Index: STOXX Europe 600 Telecommunications GR Index
Decrement Amount (in index points): 50
Index Type: Price
Index Currency: EUR

Dissemination calendar : STOXX Europe Calendar

9.70.3. CALCULATION

The Index Value for the iSTOXX Europe 600 Telecommunications GR Decrement 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.70.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.71. iSTOXX EUROPE 600 BASIC RESOURCES GR DECREMENT 50 INDEX

9.71.1. OVERVIEW

The iSTOXX Europe 600 Basic Resources GR Decrement 50 Index replicates the returns of an investment into the underlying index (STOXX Europe 600 Basic Resources GR index) with a constant dividend markdown expressed in index points that are subtracted on an accrued basis (using an Actual/365 Fixed day count convention). As a result the decrement indices will underperform compared to the underlying index.

9.71.2. DEFINITIONS

Base value: 645.35
Base date: 31 December 2000
Underlying Index: STOXX Europe 600 Basic Resources GR index
Decrement Amount (in index points): 50
Index Type: Price
Index Currency: EUR

Dissemination calendar : STOXX Europe Calendar

9.71.3. CALCULATION

The Index Value for the iSTOXX Europe 600 Basic Resources GR Decrement 50 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.71.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.72. EURO iSTOXX ENVIRONMENTAL 50 EQUAL WEIGHT NR DECREMENT 4% INDEX

9.72.1. OVERVIEW

The EURO iSTOXX Environmental 50 Equal Weight NR Decrement 4% Index replicates the performance of the EURO iSTOXX Environmental 50 Equal Weight NR Index assuming a constant 4% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 4% index underperforms the standard EURO iSTOXX Environmental 50 Equal Weight NR index that includes the net dividend investments.

9.72.2. DEFINITIONS

Base value: 1000
Base date: 19 Mar 2012
Underlying Index: EURO iSTOXX Environmental 50 Equal Weight Net Return Index in EUR
Decrement amount (in percentage points): 4%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.72.3. CALCULATION

The Index Value for the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 4% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.72.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.73. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE 100 NR RISK CONTROL 8% DECREMENT 3% INDEX

9.73.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% Decrement 3% Index replicates the performance of the iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% TR Index assuming a constant 4% performance deduction per annum. The performance deduction accrues constantly on a daily basis (using an Actual/365 Fixed day count convention).

Consequently, due to the percentage performance deduction, the iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% Decrement 3% Index underperforms the underlying index.

The underlying iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% TR Index aims to create a portfolio, consisting in a mix of the underlying index, the iSTOXX AI Global Artificial Intelligence 100 NR Index, and a cash component, whose risk fluctuates around a predefined level. The Index controls for risk by aiming for a defined target volatility level of 8%. In order to control for risk, the index shifts between a risk free money market investment and the risky asset (the underlying index). The maximum proportion that can be allocated to the risky asset has been set to 100%.

9.73.2. DEFINITIONS

Base value: 100
Base date: 11 June 2013
Underlying Index: iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% TR Index in EUR
Decrement amount (in percentage points): 3%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.73.3. CALCULATION

The Index Value for the iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% Decrement 3% Index Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

The underlying iSTOXX AI Global Artificial Intelligence 100 NR Risk Control 8% TR Index is calculated according to the STOXX Risk Control Indices section of the STOXX Strategy Guide (Cap set to 100%) .

9.73.4. ONGOING MAINTENANCE

All index changes and adjustments of the iSTOXX AI Global Artificial Intelligence 100 NR Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.74. iSTOXX FRANCE ESG 40 DECREMENT 50 INDEX

9.74.1. OVERVIEW

The iSTOXX France ESG 40 Decrement 50 index replicates the performance of the gross return version of the iSTOXX France ESG 40 index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points being subtracted, the iSTOXX France ESG 40 Decrement 50 index is underperforming the standard gross return index that includes a full dividend investment.

9.74.2. iSTOXX FRANCE ESG 40

9.74.2.1. OVERVIEW

The 40 constituents of the iSTOXX France ESG 40 index are selected from the French companies within the EURO STOXX Total Market ESG-X index. Additionally, companies involved in Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy) are not eligible for selection. The final index components are determined based on their ranks of free float market capitalization and ESG Risk Rating scores calculated by Sustainalytics. The selected 40 securities are then weighted according to free-float market capitalization with a 10% maximum capping per constituent.

Base value and date: 1000 on 24 Mar 2014

Index Type and Currencies: Price, Net and Gross Return in EUR

Universe: EURO STOXX Total Market ESG-X index

Weighting scheme: The index is weighted according to free-float market capitalization with a capping at 10%

Dissemination calendar: STOXX Europe calendar

9.74.2.2. INDEX REVIEW

Selection list:

From the universe only the stocks from France are selected.

STOXX will exclude companies that Sustainalytics identifies to be involved in:

- **Unconventional Oil & Gas**:
  i. **Arctic Oil and Gas Exploration**:
     » >0% revenues from Oil & Gas exploration & extraction in Arctic regions
  ii. **Oil Sands**:

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

» >0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii. **Shale Energy**:
» >0% revenues from shale energy exploration and/or production

The remaining companies are ranked in descending order in terms of their free-float market capitalization. If the number of the remaining companies is fewer than 120, then the remaining companies remain in the selection. Else if the number of the remaining companies is greater than or equal to 120, then the top 120 companies with the highest free-float market capitalization remain in the selection.

Next, the remaining companies are ranked in ascending order in terms of their ESG Risk Rating score, sourced from Sustainalytics ESG Rating dataset. Companies without ESG Risk Rating scores are not eligible. In case multiple companies for a given cut-off date have the same ESG Risk Rating score, priority is given to the one with the highest free-float market capitalization. The top 60 companies with the lowest ESG Risk Rating score remain in the selection.

Composition List: The largest 40 companies in terms of free-float market capitalization are selected for the final composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

9.74.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

9.74.3. iSTOXX FRANCE ESG 40 DECREMENT 50

9.74.3.1. OVERVIEW

The iSTOXX France ESG 40 Decrement 50 index replicates the performance of the gross return version of the iSTOXX France ESG 40 index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the index points being subtracted, the iSTOXX France ESG 40 Decrement 50 index is underperforming the standard gross return index that includes a full dividend investment.

9.74.3.2. DEFINITIONS

Base value and date: 1000 as of 6 Dec 2021

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Underlying Index: iSTOXX France ESG 40 index (EUR Gross Return)
Decrement Amount (in index points): 50
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: EUR

9.74.3.3. CALCULATION

The index value for the iSTOXX France ESG 40 Decrement 50 index is calculated as follows:

$$\mathrm{IV_t} = \left(\mathrm{IV_{t-1}} \times \frac{\mathrm{U_t}}{\mathrm{U_{t-1}}}\right) - \left(\mathrm{D}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where:

$\mathrm{IV_t}$	index value on day t
$\mathrm{U_t}$	index value of underlying index on day t (iSTOXX France ESG 40 EUR Gross Return index)
$\mathrm{ACT(t-1,t)}$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
D	decrement amount in index points (50)

Index calculation uses unrounded values of $\mathrm{IV_{t-1}}$. The index is to be reported and disseminated rounded to 2 decimal places.

9.74.3.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.75. iSTOXX SINGLE STOCK GR FORWARD LOOKING DECREMENT INDICES

9.75.1. OVERVIEW

The iSTOXX Single Stock GR Forward Looking Decrement Indices are a subset of the iSTOXX Single Stock GR Decrement Indices which use forward looking dividend estimates, rather than historical realized dividends, to calibrate the decrement. The indices replicate the performance of 32 individual single stock gross return indices (calculated according to STOXX methodology), assuming a constant dividend markdown in index points subtracted on an accrued basis.

This fixed decrement amount is calibrated using Refinitiv I/B/E/S SmartEstimate dividend forecast data. For each single stock, the mean realized cash dividend over the preceding 5 years plus 2.5 standard deviations is calculated. This is taken as the fixed decrement amount assuming it doesn't exceed the upper cap limit, which is defined as the mean of the annual I/B/E/S SmartEstimate dividend forecasts for the upcoming 5 years. If this is the case, the mean of the annual I/B/E/S SmartEstimate dividend forecasts for the upcoming 5 years is taken as the fixed decrement amount.

Consequently, due to the performance deductions, the iSTOXX Single Stock GR Decrement Indices underperform the individual single stock gross return indices.

9.75.2. DEFINITIONS

Index Name	Underlying Index	Decrement Amount (Index Points)	Base value	Calendar	Base Date	Index Type	Index Currency
iSTOXX Single Stock on BNP Paribas GR Decrement 3.85	Internal Single Stock GR Index	3.85	45.5	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Credit Agricole GR Decrement 0.86	Internal Single Stock GR Index	0.86	45.86	STOXX Europe Calendar	02/01/2007	Price Return	EUR
iSTOXX Single Stock on Saint Gobain GR Decrement 1.38	Internal Single Stock GR Index	1.38	37.48	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Vinci GR Decrement 3.28	Internal Single Stock GR Index	3.28	42.48	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on BMW GR Decrement 4.68	Internal Single Stock GR Index	4.68	80.76	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Volkswagen GR Decrement 7.17	Internal Single Stock GR Index	7.17	51.53	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Daimler GR Decrement 4.43	Internal Single Stock GR Index	4.43	169.03	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Hermes GR Decrement 5.14	Internal Single Stock GR Index	5.14	153.24	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Sanofi GR Decrement 3.22	Internal Single Stock GR Index	3.22	50.02	STOXX Europe Calendar	14/03/2011	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

iSTOXX Single Stock on Pernod Ricard GR Decrement 3.58	Internal Single Stock GR Index	3.58	74.05	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Total GR Decrement 2.76	Internal Single Stock GR Index	2.76	43.66	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Nestle GR Decrement 2.81	Internal Single Stock GR Index	2.81	54.33	STOXX Europe Calendar	14/03/2011	Price Return	CHF
iSTOXX Single Stock on Roche GR Decrement 9.32	Internal Single Stock GR Index	9.32	142.28	STOXX Europe Calendar	14/03/2011	Price Return	CHF
iSTOXX Single Stock on Siemens GR Decrement 4.04	Internal Single Stock GR Index	4.04	90.33	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Allianz GR Decrement 10.44	Internal Single Stock GR Index	10.44	122.16	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Eni GR Decrement 0.88	Internal Single Stock GR Index	0.88	16.99	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on JPM GR Decrement 4.3	Internal Single Stock GR Index	4.3	129.47	STOXX US Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Intel GR Decrement 1.44	Internal Single Stock GR Index	1.44	61.61	STOXX US Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Volvo GR Decrement 7.06	Internal Single Stock GR Index	7.06	23.45	STOXX Europe Calendar	14/03/2011	Price Return	EUR
iSTOXX Single Stock on Engie GR Decrement 0.9	Internal Single Stock GR Index	0.9	24.93	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on Orange GR Decrement 0.74	Internal Single Stock GR Index	0.74	14.56	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on AXA GR Decrement 1.69	Internal Single Stock GR Index	1.69	22.01	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on Danone GR Decrement 2.1	Internal Single Stock GR Index	2.1	56.15	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on BBVA GR Decrement 0.34	Internal Single Stock GR Index	0.34	8.73	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on British American Tobacco GR Decrement 232.97	Internal Single Stock GR Index	232.97	3213.42	STOXX Europe Calendar	01/07/2011	Price Return	GBP
iSTOXX Single Stock on Royal Dutch Shell GR Decrement 1.02	Internal Single Stock GR Index	1.02	22.07	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on BASF GR Decrement 3.43	Internal Single Stock GR Index	3.43	75.04	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on Bayer GR Decrement 2.32	Internal Single Stock GR Index	2.32	56.71	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on Bouygues GR Decrement 1.78	Internal Single Stock GR Index	1.78	32.38	STOXX Europe Calendar	01/07/2011	Price Return	EUR
iSTOXX Single Stock on Société Générale GR Decrement 2.08	Internal Single Stock GR Index	2.08	28.54	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on EDF GR Decrement 0.67	Internal Single Stock GR Index	0.67	16.49	STOXX Europe Calendar	01/02/2012	Price Return	EUR
iSTOXX Single Stock on Kering GR Decrement 14.4	Internal Single Stock GR Index	14.4	214.25	STOXX Europe Calendar	02/01/ 2007	Price Return	EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.75.3. CALCULATION

The index values for the iSTOXX Single Stock Decrement Indices are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.75.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Indices are reflected in the Decrement Indices. The index is terminated when the underlying index is terminated.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.76. EURO iSTOXX 50 NR DECREMENT 2.5% INDEX

9.76.1. OVERVIEW

The EURO iSTOXX 50 NR Decrement 2.5% Index replicates the performance of the Net Return version of the EURO STOXX 50 while assuming a constant dividend markdown. Over the course of a year 2.5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 NR Decrement 2.5% Index underperforms the EURO iSTOXX 50 NR Decrement 2.5% Index that includes net dividend investments.

9.76.2. DEFINITIONS

Base value: 1000
Base date: 31 December 1991
Underlying Index EURO STOXX 50 Net Return Index
Decrement Amount (in percentage points): 2.5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.76.3. CALCULATION

The index value for the EURO iSTOXX 50 NR Decrement 2.5% Index are calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.76.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Indices are reflected in the Decrement Indices.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.77. iSTOXX GLOBAL ESG 150 DECREMENT

9.77.1. OVERVIEW

The iSTOXX Global ESG 150 Decrement index aims to replicate an investment in the iSTOXX Global ESG 150 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

The iSTOXX Global ESG 150 Decrement index is constructed by building and then combining several indices:

I. iSTOXX Global ESG Eurozone Leg 50 EUR (Gross Return)
II. iSTOXX Global ESG US Leg 50 EUR (Gross Return)
III. iSTOXX Global ESG Japan Leg 50 EUR (Gross Return)
IV. iSTOXX Global ESG 150 EUR (Gross Return)

9.77.2. iSTOXX GLOBAL ESG REGIONAL LEG 50

9.77.2.1. OVERVIEW

Available Indices:
iSTOXX Global ESG Eurozone Leg 50
iSTOXX Global ESG US Leg 50
iSTOXX Global ESG Japan Leg 50

Universe: The index universe is defined by
EURO STOXX ESG-X for the iSTOXX Global ESG Eurozone Leg 50
STOXX USA 500 ESG-X for the iSTOXX Global ESG US Leg 50
STOXX Japan 600 ESG-X for the iSTOXX Global ESG Japan Leg 50

Weighting scheme: Free-float market capitalization

Base value: 1000

Base Date: 19 March 2012

Index types and currencies: Price, Net and Gross Return in EUR and USD for the iSTOXX Global ESG Eurozone Leg 50 and the iSTOXX Global ESG US Leg 50.
Price, Net and Gross Return in EUR, USD and JPY for the iSTOXX Global ESG Japan Leg 50.

Dissemination calendar: STOXX Europe calendar for iSTOXX Global ESG Eurozone Leg 50, STOXX American calendar for iSTOXX Global ESG US Leg 50, STOXX Global calendar for iSTOXX Global ESG Japan Leg 50

9.77.2.2. INDEX REVIEW

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Selection list:
From the universe, STOXX will exclude companies that Sustainalytics identifies to be involved in:

- **Unconventional Oil & Gas**:
  - iv) **Artic Oil and Gas Exploration**:
    »>0% revenues Oil & Gas exploration & extraction in Arctic regions
  - v) **Oil Sands**:
    »>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
  - vi) **Shale Energy**:
    »>0% revenues from shale energy exploration and/or production

The remaining companies are ranked in descending order in terms of their free-float market capitalization. The top 250 companies for the iSTOXX Global ESG Eurozone Leg 50, the top 250 companies for the iSTOXX Global ESG US Leg 50 and the top 200 companies for the iSTOXX Global ESG Japan Leg 50, with the highest free-float market capitalization remain in the selection process.
Next the remaining companies are ranked in descending order in terms of their ESG score, sourced from Sustainalytics ESG Rating dataset. If this information is not available for a company, an ESG score of 0 is assigned. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the highest free-float market capitalization. The top 50% companies in each leg remain in the selection process.

Composition list: The largest 50 companies for the iSTOXX Global ESG Eurozone Leg 50 and the largest 50 companies for the iSTOXX Global ESG US Leg 50 and iSTOXX Global ESG Japan Leg 50, in terms of free-float market capitalization, in each respective selection list, are selected for the final composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

9.77.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off companies are not added permanently

9.77.3. iSTOXX GLOBAL ESG 150

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.77.3.1. OVERVIEW

The iSTOXX Global ESG 150 is a composite index obtained by rebalancing the iSTOXX Global ESG Eurozone Leg 50, the iSTOXX Global ESG US Leg 50 and the iSTOXX Global ESG Japan Leg 50 indices respectively to 60%, 30% and 10% on a daily basis.

Base value: 1000
Base date: 19 March 2012
Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe calendar, STOXX US Country calendar and STOXX Japan Country calendar

9.77.3.2. INDEX FORMULA

$$IV_t = IV_{t-1} \cdot \sum_{i=1}^{3} w_i \cdot \frac{U_{t,i}}{U_{t-1,i}}$$

w_i = target weight of sub-index i
$U_{t,i}$ = close value of sub-index i on day t
IV_t = value of iSTOXX Global ESG 150 index on day t ($IV_{19.03.2012}$ = 1000)

i	Sub-index name	w_i
1	iSTOXX Global ESG Eurozone Leg 50	0.6
2	iSTOXX Global ESG US Leg 50	0.3
3	iSTOXX Global ESG Japan Leg 50	0.1

9.77.4. iSTOXX GLOBAL ESG 150 DECREMENT

9.77.4.1. OVERVIEW

The iSTOXX Global ESG 150 Decrement index aims to replicate an investment in the iSTOXX Global ESG 150 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

9.77.4.2. DEFINITIONS

Base value: 1070
Base date: 29 November 2021
Underlying Index: iSTOXX Global ESG 150 EUR (GR) Index
Decrement Amount (in index points): 50
Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe calendar, STOXX US Country calendar and STOXX Japan Country calendar
Index Type: Price
Index Currency: EUR

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.77.4.3. INDEX CALCULATION

The iSTOXX Global ESG 150 Decrement EUR (P) is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.78. EURO iSTOXX BANKS NR DECREMENT 5% INDEX

9.78.1. OVERVIEW

The EURO iSTOXX Banks NR Decrement 5% Index replicates the performance of the EURO STOXX Banks NR Index while assuming a constant dividend markdown. Over the course of a year 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

9.78.2. DEFINITIONS

Base value: 95.79
Base date: 31 December 1986
Underlying Index: EURO STOXX Banks Index
Decrement Amount (in percentage): 5
Index Type: Price
Index Currency: EUR
Dissemination calendar : STOXX Europe Calendar

9.78.3. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (EURO iSTOXX Banks NR Decrement 5% Index)
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (5%)

9.78.4. ONGOING MAINTENANCE

All corporate actions and events handled in EURO STOXX Banks Index – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.79. iSTOXX GLOBAL TRANSFORMATION SELECT 30 NR DECREMENT 5% INDICES

9.79.1. OVERVIEW

The iSTOXX Global Transformation Select 30 NR Decrement 5% Indices replicate the performance of the Net Return version of the iSTOXX Global Transformation Select 30 while assuming a constant dividend markdown. Over the course of a year 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Decrement Amount (in Percentage): 5
Dissemination calendar: STOXX Europe calendar

Underlying Index	Index Type & Currency	Index Rounding	Base Value and Date
iSTOXX Global Transformation Select 30 (EUR Net Return) - IXGTRSR	Price, EUR	2 d.p.	100 on 18/06/2012
iSTOXX Global Transformation Select 30 (USD Net Return) - IXGTRSV	Price, USD	2 d.p.	100 on 18/06/2012.

9.79.2. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\,\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (Respective underlyings as given in above table))
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (5%)

9.79.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Global Transformation Select 30 (Net Return) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.80. iSTOXX EUROPE 600 OIL & GAS NR DECREMENT 5% INDEX

9.80.1. OVERVIEW

The iSTOXX Europe 600 Oil & Gas NR Decrement 5% Index replicates the performance of the Net Return version of the STOXX Europe 600 Oil & Gas Index while assuming a constant dividend markdown. Over the course of a year 5% of the performance of the underlying in-dex is gradually subtracted according to the corresponding day-to-day year fraction.

Decrement Amount (in Percentage): 5
Dissemination calendar: STOXX Europe calendar

Underlying Index	Index Type & Currency	Index Rounding	Base Value and Date
STOXX Europe 600 Oil & Gas Index - SXER	Price, EUR	2 d.p.	54.75 on 31/12/1986

9.80.2. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\,\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (SXER Index)
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (5%)

9.80.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Europe 600 Oil & Gas (Net Return) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.81. EURO iSTOXX 50 ESG NR DECREMENT 4.75% INDEX

9.81.1. OVERVIEW

The EURO iSTOXX 50 ESG NR Decrement 4.75% Index replicates the performance of the Net Return version of the EURO STOXX 50 ESG (SX5TESG) Index while assuming a constant dividend markdown. Over the course of a year 4.75% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Base value and date: 1000 on 19 Mar 2012
Index Type and Currencies: Price in EUR
Index Rounding: 2 d.p.
Underlying Index: EURO STOXX 50 ESG Index (SX5TESG)
Decrement Amount (in Percentage): 4.75
Dissemination calendar: STOXX Europe calendar

9.81.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying Index on day t (EURO STOXX 50 ESG Index (SX5TESG))
U_{t-1}	index value of underlying index on day t-1 (EURO STOXX 50 ESG Index (SX5TESG))
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (4.75%)

9.81.3. ONGOING MAINTENANCE

All corporate actions and events handled in the EURO STOXX 50 ESG Index (EUR Net Return Index) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.82. iSTOXX EUROZONE ESG 50 NR DECREMENT 5% INDEX

9.82.1. OVERVIEW

The iSTOXX® Eurozone ESG 50 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX® Global ESG Eurozone Leg 50 Index assuming a constant 5% per-formance deduction per annum. The performance deduction accrues constantly on a daily basis. Consequently, due to the percentage of performance deduction, the iSTOXX® Eurozone ESG 50 NR Decrement 5% Index underperforms the iSTOXX® Global ESG Eurozone Leg 50 Net Return Index that includes net dividend investments.

Base value and date: 1000 on 19 Mar 2012
Index Type and Currencies: Price in EUR
Index Rounding: 2 d.p.
Underlying Index: iSTOXX® Global ESG Eurozone Leg 50 Index EUR Net Return Index
Decrement Amount (in Percentage): 5
Dissemination calendar: STOXX Europe calendar

9.82.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (iSTOXX® Global ESG Eurozone Leg 50 Index EUR Net Return Index, IXGEEL5R)
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (5%)

9.82.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX® Global ESG Eurozone Leg 50 Index (EUR Net Return Index) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.83. iSTOXX EUROPE 600 OIL & GAS FUTURE ROLL TR DECREMENT 5% INDEX

9.83.1. OVERVIEW

The iSTOXX Europe 600 Oil & Gas Futures Roll TR Decrement 5% Index replicates the performance of the Total Return version of the STOXX Europe 600 Oil and Gas Futures Roll Index while assuming a constant dividend markdown. Over the course of a year 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Index Type and Currency: Price. EUR.
Index Rounding: Index values rounded to 3 d.p.
Base Value and Date: 1000 on 30/06/2004.
Underlying Index: STOXX Europe 600 Oil and Gas Futures Roll Index
Decrement Amount (in Percentage): 5
Dissemination calendar: STOXX Eurex calendar

9.83.2. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\,\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (STOXX Europe 600 Oil and Gas Futures Roll Index)
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (5%)

9.83.3. ONGOING MAINTENANCE

All corporate actions and events handled in the STOXX Europe 600 Oil and Gas Futures Roll Index – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.84. EURO iSTOXX® 50 FUTURES ROLL TR DECREMENT 3.75% INDEX

9.84.1. OVERVIEW

The EURO iSTOXX® 50 Futures Roll TR Decrement 3.75% Index replicates the performance of the Total Return version of the EURO STOXX® 50 Futures Roll Index while assuming a constant performance deduction. Over the course of a year, 3.75% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Index Type and Currency: Price, EUR.
Index Rounding: Index values rounded to 3 d.p.
Base Value and Date: 1000 on 29/12/2000.
Underlying Index: EURO STOXX® 50 Futures Roll Index (EUR Total Return)
Decrement Amount (in Percentage): 3.75
Dissemination calendar: STOXX Eurex calendar

9.84.2. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\,\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (EURO STOXX® 50 Futures Roll Index)
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (3.75%)

9.84.3. ONGOING MAINTENANCE

All corporate actions and events handled in the EURO STOXX® 50 Futures Roll Index (Total Return) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.85. iSTOXX GLOBAL CLIMATE CHANGE NR DECREMENT 4.5% INDEX

9.85.1. OVERVIEW

The iSTOXX Global Climate Change ESG NR Decrement 4.5% Index replicates the performance of the net return version of iSTOXX Global Climate Change ESG Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis. Consequently, due to the percentage of performance deduction, the iSTOXX Global Climate Change ESG NR Decrement 4.5% Index underperforms the iSTOXX Global Climate Change ESG Net Return Index that includes net dividend investments.

Base value and date: 1000 on 19 Mar 2018
Index Type and Currencies: Price in EUR
Index Rounding: 2 d.p.
Underlying Index: iSTOXX Global Climate Change EUR Net Return Index
Decrement Amount (in Percentage points): 4.5
Dissemination calendar: STOXX Europe calendar

9.85.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying index on day t (iSTOXX Global Climate Change EUR Net Return Index)
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (4.5%)

9.85.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Global Climate Change EUR Net Return Index – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.86. iSTOXX EUROZONE ESG 50 GR DECREMENT 50 INDEX

9.86.1. OVERVIEW

The iSTOXX Eurozone ESG 50 GR Decrement 50 index replicates the performance of the gross return version of the iSTOXX Global ESG Eurozone leg 50 index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently. due to the index points being subtracted. the iSTOXX Eurozone ESG 50 GR Decrement 50 index is underperforming the standard gross return index that includes a full dividend investment.

Base value and date: 846.63 as of 12 May 2022
Underlying Index: iSTOXX Global ESG Eurozone leg 50 index (EUR Gross Return)
Decrement Amount (in index points): 50
Dissemination calendar: STOXX Europe calendar
Index Type: Price
Index Currency: EUR

9.86.2. INDEX FORMULA

The index value for the iSTOXX Eurozone ESG 50 GR Decrement 50 index is calculated as follows:

$$\mathrm{IV_t} = \left(\mathrm{IV_{t-1}} \times \frac{\mathrm{U_t}}{\mathrm{U_{t-1}}}\right) - \left(\mathrm{D}\frac{\mathrm{ACT(t-1.t)}}{365}\right)$$

Where:

$\mathrm{IV_t}$	index value on day t
$\mathrm{U_t}$	index value of underlying index on day t (iSTOXX Global ESG Eurozone leg 50 index EUR Gross Return index)
$\mathrm{ACT(t-1.t)}$	number of actual calendar day between t-1 and t (usually 1. after weekends 3)
D	decrement amount in index points (50)

Index calculation uses unrounded values of $\mathrm{IV_{t-1}}$. The index is to be reported and disseminated rounded to 2 decimal places.

9.86.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Global ESG Eurozone leg 50 index (EUR Gross Return Index) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.87. iSTOXX UK ESG EQUAL WEIGHT FIXED DEDUCTION INDEX

9.87.1. OVERVIEW

The iSTOXX UK ESG Equal Weight Fixed Deduction index replicates the performance of the iSTOXX UK ESG Equal Weight Net of Financing index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an actual/365 fixed day count convention). Consequently, due to the index points deduction, the iSTOXX UK ESG Equal Weight Fixed Deduction index underperforms the iSTOXX UK ESG Equal Weight Net of Financing index.

The iSTOXX UK ESG Equal Weight Net of Financing index is derived from the gross return version of the iSTOXX UK ESG Equal Weight.

9.87.2. iSTOXX UK ESG EQUAL WEIGHT INDEX

The iSTOXX UK ESG Equal Weight Index aims to replicate an investment in the top 50% stocks in terms of ESG Risk Rating of the STOXX UK Total Market Index. Companies that are non-compliant according to Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are not eligible. Additionally, the eligible companies should not be involved in Unconventional Oil & Gas, Tobacco production, Thermal Coal, Adult Entertainment and Gambling.
The constituents are equally weighted, and the index is reviewed on a quarterly basis.

9.87.2.1. OVERVIEW

Universe: The index universe is defined by all the stocks included in the STOXX UK Total Market Index, as observed on the review effective date.
Weighting scheme: The indices are price-weighted with a weighting factor to achieve an equal-Weighting.
Base value and date: 100 on Mar 24, 2014.
Index types and currencies: Price, Net and Gross Return in EUR and GBP.
Dissemination calendar: STOXX Europe calendar.

9.87.2.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, the companies of the STOXX UK Total Market Index are then screened for the following indicators:

i. 3-month Average Daily Traded Volume (ADTV) in GBP
ii. Tobacco, Thermal Coal, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Adult Entertainment, Gambling
iii. ESG Risk Rating

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

If any of the fields above have missing information for a stock, then the company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil the conditions below:

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.
The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale of controversial weapons
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to be tobacco producers (0% revenue threshold).

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>5% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

Unconventional Oil & Gas:
i) **Artic Oil and Gas Exploration**:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
ii) **Oil Sands**:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
iii) **Shale Energy**:
»>0% revenues from shale energy exploration and/or production

Adult Entertainment:
STOXX will exclude companies that Sustainalytics identifies to have:

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

»>5% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>5% significant ownership of another company with involvement in the production of adult entertainment and/or owns/operates adult entertainment establishments

Gambling:
STOXX will exclude companies that Sustainalytics identifies to have:
»>5% revenues from owning and/or operating a gambling establishment
»>5% significant ownership of another company with involvement in owning and/or operating a gambling establishment
»>5% revenues from manufacturing specialized equipment used exclusively for gambling

Minimum Liquidity:
3-month Average Daily Traded Volume (ADTV) equal to or exceeding 5 million GBP

Composition list: The final composition list is derived as follows:

All Stocks from the selection list are sorted in ascending order in terms of their ESG Risk Rating as defined by Sustainalytics.
The top 50% of the companies (having thus the lowest ESG Risk Rating), rounded down to the previous integer, are selected with the additional constrain that at least 50 and no more than 100 companies are selected. In case of two companies having same ESG Risk Rating, priority is given to the company having highest free-float market capitalization.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all data used in the selection process is the last dissemination day of the month prior to the review month.

Weighting cap factors: The constituents are equally weighted

$$wi = \frac{1}{N}$$

where,
wi target weight of component i
N Number of components in the index

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:
Weighting factor = (100,000,000,000 x wi / pi), rounded to the nearest integer value.

9.87.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.
Fast exit: Not applicable.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Fast entry: Not applicable.
Spin-offs: A spin-off companies are not added permanently.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

9.87.3. iSTOXX UK ESG EQUAL WEIGHT NET OF FINANCING INDEX

9.87.3.1. OVERVIEW

The iSTOXX UK ESG Equal Weight Net of Financing Index replicates the performance of the gross return version of the iSTOXX UK ESG Equal Weight Index after deducing the cost of financing measured as the difference between the returns of Reference Index and the Reference Future Index.

9.87.3.2. DEFINITIONS

Base value and date: 1000 on 24 Mar 2014
Index Type and Currencies: Price in GBP
Index Rounding: 2 d.p.
Underlying Index: iSTOXX UK ESG Equal Weight GBP Gross Return Index
Dissemination calendar: STOXX Europe calendar

9.87.3.3. INDEX CALCULATION

The Net of Financing Index values are calculated as follows:

$$\mathrm{IV_t} = IV_{t-1} * \left(\frac{U_t}{U_{t-1}} - F(t-1) * \frac{ACT(t-1.t)}{365} \right)$$

Where:
$\mathrm{IV_t}$ is the index value on day t
U(t) is the underlying index: iSTOXX UK ESG Equal Weight GBP Gross Return
$ACT(t-1,t)$ is number of actual calendar day between t-1 and t
F(t-1) is the net of financing calculated as

$$F(t) = \left(\frac{\frac{RI(t)}{RI(t-20)} - \frac{RFI(t)}{RFI(t-20)}}{\frac{Act(t-20,t)}{365}} \right) * \frac{EURGBP(t)}{EURGBP(t-20)}$$

Where
RI(t) the Reference Index: the EURO STOXX 50 EUR Gross Return
RFI(t) the Reference Future Index: The EURO STOXX 50 Future Roll Index (SX5EFETR)

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.87.4. iSTOXX UK ESG EQUAL WEIGHT FIXED DEDUCTION INDEX

9.87.4.1. OVERVIEW

The iSTOXX UK ESG Equal Weight Fixed Deduction Index replicates the performance of the iSTOXX UK ESG Equal Weight Net of Financing Index assuming a constant dividend markdown expressed in index points. The performance deduction accrues constantly on a daily basis. Consequently, due to the performance deduction, the iSTOXX UK ESG Equal Weight Fixed Deduction Index underperforms the iSTOXX UK ESG Equal Weight Net of Financing Index

9.87.4.2. DEFINITIONS

Base value and date: 1085 on 4 Jan 2022
Index Type and Currencies: Price in GBP
Index Rounding: 2 d.p.
Underlying Index: iSTOXX UK ESG Equal Weight Net of Financing Index
Decrement Amount (in Index points): 50
Dissemination calendar: STOXX Europe calendar

9.87.4.3. INDEX CALCULATION

The iSTOXX UK ESG Equal Weight Fixed Deduction Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.88. iSTOXX EUROPE 600 AUTOMOBILES & PARTS GR DECREMENT 50 INDEX

9.88.1. OVERVIEW

The iSTOXX Europe 600 Automobiles & Parts GR Decrement 50 Index replicates the returns of an investment into the underlying index (STOXX Europe 600 Automobiles & Parts Gross Return Index) with a constant dividend markdown expressed in index points. This is subtracted on an accrued basis and as a result the decrement index will underperform compared to the underlying index.

Index types and currencies: EUR, Price
Base values and dates: 770.51 on 29/12/2000
Underlying Index: STOXX Europe 600 Automobiles & Parts (EUR Gross Return)
Decrement Amount (in index points): 50
Dissemination calendar: STOXX Europe calendar

9.88.2. INDEX FORMULA

The Index values for iSTOXX Europe 600 Automobiles & Parts GR Decrement 50 Index are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \left(\mathrm{D}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

where,

$\mathrm{IV_t}$	index value on day t
$\mathrm{IV_0}$	index value on base date
$\mathrm{IV_{t-1}}$	Index value on the day immediately preceding calculation day t
$\mathrm{U_t}$	index value of underlying index on day t (STOXX Europe 600 Automobiles & Parts Gross Return Index)
$\mathrm{U_{t-1}}$	index value of underlying index (STOXX Europe 600 Automobiles & Parts Gross Return Index) on calculation day t-1
$\mathrm{ACT(t-1,t)}$	number of actual calendar day between t-1 and t
D	decrement amount expressed in index points (50)

9.88.3. ONGOING MAINTENANCE

All corporate actions and events handled in the STOXX Europe 600 Automobiles & Parts index (EUR Gross Return Index) – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.89. EURO iSTOXX 50 DIGITAL SECURITY TILTED NR DECREMENT 4.5% INDEX

9.89.1. OVERVIEW

The EURO iSTOXX 50 Digital Security Tilted NR Decrement 4.5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Digital Security Tilted Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Digital Security Tilted NR Decrement 4.5% Index underperforms the EURO iSTOXX 50 Digital Security Tilted Net Return Index that includes net dividend investments.

9.89.1. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Digital Security Tilted EUR Net Return Index
Decrement Amount (in percentage points): 4.5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.89.2. CALCULATION

The index value for the EURO iSTOXX 50 Digital Security Tilted NR Decrement 4.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.89.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.90. EURO iSTOXX 50 BROAD INFRASTRUCTURE TILTED NR DECREMENT 4.5% INDEX

9.90.1. OVERVIEW

The EURO iSTOXX 50 Broad Infrastructure Tilted NR Decrement 4.5% Index replicates the performance of the net return version of the EURO iSTOXX 50 Broad Infrastructure Tilted Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Consequently, due to the percentage of performance deduction, the EURO iSTOXX 50 Broad Infrastructure Tilted NR Decrement 4.5% Index underperforms the EURO iSTOXX 50 Broad Infrastructure Tilted Net Return Index that includes net dividend investments.

9.90.2. DEFINITIONS

Base value: 1000
Base date: 18 June 2012
Underlying Index: EURO iSTOXX 50 Broad Infrastructure Tilted EUR Net Return Index
Decrement Amount (in percentage points): 4.5%
Index Type: Price
Index Currency: EUR
Dissemination calendar: STOXX Europe calendar

9.90.3. CALCULATION

The index value for the EURO iSTOXX 50 Broad Infrastructure Tilted NR Decrement 4.5% Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9.90.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.91. iSTOXX BANK AUTO & BASIC RESOURCES EW GR DECREMENT 50 INDEX

9.91.1. OVERVIEW

The iSTOXX Bank Auto & Basic Resources EW GR Decrement 50 Index measures the performance of the Gross Return version of iSTOXX Bank Auto & Basic Resources EW Index with a constant dividend markdown expresses in index points. This is subtracted on an accrued basis and as a result the decrement index will underperform compared to the underlying index.

Base Value and Date: 850.97 on Dec 31, 2000
Index Type and Currency: Price Return, EUR.
Underlying Index: iSTOXX Bank Auto & Basic Resources EW Index (GR)
Decrement (in Index Points): 50
Dissemination calendar: STOXX Europe calendar

9.91.1. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \left(\mathrm{D}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where:

$\mathrm{IV_t}$	index value on day t
$\mathrm{U_t}$	index value of underlying index on day t (iSTOXX Bank Auto & Basic Resources EW Index)
$\mathrm{ACT(t-1.t)}$	number of actual calendar day between t-1 and t (usually 1. after weekends 3)
D	decrement amount in index points (50)

9.91.1. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Bank Auto & Basic Resources EW Index – no additional precautions needed.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.92. iSTOXX TRANSATLANTIC MEGATRENDS ESG 60 GR DECREMENT 50 INDEX

9.92.1. OVERVIEW

The iSTOXX Transatlantic Megatrends ESG 60 GR Decrement 50 index aims to replicate an investment in the iSTOXX Transatlantic Megatrends ESG 60 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

The iSTOXX Transatlantic Megatrends ESG 60 GR Decrement 50 index is constructed by building and then combining several indices:

I. iSTOXX USA Megatrends ESG 30 Index
II. iSTOXX Eurozone Megatrends ESG 30 Index
III. iSTOXX Transatlantic Megatrends ESG 60 Index

9.92.2. iSTOXX USA MEGATRENDS ESG 30 INDEX

9.92.2.1. OVERVIEW

The iSTOXX USA Megatrends ESG 30 Index tracks companies that are exposed to a defined set of megatrends in the USA. The index constituents are linked to one or more of the following themes: Digitalization and Robotics, Infrastructure and Ecological Transition, Well-being, Demographic Transformation.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the respective themes.

Universe: The index universe is defined by STOXX USA 500 ESG-X.

Weighting scheme: The indices are weighted according to free-float market capitalization considering minimum weight at 0.1% and maximum weight at 6%.

Base value and date: 1000 on Mar 24. 2014.

Index types and currencies: Price. Net and Gross Return in EUR and USD.

Dissemination calendar : STOXX Americas calendar

9.92.2.1. INDEX REVIEW

Selection:
From the universe. STOXX will exclude companies that Sustainalytics identifies to be involved in:

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

a. **Unconventional Oil & Gas**:

i) **Artic Oil and Gas Exploration:**
»>5% revenues Oil & Gas exploration & extraction in Arctic regions

ii) **Oil Sands:**
»>5% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) **Shale Energy:**
»>5% revenues from shale energy exploration and/or production

b. **Thermal Coal:**

i) **Thermal Coal Extraction:**
»>5% revenues from thermal coal extraction (including thermal coal mining and exploration)

ii) **Thermal Coal Power Generation-Capacity:**
»>5% power generation capacity: coal-fired electricity. heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

The remaining companies are ranked in ascending order in terms of their ESG Risk Rating score, sourced from Sustainalytics ESG Rating dataset. Companies without ESG Risk Rating scores are not eligible. In case multiple companies for a given cut-off date have the same ESG Risk Rating score. priority is given to the one with the highest free-float market capitalization. The top 250 companies with the lowest ESG Risk Rating score remain in the selection.

Next, companies with a maximum revenue exposure[6] in one of the RBICS sectors associated (see table below) are selected. If this information is missing, then the company is excluded from the selection process.

List of RBICS sectors associated for the purposes of component selection:

Nr	Sector
1	Accessories Retail
2	Acute Care and Institutional Patient Care
3	Air and Water Transportation Operators
4	Air. Liquid and Gas Control Equipment
5	Ambulatory and Outpatient Diagnostic Patient Care
6	Analog and Mixed Signal Semiconductors
7	Apparel and Footwear Production
8	Apparel Retail
9	Architectural and Infrastructure Component Makers
10	Arts. Entertainment and Recreation Providers
11	Automotive and Marine Electronics Manufacturing

Nr	Sector
72	Insurance Brokerage
73	Interconnect Electronic Components
74	International Satellite Services
75	Internet Hosting Services
76	Internet Support Services
77	Investment Holding Companies
78	IT Hardware Distributors
79	IT Infrastructure Software
80	Life and Health Insurance
81	Long-Term Care Facilities
82	Memory Semiconductors

[6] Max. aggregated revenue exposure to Level 4 Factset RBICS data is calculated for each company. Derived from the granular Level 6 sectors by summing over the Level 6 sector exposures that belong to the same Level 4 sectors for each company

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

12	Broadcast Media Services
13	Building Materials and Garden Supply Stores
14	Building Materials Distribution
15	Business Communications Equipment
16	Clinical Diagnostics Devices
17	Computer Peripherals
18	Computer Systems
19	Construction Wood Products
20	Consumer Data and Services
21	Consumer Video Electronics Equipment
22	Contract Electronic Manufacturing
23	Cosmetics Products
24	Data Storage Hardware
25	Department Stores
26	Design and Engineering Software
27	Discount Stores
28	Discrete Semiconductors
29	Diversified Biopharmaceuticals
30	Diversified Electronic Components
31	Diversified Healthcare Services
32	Diversified Insurance
33	Diversified Materials
34	Diversified Medical Devices and Instruments
35	Drug Delivery Devices
36	Electric Utilities
37	Electronics Retail
38	Enterprise Management Software
39	Entertainment and Programming Providers
40	Entertainment Retail
41	Equipment and Supplies Distributors
42	Express Couriers
43	Factory Automation Equipment
44	Finance Software and Services
45	Footwear Retail
46	Furniture and Home Furnishings Stores
47	Games Software
48	General and Mixed-Type Software
49	General Computer Hardware
50	General Construction Materials Manufacturing
51	General Personal Care and Cleaning Products Makers
52	General Semiconductors
53	General Waste Collection
54	Hardware Components
55	Hazardous Materials Disposal
56	Health Plan Providers
57	Healthcare Administrative Support Services
58	Healthcare Distributors
59	Heavy Building Material and Aggregate Products
60	Hematology Biopharmaceuticals
61	Home and Office Furnishings Manufacturing
62	Home and Office Software
63	Home Builders
64	Household Appliances and Furnishings Production
65	Industrial Machine Parts and Support Equipment
66	Industry-Specific IT Services

83	Mixed International Telecommunications Services
84	Multi-Delivery-Type Patient Care
85	Multi-National Water Utilities
86	Multinational Wholesale Power
87	Multi-Type Apparel and Accessories Production
88	Natural Gas Pipeline and Storage Services
89	Natural Gas Utilities
90	Natural Resource and Construction Machinery Makers
91	Neurology Biopharmaceuticals
92	Nutritional Health Pharmaceuticals
93	Off-Price Retailers
94	Oncology Biopharmaceuticals
95	Ophthalmology Biopharmaceuticals
96	Other Ambulatory and Outpatient Patient Care
97	Other Communications Equipment
98	Other Containers and Packaging Products
99	Other Electrical Equipment/Power Systems Makers
100	Other Health and Personal Care Retail
101	Other Healthcare Support Services
102	Other International Wholesale Power
103	Other Leisure Goods
104	Other Machinery Manufacturing
105	Outsourced Drug Services
106	Pan-Europe Mixed Telecommunications Services
107	Paper and Paper Products
108	Paper Packaging Products
109	Personal Care Fragrance Products
110	Pet and Pet Supply Retail
111	Pharmacies and Drug Retailers
112	Power Generation and Support Products
113	Printing/Publishing Industry Electronics Makers
114	Processor Semiconductors
115	Programmable Logic and ASIC Semiconductors
116	Property Owners
117	Reinsurance
118	Respiratory System Biopharmaceuticals
119	Restaurants and Bars
120	Road and Rail Transportation Operators
121	Satellite Equipment
122	Semiconductor Manufacturing Capital Equipment
123	Skin Care Products
124	Specialized Medical Devices
125	Specialized Semiconductors
126	Sporting and Athletic Goods
127	System-Specific General Medical Devices
128	Telecommunications Carrier Services
129	Telecommunications Industry Software and Services
130	Test and Measurement Equipment
131	Tools and Outdoor Care Equipment
132	Travel Arrangement and Reservation Services
133	United States Satellite Services
134	United States Water Utilities
135	United States Wholesale Power
136	Warehouse Clubs and Superstores
137	Web-Based Data and Services

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

67	Industry-Specific Software
68	Infectious Disease Biopharmaceuticals
69	Information Technology Consulting
70	Infrastructure and Network Consulting Services
71	Infrastructure Construction/Contracting Services

138	Wide Area Networking Equipment
139	Wireless Core Infrastructure Equipment
140	Wireless Mobile Equipment
141	Wireless Services
142	Wireline Services

Composition list: The largest 30 companies in terms of free-float market capitalization are selected.

Review frequency: The reviews are conducted on a quarterly basis in March. June. September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

Factset RBICS data is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cut-off date is used.

Weighting scheme The indices are weighted according to free-float market capitalization considering minimum weight at 0.1% and maximum weight at 6%.

9.92.2.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off companies are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

9.92.3. iSTOXX EUROZONE MEGATRENDS ESG 30 INDEX

9.92.3.1. OVERVIEW

The iSTOXX Eurozone Megatrends ESG 30 Index tracks companies that are exposed to a defined set of megatrends in the Eurozone. The index constituents are linked to one or more of the following themes: Digitalization and Robotics, Infrastructure and Ecological Transition, Well-being, Demo-graphic Transformation.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the respective themes.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Universe: The index universe is defined by EURO STOXX ESG-X.

Weighting scheme: The indices are weighted according to free-float market capitalization considering minimum weight at 0.1% and maximum weight at 6%.

Base value and date: 1000 on Mar 24. 2014

Index types and currencies: Price. Net and Gross Return in EUR.

Dissemination calendar: STOXX Europe calendar

9.92.3.1. INDEX REVIEW

Selection:

From the universe. STOXX will exclude companies that Sustainalytics identifies to be involved in:

a. **Unconventional Oil & Gas**:

i) **Artic Oil and Gas Exploration**:
»>5% revenues Oil & Gas exploration & extraction in Arctic regions

ii) **Oil Sands**:
»>5% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) **Shale Energy**:
»>5% revenues from shale energy exploration and/or production

b. **Thermal Coal:**

i) **Thermal Coal Extraction:**
»>5% revenues from thermal coal extraction (including thermal coal mining and exploration)

ii) **Thermal Coal Power Generation-Capacity:**
»>5% power generation capacity: coal-fired electricity. heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

The remaining companies are ranked in ascending order in terms of their ESG Risk Rating score, sourced from Sustainalytics ESG Rating dataset. Companies without ESG Risk Rating scores are not eligible. In case multiple companies for a given cut-off date have the same ESG Risk Rating score. priority is given to the one with the highest free-float market capitalization. The top 150 companies with the lowest ESG Risk Rating score remain in the selection.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Next. companies with a maximum revenue exposure[7] in one of the RBICS sectors associated (see table below) are selected. If this information is missing, then the company is excluded from the selection process.

List of RBICS sectors associated for the purposes of component selection:

Nr	Sector
1	Accessories Retail
2	Acute Care and Institutional Patient Care
3	Air and Water Transportation Operators
4	Air. Liquid and Gas Control Equipment
5	Ambulatory and Outpatient Diagnostic Patient Care
6	Analog and Mixed Signal Semiconductors
7	Apparel and Footwear Production
8	Apparel Retail
9	Architectural and Infrastructure Component Makers
10	Arts. Entertainment and Recreation Providers
11	Automotive and Marine Electronics Manufacturing
12	Broadcast Media Services
13	Building Materials and Garden Supply Stores
14	Building Materials Distribution
15	Business Communications Equipment
16	Clinical Diagnostics Devices
17	Computer Peripherals
18	Computer Systems
19	Construction Wood Products
20	Consumer Data and Services
21	Consumer Video Electronics Equipment
22	Contract Electronic Manufacturing
23	Cosmetics Products
24	Data Storage Hardware
25	Department Stores
26	Design and Engineering Software
27	Discount Stores
28	Discrete Semiconductors
29	Diversified Biopharmaceuticals
30	Diversified Electronic Components
31	Diversified Healthcare Services
32	Diversified Insurance
33	Diversified Materials
34	Diversified Medical Devices and Instruments
35	Drug Delivery Devices
36	Electric Utilities
37	Electronics Retail
38	Enterprise Management Software
39	Entertainment and Programming Providers
40	Entertainment Retail
41	Equipment and Supplies Distributors

Nr	Sector
72	Insurance Brokerage
73	Interconnect Electronic Components
74	International Satellite Services
75	Internet Hosting Services
76	Internet Support Services
77	Investment Holding Companies
78	IT Hardware Distributors
79	IT Infrastructure Software
80	Life and Health Insurance
81	Long-Term Care Facilities
82	Memory Semiconductors
83	Mixed International Telecommunications Services
84	Multi-Delivery-Type Patient Care
85	Multi-National Water Utilities
86	Multinational Wholesale Power
87	Multi-Type Apparel and Accessories Production
88	Natural Gas Pipeline and Storage Services
89	Natural Gas Utilities
90	Natural Resource and Construction Machinery Makers
91	Neurology Biopharmaceuticals
92	Nutritional Health Pharmaceuticals
93	Off-Price Retailers
94	Oncology Biopharmaceuticals
95	Ophthalmology Biopharmaceuticals
96	Other Ambulatory and Outpatient Patient Care
97	Other Communications Equipment
98	Other Containers and Packaging Products
99	Other Electrical Equipment/Power Systems Makers
100	Other Health and Personal Care Retail
101	Other Healthcare Support Services
102	Other International Wholesale Power
103	Other Leisure Goods
104	Other Machinery Manufacturing
105	Outsourced Drug Services
106	Pan-Europe Mixed Telecommunications Services
107	Paper and Paper Products
108	Paper Packaging Products
109	Personal Care Fragrance Products
110	Pet and Pet Supply Retail
111	Pharmacies and Drug Retailers
112	Power Generation and Support Products

[7] Max. aggregated revenue exposure to Level 4 Factset RBICS data for each company. Derived from the granular Level 6 sectors by summing over the Level 6 sector exposures that belong to the same Level 4 sectors for each company

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

42	Express Couriers
43	Factory Automation Equipment
44	Finance Software and Services
45	Footwear Retail
46	Furniture and Home Furnishings Stores
47	Games Software
48	General and Mixed-Type Software
49	General Computer Hardware
50	General Construction Materials Manufacturing
51	General Personal Care and Cleaning Products Makers
52	General Semiconductors
53	General Waste Collection
54	Hardware Components
55	Hazardous Materials Disposal
56	Health Plan Providers
57	Healthcare Administrative Support Services
58	Healthcare Distributors
59	Heavy Building Material and Aggregate Products
60	Hematology Biopharmaceuticals
61	Home and Office Furnishings Manufacturing
62	Home and Office Software
63	Home Builders
64	Household Appliances and Furnishings Production
65	Industrial Machine Parts and Support Equipment
66	Industry-Specific IT Services
67	Industry-Specific Software
68	Infectious Disease Biopharmaceuticals
69	Information Technology Consulting
70	Infrastructure and Network Consulting Services
71	Infrastructure Construction/Contracting Services

113	Printing/Publishing Industry Electronics Makers
114	Processor Semiconductors
115	Programmable Logic and ASIC Semiconductors
116	Property Owners
117	Reinsurance
118	Respiratory System Biopharmaceuticals
119	Restaurants and Bars
120	Road and Rail Transportation Operators
121	Satellite Equipment
122	Semiconductor Manufacturing Capital Equipment
123	Skin Care Products
124	Specialized Medical Devices
125	Specialized Semiconductors
126	Sporting and Athletic Goods
127	System-Specific General Medical Devices
128	Telecommunications Carrier Services
129	Telecommunications Industry Software and Services
130	Test and Measurement Equipment
131	Tools and Outdoor Care Equipment
132	Travel Arrangement and Reservation Services
133	United States Satellite Services
134	United States Water Utilities
135	United States Wholesale Power
136	Warehouse Clubs and Superstores
137	Web-Based Data and Services
138	Wide Area Networking Equipment
139	Wireless Core Infrastructure Equipment
140	Wireless Mobile Equipment
141	Wireless Services
142	Wireline Services

Composition list: The largest 30 companies in terms of free-float market capitalization are selected.

Review frequency: The reviews are conducted on a quarterly basis in March. June. September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

Factset RBICS data is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cut-off date is used.

Weighting scheme: The indices are weighted according to free-float market capitalization considering minimum weight at 0.1% and maximum weight at 6%.

9.92.3.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off companies are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

9.92.4. iSTOXX TRANSATLANTIC MEGATRENDS ESG 60 INDEX

9.92.4.1. OVERVIEW

The iSTOXX Transatlantic Megatrends ESG 60 is a composite index obtained by rebalancing the iSTOXX USA Megatrends ESG 30 and the iSTOXX Eurozone Megatrends ESG 30 indices respectively to 50% and 50% on a daily basis.

Base value and date: 1000 as of March 24, 2014
Dissemination calendar: Intersection of STOXX Europe calendar and STOXX Americas calendar
Index Type & Index Currency: : Price, Net and Gross Return, EUR

9.92.4.1. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \cdot \sum_{i=1}^{2} w_i \cdot \frac{U_{t,i}}{U_{t-1,i}}$$

Where,

w_i = target weight of sub-index i
$U_{t,i}$ = close value of sub-index i on day t
IV_t = value of iSTOXX Transatlantic Megatrends ESG 60 index on day t ($IV_{24.03.2014}$ = 1000)

i	Sub-index name	w_i
1	iSTOXX USA Megatrends ESG 30	0.5
2	iSTOXX Eurozone Megatrends ESG 30	0.5

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.92.5. iSTOXX TRANSATLANTIC MEGATRENDS ESG 60 GR DECREMENT 50 INDEX

9.92.5.1. OVERVIEW

The iSTOXX Transatlantic Megatrends ESG 60 GR Decrement 50 index aims to replicate an investment in the iSTOXX Transatlantic Megatrends ESG 60 EUR GR index, to which a fixed decrement of 50 index points per annum is applied (using an Actual/365 Fixed day count convention).

9.92.5.1. DEFINITIONS

Base value and date: 876.17 as of 11 Nov 2021
Underlying Index: iSTOXX Transatlantic Megatrends ESG 60 EUR GR Index
Decrement Amount (in Points): 50
Dissemination calendar: Intersection of STOXX Europe calendar and STOXX Americas calendar
Index Type & Index Currency: EUR, Price

9.92.5.1. INDEX CALCULATION

The iSTOXX Transatlantic Megatrends ESG 60 GR Decrement 50 is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

9. DECREMENT INDICES (PERFORMANCE DEDUCTIONS)

9.93. EURO iSTOXX 50 ESG NR DECREMENT 5% INDEX

9.93.1. OVERVIEW

The EURO iSTOXX 50 ESG NR Decrement 5% Index replicates the performance of the Net Return version of the EURO STOXX 50 ESG Index while assuming a constant dividend markdown. Over the course of a year 5% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Base value and date: 100 on 19 Mar 2012
Index Type and Currencies: Price in EUR
Index Rounding: 2 d.p.
Underlying Index: EURO STOXX 50 ESG Index (SX5TESG)
Decrement Amount (in Percentage): 5
Dissemination calendar: STOXX Europe calendar

9.93.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying index on day t (EURO STOXX 50 ESG Index (SX5TESG))
U_{t-1}	index value of underlying index on day t-1 (EURO STOXX 50 ESG Index (SX5TESG))
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (5%)

9.93.3. ONGOING MAINTENANCE

All corporate actions and events handled in the EURO STOXX 50 ESG Index (EUR Net Return Index) – no additional precautions needed.

10. iSTOXX MUTB INDICES

10.1. iSTOXX MUTB QUALITY 150 INDICES

10.1.1. OVERVIEW

The iSTOXX MUTB Quality 150 indices select the best companies based on a combined ranking of four fundamentals ratios (return on equity, debt-to-asset, cash flow generation ability and business stability). Stocks need to fulfill minimum liquidity criteria before being added to the index.

Universe: The indices are derived from their benchmark index as follows. Effective up until September 2020 review, REITs, identified by ICB Sector 8670, and stocks classified as Japan on the STOXX Total Market index but incorporated outside of Japan are excluded from the universes Effective with September 2020 review, REITs, identified by ICB 351020 and 302030, and stocks classified as Japan on the STOXX Total Market index but incorporated outside of Japan are excluded from the universes:

Index	Universe
iSTOXX MUTB Japan Quality 150	STOXX Japan 600 ex-REITs
iSTOXX MUTB Global Quality 150	STOXX Global 1800 ex-REITs
iSTOXX MUTB Global ex Japan Quality 150	STOXX Global 1800 ex Japan ex-REITs
iSTOXX MUTB Global ex Australia Quality 150	STOXX Global 1800 ex Australia ex-REITs

Weighting scheme: The indices are weighted according to free-float market capitalization with a 2% maximum capping per constituent

Index types, currencies, base values and dates:

Index	Versions	Currencies	Base values and dates
iSTOXX MUTB Japan Quality 150	Price, gross and net return	EUR, USD, JPY	100 on June 18, 2001
iSTOXX MUTB Global Quality 150	Price, gross and net return	EUR, USD, JPY, AUD	100 on December 20, 2002
iSTOXX MUTB Global ex Japan Quality 150	Price, gross and net return	EUR, USD, JPY	100 on December 20, 2002
iSTOXX MUTB Global ex Australia Quality 150	Price, gross and net return	EUR, USD, AUD	100 on December 20, 2002

Dissemination calendar: STOXX Global calendar

10.1.2. INDEX REVIEW

Selection list: For the three iSTOXX MUTB Global 150 indices, the universe is divided into three regions: North America, Europe and Asia/Pacific. For iSTOXX MUTB Japan Quality 150, the universe remains untouched. For all stocks in each respective universe subdivision, percentile ranks are assigned to the following four ratios, where rank 0 is the worst and rank 1 the best. For

the three iSTOXX MUTB Global 150 indices also regional ranks are calculated based on the same ratios, where the respective global universe is divided into three regions: North America, Europe and Asia/Pacific. An additional percentile rank is assigned to liquidity for all stocks in the universe, without applying universe division into regions for any index. Only stocks with positive Shareholder's Equity, Total Assets and Net Cash Flow from Operating Activities and non-missing current Total Debt and Net Income data are eligible. Industrial stocks (all stocks excluding Financials. Effective up until September 2020 review, identified by ICB Industry Code 8000.Effective with September 2020 review, identified by ICB Industry Code 30 and 35.) need to have a positive sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables to be eligible.

- Liquidity: calculated as the three month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

- Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned.

- Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned.

- Cash-Flow Generation Ability:
  - For Financial stocks (Effective up until September 2020 review, identified by ICB Industry Code 8000.Effective with September 2020 review, identified by ICB Industry Code 30 and 35.): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank.
  - For industrial stocks (all stocks excluding Financials. Effective up until September 2020 review, identified by ICB Industry Code 8000.Effective with September 2020 review, identified by ICB Industry Code 30 and 35.): calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank
    The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

- Business Stability: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

For non-components a liquidity screening applies. Companies need to ranked within the top 80% by liquidity to be eligible.

The stocks fulfilling the following screening criteria will compose the selection list. For the iSTOXX MUTB Global 150 indices, the screening is applied using the regional rankings:

» All companies ranked by ROE between 0.5 and 1
» All companies ranked by Financial Health, Cash-Flow Generation Ability and Business Stability between 0.05 and 1

A composite quality score is calculated for all the stocks in the selection list using the previously calculated percentile ranks as follows. The full universe based ranks are used for the calculation, both for iSTOXX MUTB Japan 150 and iSTOXX MUTB Global 150 indices:

$$0.4 \times \text{ROE Ranking} + 0.2 \times (\text{Financial Health ranking} + \text{Cash Flow Generation Ability ranking} + \text{Business Stability ranking})$$

Component selection:
All eligible companies are ranked by the composite quality score in descending order.
For iSTOXX MUTB Japan Quality 150 index, the top 150 stocks are selected as index components.
For the three iSTOXX MUTB Global Quality 150 indices the following rules apply:

1. For current components of the index, if its quality score is more than 95% of the quality score of the 150th stock, then it will remain in the index.
2. When the number of stocks selected above is less than 150, the remaining constituents are selected in descending order by quality score from current non-components

If the composite score is the same for two stocks at the 150th threshold, the stock with higher ROE ranking will be selected for the index. If the ROE ranking is the same, the stock with the highest free-float market capitalization will be selected.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the corresponding universe effective on the Monday following the third Friday of the review month (June and December) is used as base universe.

Weighting cap factors: Components are capped at a maximum weight of 2% on a quarterly basis in March, June, September and December based on the close prices from the second Thursday of the rebalancing month.

10.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the corresponding universe, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

10. iSTOXX MUTB INDICES

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10. iSTOXX MUTB INDICES

10.2. iSTOXX MUTB GLOBAL EX AUSTRALIA QUALITY LEADERS 150 INDICES

10.2.1. OVERVIEW

The iSTOXX MUTB Global ex-Australia Quality Leaders 150 index selects the best companies from the components of the STOXX Global 1800 ex Australia index, based on a combined screening and ranking of four fundamental indicators. The indicators used are profitability, leverage, cash flow generation ability and business stability. Stocks need to fulfill minimum liquidity criteria before being added to the index.

The component selection is conducted on a semi-annual basis in June and December

Universe: The index is derived from the STOXX Global 1800 ex Australia Index.

Weighting scheme: The indices are weighted according to free-float market capitalization with a 2% maximum capping per constituent

Base values and dates: The following base values and dates apply:

Index	Versions	Currencies	Base values and dates
iSTOXX MUTB Global ex Australia Quality Leaders 150	Price, gross and net return	EUR	100 on December 20, 2002
		USD	102.69 on December 20, 2002
		AUD	183.02 on December 20, 2002

For a complete list please consult the data vendor code sheet on the website[8]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR, USD and AUD are calculated.

Dissemination calendar: STOXX Global calendar

10.2.2. INDEX REVIEW

Selection list: The universe is divided into three regions: North America, Europe and Asia/Pacific. For all stocks in each respective universe subdivision, percentile ranks are assigned to the following four ratios, where rank 0 is the worst and rank 1 the best. In addition, percentile ranks for the same four ratios are calculated on the full universe as well.
Only stocks with positive Shareholder's Equity, Total Assets and Net Cash Flow from Operating Activities and non-missing current Total Debt and Net Income data are eligible. Industrial stocks

[8] http://www.STOXX.com/download/indices/vendor_codes.xls

(all stocks excluding Financials) need to have a positive sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables to be eligible for ranking.

- Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned.

- Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned.

- Cash-Flow Generation Ability:
  - For Financial stocks (Effective up until September 2020 review, as identified by ICB Industry Code 8000. Effective up until September 2020 review, as identified by ICB Industry Codes 30 and 35): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank.
  - For industrial stocks (all stocks excluding Financials): calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank
    The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

- Business Stability: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

An additional percentile rank is assigned to liquidity (defined below) for all stocks in the universe, without applying universe division into regions for any index.

- Liquidity: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

For non-components a liquidity screening applies. Companies need to ranked within the top 80% by liquidity rank to be eligible.

The stocks fulfilling the following screening criteria, using the regional ranking calculated above will compose the selection list:

- All companies ranked by ROE between 0.5 and 1
- All companies ranked by Financial Health, Cash-Flow Generation Ability and Business Stability between 0.05 and 1

A composite quality score is calculated for all the stocks in the selection list using the percentile ranks calculated on the full universe as follows.

10. iSTOXX MUTB INDICES

$$0.4 \times \text{ROE Ranking} + 0.2 \times (\text{Financial Health ranking} + \text{Cash Flow Generation Ability ranking} + \text{Business Stability ranking})$$

Composition list: All eligible companies are ranked by the composite quality score in descending order. The top 150 components based on the composite quality score will be considered for index composition. Additionally, the following rules will apply:

1. For current components of the index, if its quality score is more than 95% of the quality score of the 150th stock, then it will remain in the index.
2. When the number of stocks selected above is less than 150, the remaining constituents are selected in descending order by quality score from current non-components

If the composite score is the same for two stocks at the 150^{h} threshold, the stock with higher ROE ranking will be selected for the index. If the ROE ranking is the same, the stock with the highest free-float market capitalization will be selected.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the corresponding universe effective on the Monday following the third Friday of the review month (June and December) is used as base universe.

Weighting cap factors: Components are capped at a maximum weight of 2% on a quarterly basis in March, June, September and December based on the close prices from the second Thursday of the rebalancing month.

10.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the corresponding universe, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10. iSTOXX MUTB INDICES

10.3. iSTOXX MUTB JAPAN QUALITY 150 DAILY HEDGED INDEX

10.3.1. OVERVIEW

A currency-hedged index is designed to represent returns for global index investment strategies that involve hedging currency risk, but not the underlying constituent risk. The currency-hedged strategy indices eliminate the risk of currency fluctuations at the cost of potential currency gains.

The iSTOXX MUTB Japan Quality 150 Daily Hedged index is available in the following types and currencies: price, net and gross return, in EUR.

Base values and dates: 100 on June 29, 2001

Dissemination calendar: STOXX Global calendar

10.3.2. CALCULATIONS

In the iSTOXX MUTB Japan Quality 150 Daily Hedged index the hedging trade is entered at the end of each calendar month. From that day onwards, the returns of the underlying, unhedged index are integrated by the returns from hedging. The notional amount being hedged is reset on a daily basis.

The full calculation methodology is covered in chapter 18 of the STOXX Strategy Guide.

10. iSTOXX MUTB INDICES

10.4. iSTOXX MUTB JAPAN PROACTIVE LEADERS 200 INDEX

10.4.1. OVERVIEW

The iSTOXX MUTB Japan Proactive Leaders 200 indices select the best companies based on a combined ranking of four fundamentals indicators (profitability, leverage, cash flow generation ability and business stability) and two capital investment factors (physical and human). Stocks need to fulfill minimum liquidity, and credit risk criteria before being added to the index. The number of companies from one ICB sector is constrained to ensure diversification.

Universe: The indices are derived from their benchmark, the STOXX Japan 600 index. Effective up until September 2020 review, REITs, identified by ICB Sector 8670, and stocks classified as Japan in the STOXX Total Market index, but incorporated outside of Japan are excluded from the universes. Effective with September 2020 review, REITs, identified by ICB Codes 351020 and 302030, and stocks classified as Japan in the STOXX Total Market index, but incorporated outside of Japan are excluded from the universes.

Weighting scheme: The indices are weighted according to free-float market capitalization with a 2% capping per constituent.

Base values and dates: The following base values and dates apply: 100 on Dec 22, 2008

Index types and currencies: Price, net return, gross return in JPY, EUR and USD

Dissemination calendar: STOXX Global calendar

10.4.2. INDEX REVIEW

Selection list:
On a semi-annual basis in June and December, for all stocks in the universe, two sets of percentile ranks are assigned to the following four indicators, where rank 0 is the worst and rank 1 the best. In the cases where the indicator is the same for two stocks, the larger stock by free-float market capitalization shall have the higher score. One set of ranks is calculated for the purpose of screening and a second one for the final composite score calculation. An additional percentile rank used only for screening purposes is assigned to liquidity.

- Liquidity: calculated as the three month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

- Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned.

- Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned.

- Cash-Flow Generation Ability:

- For Financial stocks (Effective up until September 2020 review, as identified by ICB Industry Code 8000. Effective with September 2020 review, as identified by ICB Industry Codes 30 and 35): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank.
- For industrial stocks (all stocks excluding Financials): calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank
  The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

» Business Stability: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

When assigning ranks that will be used for the composite score calculation, ROE indicator for stocks with negative shareholders' equity or negative net income is assigned zero. In the same way, stocks with negative shareholders' equity are assigned a Financial Health ranking of zero.

Additionally, for all stocks in the universe physical and human capital investment factors are calculated as follows:

» Physical capital investment factor, consisting of three sub-factors:

- Change in EX-CAPEX of the last three years (t). Calculated as follows:

$$\mathrm{EXCAPEX}_{i,t} = \mathrm{CAPEX}_{i,t} - \mathrm{Depreciation}_{i,t}$$

$$\mathrm{CAPEX}_{i,t}\text{: capital expenditures item of company i at t}$$

$$\mathrm{Depreciation}_{i,t}\text{: depreciation item of company i at t}$$

If either "CAPEX" or "depreciation" is missing, EX-CAPEX shall not be calculated. As long as one year EX-CAPEX is available, the average of the existing values shall be calculated.

$$\overline{\mathrm{EXCAPEX}_{i,t}} = \sum_{j=0}^{2} \mathrm{EXCAPEX}_{i,t-j} \div n$$

$$\text{n: number of observation with available data in the last three years}$$

$$\Delta\mathrm{EXCAPEX}_{i,t}^{C} = \mathrm{IF}(\overline{\mathrm{EXCAPEX}_{i,t}} > 0,1,0)$$

Companies with on average higher CAPEX than Depreciation over three years are assigned a score of 1, otherwise 0. Stocks with a missing value are scored at 0.

- Change in CAPEX of the last three years (t). Calculated as follows:
  As long as one year CAPEX is available, the average of the existing values shall be calculated.

$$\overline{\mathrm{CAPEX}_{i,t}} = \sum_{j=0}^{2} \mathrm{CAPEX}_{i,t-j} \div n$$

$$\text{n: number of observation with available data in the last three years}$$

$$\Delta\mathrm{CAPEX}_{i,t} = \mathrm{IF}(\mathrm{CAPEX}_{i,t} > \overline{\mathrm{CAPEX}_{i,t}}, 1{,}0)$$

Companies with the last year's CAPEX greater than the average over three years are assigned a score of 1, otherwise 0. Stocks with a missing value are scored at 0

- Change in Research and Development (R&D). Calculated as follows:
  As long as one year R&D is available, the average of the existing values shall be calculated.

$$\overline{\mathrm{R\&D}_{i,t}} = \sum_{j=0}^{2} \mathrm{R\&D}_{i,t-j} \div n$$

$$\mathrm{R\&D}_{i,t}\text{: research and development item of company i at t}$$

$$\text{n: number of observation with available data in the last three years}$$

$$\Delta\mathrm{R\&D}_{i,t} = \mathrm{IF}(\mathrm{R\&D}_{i,t} > \overline{\mathrm{R\&D}_{i,t}}, 1, 0)$$

Companies with the last year's R&D greater than the average over three years are assigned a score of 1, otherwise 0. Stocks with a missing value are scored at 0

The physical capital investment factor is calculated as the average of the three sub-factors: Change in EX-CAPEX, Change in CAPEX and Change in Research and Development

» Human capital investment factor, consisting of five sub-factors. This information is sourced from Toyo Keizai.

- Change in number of employees of the last three years (t). Calculated as follows:

As long as the latest year's (t) observation is available, the average of the existing values shall be calculated

$$\overline{E_{i,t}^{C}} = \sum_{j=0}^{2} E_{i,t-j}^{C} \div n$$

$$\overline{E_{i,t}^{P}} = \sum_{j=0}^{2} E_{i,t-j}^{P} \div n$$

$E_{i,t}^{C}$: the number of employee of company i, consolidated, at t

$E_{i,t}^{P}$: the number of employee of company i, parent, at t

$$\Delta E_{i,t}^{C} = IF(E_{i,t}^{C} > \overline{E_{i,t}^{C}}, 1,0)$$

$$\Delta E_{i,t}^{P} = IF(E_{i,t}^{P} > \overline{E_{i,t}^{P}}, 1,0)$$

If the number of employees of the company in the latest year is not available, the sub-factor's value will correspond to the change in number of employees of the parent company. Companies with the last year's number of employees greater than the average over three years are assigned a score of 1, otherwise 0

$$\Delta E_{i,t} = IF\left(E_{i,t}^{c} \neq null,\ \Delta E_{i,t}^{c},\ \Delta E_{i,t}^{P}\right)$$

- Change in average wage of the last three years (t). Calculated as follows:
  As long as one year of wage information is available, the average of the existing values shall be calculated

$$\overline{W_{i,t}} = \sum_{j=0}^{2} W_{i,t-j} \div n$$

$W_{i,t}$: the average wage of company i at t

n: number of observation with available data in the last three years

$$\Delta W_{i,t} = IF(W_{i,t} > \overline{W_{i,t}}, 1,0)$$

Stocks with a missing value are scored at 0

- Working environment/system, consisting of five sub-items. Calculated as follows:
  - Flextime program. If exists, then 1, else zero

- Reduced working hours program. If exists, then 1, else zero
- Home-working program. If exists, then 1, else zero
- Discretionary work program. If exists, then 1, else zero
- Change in number of paid vacation days
  As long as one year observation is available, the average of the existing number of paid vacation values shall be calculated. If the sub-item could not be calculated due to missing data, the value of the sub-item will be zero

$$\overline{PV_{i,t}} = \sum_{j=0}^{2} PV_{i,t-j} \div n$$

$PV_{i,t}$: the average number of paid vacation days of company i at t
n: number of observation with available data in the last three years

$$\Delta PV_{i,t} = IF(PV_{i,t} > \overline{PV_{i,t}}, 1,0)$$

Companies with the last years Paid Vacation Days greater than the average over three years are assigned a score of 1, otherwise 0.

The working environment/system score is calculated as the average of the five sub-items

- Skill and motivation program, consisting of five sub-items. Calculated as follows:
  - Incentive for obtaining certifications. If exists, then 1, else zero
  - Study program in Japan. If exists, then 1, else zero
  - Study program abroad. If exists, then 1, else zero
  - Career advancement support program. If exists, then 1, else zero
  - Stock option plan. If exists, then 1, else zero

  The skill and motivation program score is calculated as the average of the five sub-items

- Empowering women, consisting of three sub-items. Calculated as follows:
  - Ratio of management positions (women). If ratio is 30 or above, then 1, else if the ratio is 15 or below 30, then 0.5, else zero
  - Day care facility or allowance. If exists, then 1, else zero
  - Re-employment plan. If exists, then 1, else zero

  The empowering women score is calculated as the average of the three sub-items

The human capital investment factor is calculated as the average of the five sub-factors: Change in number of employees, Change in average wage, Working environment/system, Skill and motivation program and Empowering women

Using the set of percentile ranks calculated for screening purposes, a liquidity screening applies for non-components only. Companies need to ranked within the top 80% by liquidity to be eligible.

The stocks fulfilling the following criteria will compose the selection list. The screening is applied using the rankings calculated for screening.

- All stocks ranked by ROE between 0.2 and 1
- All stocks ranked by Financial Health, Cash-Flow Generation Ability and Business Stability between 0.05 and 1
- All stocks should have a positive value for either physical or human capital investment factor

Stocks that meet one of the following conditions are considered of high credit risk and removed from the selection list.

- Shareholder's equity is negative at least one of the recent three fiscal years
- Either of operating income or net income is negative during all the recent three fiscal years

Stocks that meet one of the following conditions are considered of low liquidity and removed from the selection list.

- Stocks were traded on the eligible stock exchange less than 200 days in the last year
- The total traded value of the stock was below 100 billion yen in the last year

A composite factor is calculated for all remaining stocks in the selection list using the percentile ranks assigned for the purpose of final composite score calculation and the physical and human capital investment factors as follows:

$$\begin{aligned} 0.6 \times [0.4 \times & \text{ROE Ranking} \\ & + 0.2 \\ & \times (\text{Financial Health ranking} + \text{Cash Flow Generation Ability ranking} \\ & + \text{Business Stability ranking})] + 0.2 \times (\text{Physical investment factor} \\ & + \text{Human investment factor}) \end{aligned}$$

Component selection:
All stocks in the selection list are ranked by the composite factor in descending order. The following selection rules apply:

1) For current components of the index, if its composite score is more than 95% of the composite score of the 200th stock, then it will remain in the index
2) When the number of stocks selected above is less than 200, the remaining constituents are selected in descending order by composite score from current non-components
3) If 40 stocks classified in the same sector (according to the ICB sector classification) are selected no more stocks from that sector could be added

If the composite score is the same for two stocks, the stock with the larger free-float market capitalization will be assigned the higher rank.
Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is last trading day of the month preceding the review month. The new composition of the STOXX Japan 600 Index effective on the Monday following the third Friday of the month (June and December) is used as base universe.

Weighting cap factors: Components are capped at a maximum weight of 2% on a semiannual basis in June and December based on the close prices of the second Thursday of the rebalancing month.

10.4.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Japan 600, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceeding.

10. iSTOXX MUTB INDICES

10.5. iSTOXX MUTB QUALITY DIVIDEND INDICES

10.5.1. OVERVIEW

The iSTOXX MUTB Quality Dividend indices select stocks form their respective benchmark index that comply with dividend quality, fundamental and price stability criteria. When selecting additions to the index during the periodical rebalancing, priority is given to high dividend yielding stocks. The component selection is conducted on a semi-annually basis in June and December.

Universe: Effective up until September 2020 review, the indices are derived from their parent indices as described below. REITs, identified by ICB Sector 8670, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes. Effective with September 2020 review, the indices are derived from their parent indices as described below. REITs, identified by ICB Codes 351020 and 302030, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes.

Index	Universe
iSTOXX MUTB Asia/Pacific Quality Dividend 100	STOXX Asia/Pacific 600 ex-REIT
iSTOXX MUTB Japan Quality Dividend 100	STOXX Japan 600 ex-REITs
iSTOXX MUTB Japan ex-Banks Quality Dividend 100	STOXX Japan 600 ex-Banks (excluding ICB 8300. Effective with September 2020 review, ICB code 3010) ex-REITs
iSTOXX MUTB Global Quality Dividend 300	STOXX Global 1800 ex-REITs
iSTOXX MUTB Global ex Japan Quality Dividend 250	STOXX Global 1800 ex Japan ex-REITs
iSTOXX MUTB Global ex Australia Quality Dividend 300	STOXX Global 1800 ex Australia ex-REITs

Weighting scheme: The indices are price weighted based on a combined factor of the inverse of each stock's standard deviation and the dividend amount with a capping per constituent.

Base values and dates: 100 on Dec 16, 2005 for iSTOXX MUTB Asia/Pacific Quality Dividend 100; 100 on Dec 20, 2002 for all other indices

Index types and currencies: All index versions are calculated as price, net and gross return in EUR, USD, JPY, with exception of iSTOXX MUTB Global ex Australia Quality Dividend 300 which is calculated in AUD but not in JPY. The iSTOXX MUTB Asia/Pacific Quality Dividend 100 is also calculated in TWD

Dissemination calendar: STOXX Global calendar

10.5.2. INDEX REVIEW

Selection list:

On a semi-annual basis in June and December, for all stocks in the universe with a valid gross dividend yield figure (zero or higher), assign percentile ranks based on the gross dividend yield where rank 0 is the worst and rank 1 the best. In the cases where the indicator is the same for two stocks, the larger stock by free-float market capitalization shall have the higher score.
Pre-select all the stocks with dividend yield percentile ranks between 0.5 and 1.

For the pre-selected stocks, calculate the following indicators and assign percentile ranks using the same logic:

» Liquidity: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

» Price Stability: calculated as the standard deviation of the latest 60 monthly returns in the stock's local currency. The lower the standard deviation, the higher the rank to be assigned. Stocks with less than 24 monthly returns are not ranked and are assigned a zero value.

» Historical Return: cumulative return in the stock's local currency. for the latest 12 months. The higher the Historical Return, the higher the rank to be assigned. Stocks with less than 12 month returns are not ranked and are assigned a zero value.

» Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned. Stocks with negative shareholders' equity are not ranked and are assigned a 0.5 value.

» Business Stability: calculated as the standard deviation of Net Income over the last five years' dividend by Shareholder's Equity. Data in local currency is used. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available. Stocks for which the ratio cannot be calculated are not ranked and are assigned a 0.5 value.

The stocks fulfilling the following dividend quality criteria will compose the selection list.

» All stocks ranked by Price Stability between 0.2 and 1
» All stocks with no missing Historical Return, having an Historical Return ranking between 0.1 and 1 or having their Historical Return indicator equal or above minus 30%
» All stocks having a combined rank of Financial Health rank (FHR) and Business Stability rank (BSR) between 0.2 and 1. The combined rank is calculated as: (FHR + BSR) / 2
» All stocks having a gross dividend yield of 30% or below
» All stocks having the inverse of the payout ratio of 1 or above. The inverse of the payout ratio is calculated as earnings per share (EPS) divided by gross dividend per share (DPS gross). Stocks with zero or no dividend are regarded as 0.000001 dividend. Stocks with missing EPS value are assigned inverse payout ratio of 1 and are kept in the universe.
» All stocks ranked by Liquidity between 0.05 and 1. This screening does not apply to the iSTOXX MUTB Asia/Pacific Quality Dividend 100

10. iSTOXX MUTB INDICES

Composition list: All current constituents that are part of the universe after screening criteria are applied remain in the index. If the number of selected constituents is less than the target count for each index version, the highest stocks ranked by gross dividend yield are selected until the target count is reached.
For all indices, except of the iSTOXX MUTB Asia/Pacific Quality Dividend 100, the following rules apply in addition: If the selection count is still below the target, the remaining constituents will be selected from the highest gross dividend yield ranked which are compliant with all the dividend quality criteria except of the payout ratio screening rule, giving priority to current components over non-components. If after this the target count is yet not reach, no further additions will be performed and the index selection will remain below the target count. Stocks that are non-components of the index at the time of the selection need to be ranked within the top 80% by liquidity in order to be selected into the index.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is last trading day of the month preceding the review month. The new composition of the universe indices effective on the Monday following the third Friday of the month (June and December) is used as base universe.

Weighting factors: a weighting factor is calculated for each stock as follows

$$w^{PS}{}_i = \frac{\dfrac{1}{\text{Price Stability}_i}}{\displaystyle\sum_{j=1}^{N} \frac{1}{\text{Price Stability}_j}}$$

$w^{PS}{}_i$ = weight of stock i based on Price Stability.
Price Stability $_i$ = Price Stability of stock i calculated as the standard deviation of the latest 60 monthly returns
N = number of index components

$$w^{DA}{}_i = \frac{\text{Dividend Amount}_i}{\displaystyle\sum_{j=1}^{N} \text{Dividend Amount}_j} = \frac{\text{DPS}_i \cdot \text{Outstanding Shares}_i}{\displaystyle\sum_{j=1}^{N} \text{DPS}_j \cdot \text{Outstanding Shares}_j}$$

$w^{DA}{}_i$ = weight of stock i based on Dividend Amount
Dividend amount $_i$ = Dividend amount stock i
DPS_i = Gross dividend per share of stock i in index currency

Outstanding Shares $_i$ = Outstanding shares of stock i on the last trading day of the month prior to the review month

N = number of index components

$$w_i = \frac{w^{PS}{}_i + w^{DA}{}_i}{2}$$ for the iSTOXX MUTB Asia/Pacific Quality Dividend 100 index

$$w_i = \frac{w^{PS}{}_i + 2 \cdot w^{DA}{}_i}{3}$$ for the rest of the indices

w_i = weight of stock i

Weighting factor = (1,000,000,000 x weight / closing price of the stock in EUR), rounded to integers.
The weighting factors are calculated on the second Friday of the review month, one week prior to semiannual review implementation using Thursday's closing prices.

An additional capping factor of 3% for the two Japan and the Asia/Pacific versions, and 1.5% for the three Global versions apply at the semiannual rebalancing.

10.5.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

10. iSTOXX MUTB INDICES

10.6. iSTOXX MUTB CHINA A QUALITY AM 150 INDEX

10.6.1. OVERVIEW

The iSTOXX MUTB China A Quality AM 150 Index selects the best companies based on a combined ranking of four fundamentals ratios (return on equity, debt-to-asset, cash flow generation ability and business stability). Stocks need to fulfill minimum liquidity criteria and additionally must be tradable on Shanghai or Shenzhen Stock Exchange before being added to the index.

Universe: The index is derived from its benchmark index, the STOXX China A 900 Index including only shares available to foreign investors through Northbound Trading segments of the Shanghai-Hong Kong Stock Connect or Shenzhen-Hong Kong Stock Connect programs of its parent index STOXX China A 900.

Weighting scheme: The indices are weighted according to free-float market capitalization with a 2% maximum capping per constituent.

Base values and dates: 100 on Dec 16, 2011

Index types and currencies: Price, gross and net return in EUR, USD and RMB are calculated

Dissemination calendar: STOXX Global calendar

10.6.2. INDEX REVIEW

Selection list:
For all stocks in the universe, percentile ranks are assigned to the following four ratios and liquidity, where rank 0 is the worst and rank 1 the best. In the cases where the ratio is the same for two stocks the larger stock by free-float market capitalization shall have the higher score. Only stocks with positive Shareholder's Equity, Total Assets and Net Cash Flow from Operating Activities and non-missing current Total Debt and Net Income data are eligible. Industrial stocks (all stocks excluding Financials) need to have a positive sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables to be eligible.

- Liquidity: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.
- Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned.
- Financial Health: calculated as Total Debt dividend by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned.
- Cash-Flow Generation Ability:

- For Financial stocks (Effective up until September 2020 review, as identified by ICB Industry Code 8000.Effective with September 2020 review, as identified by ICB Industry Codes 30 and 35): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank.
- For industrial stocks (all stocks excluding Financials): calculated as Net Cash-Flows from Operating Activities dividend by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank

The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

» Business Stability: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

For non-components a liquidity screening applies. Companies need to rank within the top 80% by liquidity to be eligible.

The stocks fulfilling the following screening criteria will compose the selection list:

» All companies ranked by ROE between 0.5 and 1
» All companies ranked by Financial Health, Cash-Flow Generation Ability and Business Stability between 0.05 and 1

A composite score is calculated for all the stocks in the selection list using the previously calculated percentile ranks as follows:

$$0.4 \times \text{ROE Ranking} + 0.2 \times (\text{Financial Health ranking} + \text{Cash Flow Generation Ability ranking} + \text{Business Stability ranking})$$

Composition list: All eligible companies are ranked by the composite quality score in descending order.
The following selection rules apply:
1. For a current component of the index, if its quality score is more than 95% of the quality score of the 150th stock, then it will remain in the index.
2. If the number of stocks selected above is less than 150, the remaining constituents are selected by quality score, considered in descending order, from current non-components

If the composite score is the same for two stocks at the 150th threshold, the stock with higher ROE ranking will be selected for the index. If the ROE ranking is the same, the stock with the highest free-float market capitalization will be selected.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the

review month. The new composition of the STOXX China A 900 Index effective on the Monday following the third Friday of the review month (June and December) is used as base universe.

Weighting cap factors: Components are capped at a maximum weight of 2% on a quarterly basis in March, June, September and December based on the close prices from the second Thursday of the rebalancing month.

10.6.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX China A 900, which remain in the STOXX China A Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10. iSTOXX MUTB INDICES

10.7. iSTOXX MUTB VALUE INDICES

10.7.1. OVERVIEW

The iSTOXX MUTB Value indices select companies based on a normalized value factor which is adjusted to account for regional and industry specific biases. The value factor is captured by the ratios: book to price, earnings to price and cash-flow from operations to price. High volatility and high accruals companies are screened out.

Universe: The indices are derived from their parent indices as described below. Effective up until September 2020 review, REITs, identified by ICB Sector 8670, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes. Effective with September 2020 review, REITs, identified by ICB codes 351020 and 302030, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes.

Index	Universe
iSTOXX MUTB Japan Value 300	STOXX Japan 600 ex-REITs
iSTOXX MUTB Global Value 600	STOXX Global 1800 ex-REITs
iSTOXX MUTB Global ex Japan Value 600	STOXX Global 1800 ex Japan ex-REITs

Weighting scheme: The indices are price weighted based on a calculated value score and fundamental indicators.

Base values and dates: 100 on Dec 20, 2002

For a complete list please consult the data vendor code sheet on the website[9]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR, USD and JPY. iSTOXX MUTB Global Value 600 is also available in AUD.

Dissemination calendar: STOXX Global calendar

10.7.2. INDEX REVIEW

Selection list:
On a semi-annual basis, in June and December, percentile ranks are assigned to all stocks in each respective universe, based on the following two indicators. In the cases where the indicator takes the same value for two stocks, the larger stock by free-float market capitalization shall have the higher rank.

[9] http://www.STOXX.com/download/indices/vendor_codes.xls

» Liquidity: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

» Price Stability: calculated as the standard deviation of the latest 60 monthly returns in the stock's local currency. The lower the standard deviation, the higher the percentile rank assigned. Stocks with less than 24 monthly returns are not ranked and are assigned a value of 0.5.

» Accruals: for each stock i, calculated as:
$$\text{Accruals}_i = \frac{\text{Net Income}_i - \text{Net Cash Flow from Operating Activities}_i}{\text{Total Asset}_i}$$
The lower the accruals, the higher the percentile rank assigned. Stocks with no available accruals data are not ranked and are assigned a value of 0.5.

All stocks fulfilling the following criteria will compose the selection list:

Stocks ranked by Price Stability between 0.1 and 1
Stocks ranked by Accruals between 0.1 and 1
Stocks ranked by Liquidity between 0.05 and 1

For the stocks in the selection list, the following fundamental ratios are calculated:

» Book to Price ratio (BPR)
» Earnings to Price ratio (EPR)
» Cash Flow to Price ratio (CFPR)

Normalized ratio values are then calculated for each of the three ratios and for each stock applying the following stepwise standardization procedure:

Exclude stocks with values above 10 or below -10 in any fundamental ratio.

For the remaining stocks, for each fundamental ratio (R) and based only on the fundamental data of the remaining stocks after the previous exclusion, calculate:

- $\text{Upper Bound}(z_{i \in A}) = \text{median}(z_{i \in A}) + 4 \times \sigma(z_{i \in A})$
- $\text{Lower Bound}(z_{i \in A}) = \text{median}(z_{i \in A}) - 4 \times \sigma(z_{i \in A})$

where:
set of stocks A: $\{i: -10 \leq z_i \leq 10\}$
$z_{i \in A}$: fundamental ratio values for stocks in set A
σ: standard deviation of values of ratio R for all stocks included in set A

In a second step, exclude stocks with fundamental ratio values above Upper Bound (UB) or below Lower Bound (LB).

For the remaining stocks, for each fundamental ratio (R) and based only on the fundamental data of the remaining stocks after the previous exclusion, calculate:

$$\text{Normalized ratio,} \quad \widehat{R}_i = \max\left(\min\left(\frac{(z_{i\in B} - \text{median}(z_{i\in B}))}{\sigma(z_{i\in B})}, 4\right), -4\right)$$

where:
set of stocks B: $A \setminus \{i: z_i < \text{LB or } z_i > \text{UB}\}$
$z_{i\in B}$: fundamental ratio values for stocks in set B
The following adjustments are applied to the calculated normalized ratios for stocks:

- with fundamental ratio values above 10 or above the Upper Bound, the normalized ratio is set to 4
- with fundamental ratio values below -10 or below the Lower Bound, the normalized ratio is set to -4
- with fundamental ratios not available, the normalized ratio is set to -4

After normalization, for each stock i, a composite value factor is calculated as an average of the three normalized fundamental ratio as follows:

$$\text{Composite value factor}_i = \frac{\left(\widehat{BPR}_i + \widehat{EPR}_i + \widehat{CFPR}_i\right)}{3}$$

After applying the screening, a region and industry adjusted composite value factor is calculated for each stock (i) as follows:

$$\widehat{\alpha}_i = \text{Composite value factor}_i - \text{ave}_{k,j}$$

where:
$\widehat{\alpha}_i$: Adjusted composite value factor for stock i
$\text{Composite value factor}_i$: composite value factor for stock i
$\text{ave}_{k,j}$: average of the composite factor values of the stocks within a region k and an industry j. The three regions are Europe, North America and Asia-Pacific. The 10 industries are derived from the ICB Industry level(Effective with September 2020 review, 11 industries are derived ICB Industry level). For iSTOXX MUTB Japan Value 300, no regional split is applied.

Composition list:
At each semi-annual rebalancing, for all stocks in the selection list, calculate the value score as follows:

$$\text{value score} = \frac{1}{1 + \exp(-\widehat{\alpha}_i)}$$

Stocks are ranked by value score in descending order and, in case of same ranking, priority is given to the larger stock in terms of free float. iSTOXX MUTB Japan Value 300 will include the highest ranked 300 stocks, while iSTOXX MUTB Global Value 600 and iSTOXX MUTB Global ex Japan Value 600 will include the 600 highest ranked stocks. Stocks that are non-components of

the index at the time of the selection need to be ranked within the top 80% by liquidity in order to be selected into the index.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the previous month.

Weighting factors: The weighting factors are calculated on a semi-annual basis in June and December using the calculated weights of each stock calculated as described below and the close prices in EUR from the Thursday prior to the second Friday of the review month as follows:

$$w_{bv,i} = \frac{\sqrt{\text{shareholder's equity}_i} * \text{value score}_i}{\sum_{i=1}^{N} \sqrt{\text{shareholder'sequity}_i} * \text{value score}_i}$$

where:
$w_{bv,i}$: weight of stock i based on the value score and its book value
$\text{shareholder's equity}_i$: $\text{BPR}_i * \text{full market cap}_{EUR}$

$$w_{e,i} = \frac{\sqrt{\text{net income}_i} * \text{value score}_i}{\sum_{i=1}^{N} \sqrt{\text{net income}_i} * \text{value score}_i}$$

where:
$w_{e,i}$: weight of stock i based on the value score and its earnings
net income_i: $\text{EPR}_i * \text{full market cap}_{EUR}$

$$w_{cf,i} = \frac{\sqrt{\text{cashflow}_i} * \text{value score}_i}{\sum_{i=1}^{N} \sqrt{\text{cashflow}_i} * \text{value score}_i}$$

where:
$w_{cf,i}$: weight of stock i based on the value score and its cash flow
cashflow_i: $\text{CFPR}_i * \text{full market cap}_{EUR}$

Each of the three weights are calculated only if the respective ratios (BPR, EPR, CFPR) have a positive value. In case the ratios are zero or negative, the weight assigned is zero.
A capping of 2% applies to each of the three weights for a stock.

The final weights and weightfactors for each stock i are calculated as follows:

$$w_i = \frac{w_{bv,i} + w_{e,i} + w_{cf,i}}{3}$$

Weighting cap factor $_i$ = (1,000,000,000 x w_i / closing price $_i$), rounded to integers.

10.7.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the respective parent indices, but which remain in the STOXX Total Market Index, are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

10. iSTOXX MUTB INDICES

10.8. iSTOXX MUTB MINIMUM VARIANCE INDICES

10.8.1. OVERVIEW

Universe: The index universe of the iSTOXX MUTB Japan (Global ex Japan, Global) Minimum Variance index is defined by the parent index STOXX Japan 600 (Global 1800 ex Japan, Global 1800).

Weighting scheme: The indices are price weighted according to a minimum variance optimization.

Base values and dates: 100 on Dec 20, 2002

Index types and currencies: Price, net return, gross return in EUR, USD, JPY.

Dissemination calendar: STOXX Global calendar

10.8.2. INDEX REVIEW

The indices are derived from the STOXX regional benchmark indices. Axioma's second-order cone with Branch-andbound optimization process is used. The model aims to optimize the portfolio with respect to variance, while not modifying other attributes too much.

Selection list: STOXX Japan 600 index, STOXX Global 1800 ex Japan, and STOXX Global 1800 respectively.

Composition list: The Minimum Variance portfolio of the corresponding universe is derived based on the Axioma optimization model. The composition list ("selection list") is published on the Monday after the second Friday.

Review frequency: The reviews are conducted on a quarterly basis, in sync with the parent index.

Weighting cap factors: See below for detailed optimization constraints. The weighting factors are calculated using closing prices from the second Friday of the respective review month.

Constraints:
Exclusion: REITs (Effective up until September 2020 review, as identified by ICB code 8670. Effective with September 2020 review, as identified by ICB code 351020 and 302030), current non-constituents in the bottom 20% of 3-month median daily traded value (MDV) (percentile rank calculated based on full universe), stocks with 20-day MDV below JPY 50 million.
Current constituents' weights that are in the bottom 20% of 3-month MDV cannot be increased.

Single component caps (percentile ranks are calculated based on the full universe):

Group	Weight cap
0-30% (low volatility)	2%
31-40%	1.5%
41-80%	0.5%
81-100% (high volatility)	0%

with volatility calculated using 60-month monthly month-end returns in local currency, at least 36 months required.

Group	Weight cap
0-20% (high liquidity)	2%
21-40%	1.5%
41-80%	0.8%
81-100% (low liquidity)	0.5%

with liquidity defined by 3-months MDV.

Minimum holding weight: 1bp (enforced in post-processing of optimization results).

Risk factor constraints w.r.t. universe using Axioma's corresponding regional mid-horizon fundamental risk model:

- Size: +/- 1 sigma
- Value: +/- 0.1 sigma
- Short-term momentum: +/- 0.1 sigma
- Mid-term momentum: +/- 0.25 sigma
- Currency: +/- 5%

Turnover: 15% (one way)

10.8.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. Deletions from the respective parent indices, but which remain in the STOXX Total Market Index, are not deleted from the index.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult to the STOXX Calculation guide for the detailed treatments.

10. iSTOXX MUTB INDICES

10.9. iSTOXX MUTB MOMENTUM INDICES

10.9.1. OVERVIEW

The iSTOXX MUTB Momentum Indices select companies based on a momentum score factor which is adjusted to account for market beta, size and book-to-price biases. Momentum is defined as the price movement over the prior 12 months.

Universe: The indices are derived from their parent indices as described below. Effective up until September 2020 review, REITs, identified by ICB Sector 8670, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes. Effective with September 2020 review, REITs, identified by ICB Codes 351020 and 302030, and stocks classified as Japanese in the STOXX Total Market index but incorporated outside of Japan are excluded from the universes.

Index	Universe
iSTOXX MUTB Momentum Value 300	STOXX Japan 600 ex-REITs
iSTOXX MUTB Global Momentum 600	STOXX Global 1800 ex-REITs
iSTOXX MUTB Global ex Japan Momentum 600	STOXX Global 1800 ex Japan ex-REITs

Weighting scheme: The indices are price-weighted based on a calculated momentum score.

Base values and dates: 100 on Dec 20, 2002 for iSTOXX MUTB Japan Momentum 300 and 100 on Dec 19, 2003 for iSTOXX MUTB Global Momentum 600 and iSTOXX MUTB Global ex Japan Momentum 600.

For a complete list please consult the data vendor code sheet on the website[10]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR, USD and JPY.

Dissemination calendar: STOXX Global calendar

10.9.2. INDEX REVIEW

Selection list:
On a quarterly basis, the momentum factor is calculated for each stock after adjusting for market beta, size and book-to-price ratio.

First, the beta and alpha of each stock is calculated using the formula below:

[10] http://www.STOXX.com/download/indices/vendor_codes.xls

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$$\begin{pmatrix} R_{i.t=-2} \\ \vdots \\ R_{i,t=-13} \end{pmatrix} = \beta_i \begin{pmatrix} Rm_{t=-2} \\ \vdots \\ Rm_{t=-13} \end{pmatrix} + \alpha_i + \begin{pmatrix} \varepsilon_{i,t=-2} \\ \vdots \\ \varepsilon_{i,t=-13} \end{pmatrix}$$

where
R_i: the monthly local return of stock i
R_m: the monthly local return of the parent index (defined as the STOXX Japan 600 JPY Gross Return, STOXX Global 1800 Local Currency Gross Return, STOXX Global 1800 ex Japan Local Currency Gross Return respectively)
ε_i: the market beta residual return

The monthly return is determined over the 12 months period ending one month prior to the last business day before the review month. The local return of parent index is defined as the hypothetical return of the parent index ignoring any impact from currency movements.

The 12-month momentum adjusted with market beta is defined as:

$$\beta_{adj} Mom_i = 12 * \alpha_i$$

If there are missing values, the 12-month momentum adjusted with market beta is defined as NA.

The size and price-to-book factors are calculated as:
$size_i$: the natural logarithm of the total market capitalization of stock i in EUR
BPR_i: the book value per share to price of stock i

These 3 factors (12-month momentum adjusted with market beta, size and BPR) are each standardized in three iterations. At each iteration, the standardized factor is calculated as:

$$standardized\ factor \quad \hat{f}_i = \frac{(f_i - ave)}{\sigma}$$

where
f_i: factor value of stock i
ave: factor average weighted by the stocks' weights in the parent index
σ : factor standard deviation

At each iteration, if the standardized factor is over 4 or under -4, the value is truncated at 4 or -4 respectively. If the factor for size and BPR is NA, the standardized factor is set to zero. For the 12-month momentum adjusted with market beta, the standardized factor remains as NA.

The standardized 12-month momentum adjusted with market beta factor is then regressed against the standardized size factor and standardized BPR factor, and the residual error of this regression is calculated.

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$$\begin{pmatrix} \beta\widehat{adjMom}_{i=1} \\ \vdots \\ \beta\widehat{adjMom}_{i=N} \end{pmatrix} = \beta_{size}\begin{pmatrix} \widehat{size}_{i=1} \\ \vdots \\ \widehat{size}_{i=N} \end{pmatrix} + \beta_{BPR}\begin{pmatrix} \widehat{BPR}_{i=1} \\ \vdots \\ \widehat{BPR}_{i=N} \end{pmatrix} + \alpha^* + \begin{pmatrix} \varepsilon_{i=1} \\ \vdots \\ \varepsilon_{i=N} \end{pmatrix}$$

where
$\beta_{adj}\widehat{Mom}_i$: standardized 12-month momentum adjusted with market beta factor of stock i
$\widehat{size}_i$: standardized size factor of stock i
$\widehat{BPR}_i$: standardized BPR of stock i
ε_i : residual error
α^* : alpha
N : number of stocks in the parent index

The risk-factor adjusted momentum factor is defined as the residual error from the above equation:

$$adjMom_i = \varepsilon_i$$

The risk-factor adjusted momentum factor is then standardized in three iterations. At each iteration, a standardized factor is calculated as:

$$standardized\ factor \quad \widehat{adjMom}_i = \frac{(adjMom_i - ave)}{\sigma}$$

where
$adjMom_i$: the risk-factor adjusted momentum factor of stock i
ave: factor average weighted by the stocks' weights in the parent index
σ : factor standard deviation

At each iteration, if the standardized factor is over 4 or under -4, the value is truncated at 4 or -4 respectively.

The momentum score of each stock is calculated using the following formula:

$$Momentum\ Score_i \quad = \quad \frac{1}{1 + exp\left(-2\widehat{adjMom}_i\right)}$$

Composition list:
The top 300 (Japan) and 600 (Global/Global ex Japan) stocks with the highest momentum score are selected for the respective index.

In order to reduce turnover, the following buffer rules are applied.

	Targeted number of constituents	Upper buffer bound	Lower buffer bound
Japan	300	210	390

Global, Global ex-Japan	600	420	780

The top stocks up to the Upper buffer bound included in terms of momentum score are added to the respective iSTOXX MUTB Momentum index. Then, any current constituents that have a momentum score ranking from the Upper buffer bound to the Lower buffer bound included are successively added until the number of components reaches the targeted number of constituents. If the number of stocks is still below the required number, the remaining stocks with higher momentum scores are added until the targeted number of components is reached.

The weights of the constituents are calculated based on their momentum score:

$$weight_i = \frac{Momentum\ Score_i}{\sum Momentum\ Score}$$

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last trading day of the previous month.

Weighting factors: weight * (100,000,000,000 / closing price of the stock), rounded to integers based on the closing prices in EUR on the Thursday prior to the second Friday of the review month.

10.9.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the respective parent indices, but which remain in the STOXX Total Market Index, are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

10. iSTOXX MUTB INDICES

10.10. iSTOXX MUTB ESG QUALITY 200 INDICES

10.10.1. OVERVIEW

The iSTOXX MUTB ESG Quality 200 indices select the best ESG companies based on a combined screening and ranking of four fundamental indicators (profitability, leverage, cash flow generation ability and business stability). The component selection is conducted on a semi-annually basis in June and December.

Universe: The indices are derived from their benchmark indices as follows:

Index	Universe
iSTOXX MUTB Japan ESG Quality 200	STOXX Japan 600
iSTOXX MUTB Global ESG Quality 200	STOXX Global 1800
iSTOXX MUTB Global ex Japan ESG Quality 200	STOXX Global ex Japan 1800

Weighting scheme: The indices are weighted according to free-float market capitalization with a 2% maximum capping per constituent and rebalanced quarterly.

Index types, currencies, base values and dates:

Index	Versions	Currencies	Base values and dates
iSTOXX MUTB Japan ESG Quality 200	Price, gross and net return	EUR, USD, JPY	100 on December 17, 2010
iSTOXX MUTB Global ESG Quality 200	Price, gross and net return	EUR, USD, JPY,	100 on December 18, 2009
iSTOXX MUTB Global ex Japan ESG Quality 200	Price, gross and net return	EUR, USD, JPY	100 on December 18, 2009

Dissemination calendar: STOXX Global calendar

10.10.2. INDEX REVIEW

Selection list:
A set of exclusion criteria are applied:

1. **Sectors:**

Effective up until September 2020 review, REITs, as identified by ICB Sector 8670.
Effective with September 2020 review, Eurozone REITs, as identified by ICB Sectors 302030 and 351020.

2. **Country of incorporation:**

Stocks classified as Japan on the STOXX Total Market index but incorporated outside of Japan

3. **Global Standards Screening:**

STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

4. **Controversial Weapons:**

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium ammunition, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale of controversial weapons
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

For the remaining stocks, Quality Factors and ESG scores are calculated as follows:

1. **Quality Factors:**

On a semi-annual basis in June and December, for all remaining stocks in each respective universe, the following quality factors are calculated and two sets of percentile ranks are assigned to the following factors below, where rank 0 is the worst and rank 1 the best. The first set of ranks is to calculate the factor composite score. Stocks with missing values are excluded from the first ranking process and then assigned a rank of 0. This first set of ranks is then ranked again to produce the second set of ranks that is used for screening. In the cases where the ratio is the same for two stocks, the larger stock by free-float market capitalization shall have the higher rank. For the two iSTOXX MUTB Global ESG 200 indices, the ranks used for screening purposes with the exception of liquidity are calculated for each regional universe subdivision: North America, Europe and Asia Pacific.

» Liquidity: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

» Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned. Stocks with negative Shareholders' Equity or Net Income are regarded as having missing values.

» Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned. Stocks with negative Shareholders' Equity are regarded as having missing values.

» Cash-Flow Generation Ability:

- For Financial stocks (Effective until September 2020 Review, as identified by ICB Industry Code 8000. Effective with September 2020 review, as identified by ICB Industry Code 30 and 35.): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank.
- For industrial stocks (all stocks excluding Financials): calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank

The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

» Business Stability: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

2. ESG Scores:

Two sets of ESG Scores are calculated, the ESG Incident Score and the ESG Management Score.

1. ESG Incident Score:
Average of the KPI Scores from the following list, for which data is available (Raw Scores as provided by Sustainalytics):

Indicator Long Name	Indicator Short Name
E.1.12 Operations Incidents	E.1.12
E.2.2 Environmental Supply Chain Incidents	E.2.2
E.3.2 Product & Service Incidents	E.3.2
G.1.5 Business Ethics Incidents	G.1.5
G.2.13 Governance Incidents	G.2.13
G.3.4 Public Policy Incidents	G.3.4
S.1.7 Employee Incidents	S.1.7
S.2.3 Social Supply Chain Incidents	S.2.3
S.3.3 Customer Incidents	S.3.3
S.4.3 Society & Community Incidents	S.4.3

Stocks with no ESG Incident Score data coverage are removed.

2. ESG Management Score :
Traditional sector classifications do not accurately reflect the specifics of ESG research: Sustainalytics have therefore created the concept of peer groups to classify

companies that are highly similar from an ESG perspective. Sustainalytics currently classifies companies according to the following 42 peer groups:

Aerospace & Defense	Industrial Conglomerates
Auto Components	Insurance
Automobiles	Machinery
Banks	Media
Building Products	Oil & Gas Producers
Chemicals	Paper & Forestry
Commercial Services	Pharmaceuticals
Construction & Engineering	Precious Metals
Construction Materials	Real Estate
Consumer Durables	Refiners & Pipelines
Consumer Services	Retailing
Containers & Packaging	Semiconductors
Diversified Financials	Software & Services
Diversified Metals	Steel
Electrical Equipment	Technology Hardware
Energy Services	Telecommunication Services
Food Products	Textiles & Apparel
Food Retailers	Traders & Distributors
Healthcare	Transportation
Homebuilders	Transportation Infrastructure
Household Products	Utilities

The peer group-adjusted KPI Score values are calculated as follows:

$$Adjusted\ KPI\ Score_i^k = KPI\ Score_i^k - \overline{KPI\ Score_j^k}$$

where:

$$KPI\ Score_i^k = \text{Value of KPI Score k for stock i}$$
$$\overline{KPI\ Score_j^k} = \text{Average value of KPI Score k in peer group j}$$

The ESG Management Score, which is used for the final composite score calculation, is calculated as the average of the peer group-adjusted KPI Scores from the following list, for which data is available (Raw Scores as provided by Sustainalytics):

Indicator Long Name	**Indicator Short Name**
E.1.1 Environmental Policy	E.1.1
E.1.2 Environmental Management System	E.1.2
E.1.2.7 Water Intensity	E.1.2.7

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E.1.3 EMS Certification	E.1.3
E.1.3.2 Hazardous Waste Management	E.1.3.2
E.1.3.4 Water Management Programs	E.1.3.4
E.1.6 Scope of GHG Reporting	E.1.6
E.1.7.0 GHG Reduction Programs	E.1.7.0
E.1.7.1 Green Logistics Programs	E.1.7.1
E.1.8 Renewable Energy Programs	E.1.8
E.1.9 Carbon Intensity	E.1.9
E.1.10 Carbon Intensity Trend	E.1.10
E.1.11 Renewable Energy Use	E.1.11
E.2.1 Green Procurement Policy	E.2.1
E.2.1.1 Supplier Environmental Programs	E.2.1.1
E.2.1.2 Supplier Environmental Certifications	E.2.1.2
E.3.1.6 Eco-Design	E.3.1.6
S.1.1 Freedom of Association Policy	S.1.1
S.1.1.1 Working Hours Policy	S.1.1.1
S.1.2 Discrimination Policy	S.1.2
S.1.3 Diversity Programs	S.1.3
S.1.5 Employee Turnover Rate	S.1.5
S.1.6.5 LTIR Trend	S.1.6.5
S.1.6.6 Employee Fatalities	S.1.6.6
S.2.1 Scope of Social Supplier Standards	S.2.1
S.2.1.3 Conflict Minerals Policy	S.2.1.3
S.2.2 Supply Chain Monitoring	S.2.2
S.3.2.1 QMS Certifications	S.3.2.1
S.4.1 Activities in Sensitive Countries	S.4.1
S.4.2.1 Human Rights Policy	S.4.2.1
S.4.2.2 Community Involvement Programs	S.4.2.2
G.1.1 Bribery & Corruption Policy	G.1.1
G.1.2 Whistleblower Programs	G.1.2
G.1.4 Tax Disclosure	G.1.4
G.2.1 ESG Reporting Standards	G.2.1
G.2.3.1 Remuneration Disclosure	G.2.3.1
G.2.4.1 Director Disclosure	G.2.4.1
G.2.5 ESG Governance	G.2.5
G.2.6 ESG Performance Targets	G.2.6
G.2.7.1 Board Diversity	G.2.7.1
G.2.9.1 Board Independence	G.2.9.1
G.2.10.1 Audit Committee Structure	G.2.10.1
G.2.11.1 Auditor Fees	G.2.11.1
G.2.12.1 Remuneration Committee Effectiveness	G.2.12.1
G.3.1 Political Involvement Policy	G.3.1

Stocks with no ESG Management Score data coverage are removed

Percentile ranks are calculated based on the ESG Management Score. In the cases where the score is the same for two stocks, the larger stock by free-float market capitalization shall have the higher percentile rank. In a second step, the final ESG Management Score ranks for each stock i are calculated as follows:

$$\max(0,\ ESG\ Weighted\ Score\ Percentile\ Ranking_i - 0.5) \times 2$$

where:

$ESG\ Weighted\ Score\ Percentile\ Ranking_i$ = percentile ranks calculated based on the ESG Management Score

Finally, using the set of percentile ranks calculated for screening purposes, a liquidity screening applies for non-components only. Companies need to rank within the top 80% by liquidity to be eligible.

The stocks fulfilling the following screening criteria will compose the selection list. For the 2 iSTOXX MUTB Global ESG Quality 200 indices, the screening is applied using the regional rankings:

- All companies ranked by ROE between 0.3 and 1
- All companies ranked by Financial Health, Cash-Flow Generation Ability and Business Stability between 0.05 and 1
- All companies ranked by ESG Incident Score above 90

A composite score is calculated for all remaining stocks in the selection list using the percentile ranks assigned for the purpose of final composite score calculation and the final ESG Score rank as follows:

$$Average(ROE\ ranking, (Financial\ Health\ ranking + Cash\ Flow\ Generation\ Ability\ ranking + Business\ Stability\ ranking)/3, final\ ESG\ Score\ ranking)$$

Component selection:

All stocks in the selection list are ranked by the composite score in descending order. The following selection rules apply:

3. For current components of the index, if its composite score is more than 95% of the composite score of the 200th stock, then it will remain in the index
4. When the number of stocks selected above is less than 200, the remaining constituents are selected in descending order by composite score from current non-components

If the composite score is the same for two stocks, the stock with the larger free-float market capitalization will be assigned the higher rank.

Review frequency:

The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last dissemination day of the month preceding the review month.

The composition of the respective universe index effective on the dissemination day following the third Friday of the review month is used as base universe.

Weighting cap factors:
Components weights are based on free-float market capitalization capped at a maximum weight of 2% on a quarterly basis in March, June, September and December based on the close prices of the dissemination day preceding the second Friday of the rebalancing month.

10.10.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the respective parent indices, but which remain in the STOXX Total Market Index, are not deleted from the index.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceeding.

10. iSTOXX MUTB INDICES

10.11. iSTOXX MUTB CHINA ALL SHARES AM QUALITY CONSUMER 50 INDEX

10.11.1. OVERVIEW

The iSTOXX MUTB China All Shares AM Quality Consumer 50 Index aims to capture the performance of quality healthcare companies with high profitability, low leverage and sustainable cash flows within the broader China universe. The component selection is based on a combined ranking of four fundamental ratios (return on equity, debt-to-capital, cash flow generation ability and business stability).

Universe: Consumer goods and services companies (Effective up until September 2020 review, ICB Industry Codes 3000 and 5000. Effective with September 2020 review, ICB Industry Codes 40 and 45.) within iSTOXX China All Shares AM (Accessible Market) Index.

Weighting scheme: The indices are weighted according to free float market capitalisation capped at 5%

Base values and dates: The following base values and dates apply: 100 on Dec 21, 2012

For a complete list please consult the data vendor code sheet on the website[11]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR, USD, KRW, HKD, JPY and CNY

Dissemination calendar: STOXX Global calendar

10.11.2. INDEX REVIEW

Selection list:
Companies are selected from within the Consumer Goods and Consumer Services (Effective up until September 2020 review, ICB Industry Codes 3000 and 5000. Effective with September 2020 review, ICB Industry Codes 40 and 45.) in the iSTOXX China All Shares AM Index universe. Percentile ranks are assigned to the following ratios, where rank 0 is the worst and rank 1 the best. In the cases where the ratio is the same for two stocks the larger stock by free-float market capitalisation shall have the higher score. Only stocks with positive Shareholder's Equity, Total Assets and Net Cash Flow from Operating Activities and non-missing current Total Debt and Net Income data are eligi-ble. Industrial stocks need to have a positive sum of Net Property, Plant and Equipment, Invento-ries and Accounts Receivables to be eligible.

» Return on Equity (ROE): calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned.

[11] http://www.STOXX.com/download/indices/vendor_codes.xls

» Financial Health: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned.

» Cash-Flow Generation Ability: calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank to be assigned.

» Business Stability: calculated as the standard deviation of Net Income over the last five years, divided by the latest Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available.

Using the set of percentile ranks calculated for screening purposes, a liquidity screening applies for non-components only. Companies need to ranked within the top 80% by liquidity to be eligible. The stocks that belong in the top 95% of all the 4 fundamental ratios are eligible in the selection list.

A composite quality score is calculated for all the stocks in the selection list using the percentile ranks calculated on the full universe as follows:

0.4 × ROE Ranking + 0.2 × (Financial Health ranking + Cash Flow Generation Ability ranking + Business Stability ranking)

If the composite score is the same for two stocks at the 50th threshold, the stock with higher ROE ranking will be selected for the index. If the ROE ranking is the same, the stock with the highest free-float market capitalisation will be selected.

Composition list: The top 50 components with the highest composite quality score are selected into the index.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last business day of the month prior the review month. The composition of the corresponding universe effective on the Monday following the third Friday of the review month is used as the base universe.

Weighting factors: Components are capped at a maximum weight of 5% on a quarterly basis. Weight factors are based on the close prices of the Thursday prior to the second Friday of the rebalancing month.

10.11.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the respective parent indices, but which remain in the STOXX Total Market Index and the STOXX China Total Market Indices, are not deleted from the index.

Fast exit: Not applicable.

10. iSTOXX MUTB INDICES

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

10. iSTOXX MUTB INDICES

10.12. iSTOXX MUTB GLOBAL EX JAPAN QUALITY 150 MONTHLY HEDGED INDEX

10.12.1. OVERVIEW

A currency-hedged index is designed to represent returns for global index investment strategies that involve hedging currency risk, but not the underlying constituent risk. The currency-hedged strategy indices eliminate the risk of currency fluctuations at the cost of potential currency gains.

The iSTOXX MUTB Global ex Japan Quality 150 Monthly Hedged Index is available in the following types and currencies: price, net and gross return, in JPY.

Base values and dates: 100 on January 30, 2009

Dissemination calendar: STOXX Global calendar

10.12.2. CALCULATIONS

The iSTOXX MUTB Global ex Japan Quality 150 Monthly Hedged Index measures the performance of the iSTOXX MUTB Global ex Japan Quality 150 Monthly Hedged Index while at the same time eliminating foreign currency fluctuations though hedging. The indices therefore combine the performance of the underlying index with a hypothetical, rolling investment into one-month foreign exchange forward contracts. The notional amount being hedged is reset on a monthly basis.

The full calculation methodology is covered in chapter 18 of the STOXX Strategy Guide.

10.13. iSTOXX MUTB JAPAN EMPOWERING WOMEN 30 INDEX

10.13.1. OVERVIEW

The constituents of the iSTOXX MUTB Japan Empowering Women 30 Index are selected from the iSTOXX MUTB Japan Quality 150 Index. The securities in the underlying index are screened for four indicators: ratio of women in management positions, ratio of women officer positions, day-care facilities and allowances and re-employment plan for employees that were out of work due to pregnancy, childcare, relocation and other reasons. An empowering women score is calculated from these four indicators. The iSTOXX MUTB Japan Empowering Women 30 Index selects 30 securities with the highest empowering women score from the iSTOXX MUTB Japan Quality 150 Index. In cases where more than one company has the same empowering women score at the 30th threshold, preference is given to the company with the highest composite quality score, as calculated for the iSTOXX MUTB Japan Quality 150 Index constituents.

Universe: The index universe is defined by all the stocks included in the iSTOXX MUTB Japan Quality 150 Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight

Base values and dates: 100 on June 20, 2008

Index types and currencies: Price, net and gross return in EUR, USD and JPY

Dissemination calendar: STOXX Global calendar

10.13.2. INDEX REVIEW

Selection list:
The iSTOXX MUTB Japan Quality 150 Index, as observed on the review effective dates defines the index universe. A composite empowering women score is calculated for all of the stocks in the selection list from the following four indicators sourced from Toyo Keizai:

- Ratio of management positions (women): each security is assigned a score of one if ratio is 30 or above, and a score of 0.5 if ratio is 15 or above but falls below 30. Otherwise, a zero score is assigned
- Ratio of officer positions (women): if the ratio is five or more, the company is assigned a score of one; if the ratio is 2.5 or above, but below 5, the company is assigned a score of 0.5. Otherwise, a zero score is assigned
- Day-care facility allowance: if a company provides these services, it receives a score of 1, otherwise 0
- Re-employment plan: if a company has re-employment plans, it receives a score of 1, otherwise 0

The empowering women score is the sum of these four sub-items.

Composition list:

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Effective up until September 2020 review, the securities in the selection list are allocated to one of the following industry groups based their ICB classifications:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, the securities in the selection list are allocated to one of the following industry groups based their ICB classifications:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

All eligible companies are then ranked in descending order of their empowering women scores. In the instances where more than one company has the same empowering women score for a given cut-off date, preference is given to the company with the highest composite quality score (same cut-off date), as calculated for the iSTOXX MUTB Quality Japan 150 Index constituents. Further information on the quality score can be found in the iSTOXX Methodology Guide.

The top 30 ranking companies are selected, with a maximum of 10 companies coming from each of the 11 industrial groupings.

Review frequency:
The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The

new composition of the iSTOXX MUTB Japan Quality 150 Index effective on the Monday following the third Friday of the review month (June and December) is used as the base universe.

Weighting factors:
All components are equal weighted on a quarterly basis in March, June, September and December.

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

10.13.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10. iSTOXX MUTB INDICES

10.14. iSTOXX MUTB GLOBAL EX AUSTRALIA QUALITY LEADERS 150 MONTHLY HEDGED INDEX

10.14.1. OVERVIEW

A currency-hedged index is designed to represent returns for global index investment strategies that involve hedging currency risk, but not the underlying constituent risk. The currency-hedged strategy indices eliminate the risk of currency fluctuations at the cost of potential currency gains.

The iSTOXX MUTB Global ex Australia Quality Leaders 150 Monthly Hedged Index is available in the following types and currencies: price, net and gross return, in AUD.

Base values and dates: 100 on December 31, 2002

Dissemination calendar: STOXX Global calendar

10.14.2. CALCULATIONS

The iSTOXX MUTB Global ex Australia Quality Leaders 150 Monthly Hedged Index measures the performance of the iSTOXX MUTB Global ex Australia Quality Leaders 150 Monthly Hedged Index while at the same time eliminating foreign currency fluctuations though hedging. The indices therefore combine the performance of the underlying index with a hypothetical, rolling investment into one-month foreign exchange forward contracts. The notional amount being hedged is reset on a monthly basis.

The full calculation methodology is covered in chapter 18 of the STOXX Strategy Guide.

10.15. iSTOXX MUTB JAPAN ESG 30 INDEX

10.15.1. OVERVIEW

The constituents of the iSTOXX MUTB Japan ESG 30 Index are selected from the iSTOXX MUTB Japan Quality 150 Index. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are not eligible for selection. The iSTOXX MUTB Japan ESG 30 Index selects 30 securities with the best ESG Risk Rating scores from the eligible securities in the iSTOXX MUTB Japan Quality 150 Index. In cases where more than one company has the same ESG Risk Rating score at the 30th threshold, preference is given to the company with the highest composite quality score, as calculated for the iSTOXX MUTB Japan Quality 150 Index constituents.

Universe: The index universe is defined by all the stocks included in the iSTOXX MUTB Japan Quality 150 Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight

Base values and dates: 100 on June 23, 2014

Index types and currencies: Price, net and gross return in EUR, USD and JPY

Dissemination calendar: STOXX Global calendar

10.15.2. INDEX REVIEW

The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied on the iSTOXX MUTB Japan Quality 150 Index.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale

» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

The remaining securities in the iSTOXX MUTB Japan Quality 150 Index are then screened for ESG Risk Rating scores, as provided by Sustainalytics. If a security does not have a score, it will not be considered for selection.

The eligible securities are allocated to one of the following industry groups based their ICB classifications:

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industry 30
Real Estate	Industry 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

The companies are then ranked in ascending order of their ESG Risk Rating scores (low score implies good ESG Risk Rating performance). In the instances where more than one company has the same ESG Risk Rating score for a given cut-off date, preference is given to the company with the highest composite quality score (same cut-off date), as calculated for the iSTOXX MUTB Quality Japan 150 Index constituents. Further information on the quality score can be found in the iSTOXX Methodology Guide.

The top 30 companies with the lowest ESG Risk Rating are selected, with a maximum of 10 companies coming from each of the 11 industrial groupings.

Review frequency:
The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the iSTOXX MUTB Japan Quality 150 Index effective on the Monday following the third Friday of the review month (June and December) is used as the base universe.

Weighting factors:
All components are equal weighted on a quarterly basis in March, June, September and December.

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

10.15.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10.16. iSTOXX MUTB JAPAN MARKET SHARE LEADERS INDEX

10.16.1. OVERVIEW

The iSTOXX MUTB Japan Market Share Leaders Index tracks the performance of at least 30 Japanese securities that have prominent positions in their area of operations. The securities are selected from the STOXX Japan 600 index, excluding REITs.

FactSet Revere (RBICS) data is used to identify revenue exposure and market presence, helping select companies that are market share leaders.

Universe: The index universe is defined by all the stocks in the STOXX Japan 600 Index and excluding REITs, identified by ICB codes 302030 and 351020.

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight

Base values and dates: 100 on June 22, 2015

Index types and currencies: Price, net and gross return in EUR, USD and JPY

Dissemination calendar: STOXX Global calendar

10.16.2. INDEX REVIEW

The STOXX Japan 600 Index, as observed on the review effective dates defines the index universe. Securities identified as REITs, ICB codes 302030 and 351020, are not eligible for selection. Market Share Score (MSS) is calculated for the eligible securities to identify those with large market share in Japan.

To obtain the MSS scores, the constituents of the STOXX Japan Total Market Index are screened for their absolute revenues, and their FactSet Revere (RBICS) Level 6 exposures. In case a company is present with multiple sharelines or listings in the index, only the most liquid share is eligible for selection and used for the MSS calculations.

For each of the remaining securities in the STOXX Japan TMI, aggregated Level 4 revenue exposures are obtained from the granular Level 6 sectors by summing over the Level 6 sector exposures that belong to the same Level 4 sectors. Absolute revenue for each company i coming from each L4 sector s, $S_{i,s}$, is calculated:

$$S_{i,s} = L4\ revenue\ exposure_{i,s}\ x\ Total\ Revenue_i$$

The market share of each company i in each sector s, $Market\ Share_{i,s}$, is obtained as follows:

$$Market\ Share_{i,s} = \frac{S_{i,s}}{\sum_{j=1}^{N} S_{j,s}}$$

A unique overall $Market\ Share\ Score_i$ is then calculated for the securities as follows:

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$$Market\ Share\ Score_i = \frac{\sum_{s=1}^{Sector} Market\ Share_{i,s} * S_{i,s}}{\sum_{s=1}^{Sector} S_{i,s}}$$

Where:

i	company i
s	sector s
N	number of securities in the STOXX Japan TMI with data
Sector	number of L4 sectors company i has exposure to

The Market Share Score (MSS) is mapped to the eligible securities, STOXX Japan 600 ex REITs. The companies are then ranked in descending order of their MSS scores. In the instances where more than one company has the same MSS score for a given cut-off date, preference is given to the company with the largest free float market capitalization. All companies with MSS score of 50% or higher are selected. If the number of constituents that meet this criterion is below 30, then 30 stocks with the highest MSS values will be selected.

Review frequency:
The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the STOXX Japan 600 Index effective on the Monday following the third Friday of the review month (June and December) is used as the base universe.

Weighting factors:
All components are equal weighted on a quarterly basis in March, June, September and December.

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

10.16.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Japan 600 Index, which remain in the STOXX Global Total Market Index are not deleted from the index.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10.17. iSTOXX MUTB JAPAN LOW CARBON RISK 30 INDEX

10.17.1. OVERVIEW

The constituents of the iSTOXX MUTB Japan Low Carbon Risk 30 Index are selected from the iSTOXX MUTB Japan Quality 150 Index. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are not eligible. The iSTOXX MUTB Japan Low Carbon Risk 30 Index selects 30 securities with the best (lowest) Carbon Risk Rating scores from the eligible securities in the iSTOXX MUTB Japan Quality 150 Index. In cases where more than one company has the same Carbon Risk Rating score at the 30th threshold, preference is given to the company with the highest composite quality score, as calculated for the iSTOXX MUTB Japan Quality 150 Index constituents.

Universe: The index universe is defined by all the stocks included in the iSTOXX MUTB Japan Quality 150 Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight

Base values and dates: 100 on June 23, 2014

Index types and currencies: Price, net and gross return in EUR, USD and JPY

Dissemination calendar: STOXX Global calendar

10.17.2. INDEX REVIEW

The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied on the iSTOXX MUTB Japan Quality 150 Index.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

» Internal production or sale
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

The remaining securities in the iSTOXX MUTB Japan Quality 150 Index are then screened for Carbon Risk Rating scores, as provided by Sustainalytics. If a security does not have a score, it will not be considered for selection.

The eligible securities are allocated to one of the following industry groups based their ICB classifications:

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industry 30
Real Estate	Industry 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

The companies are then ranked in ascending order of their Carbon Risk Rating scores (low score implies good Carbon Risk Rating performance). In the instances where more than one company has the same Carbon Risk Rating score for a given cut-off date, preference is given to the company with the highest composite quality score (same cut-off date), as calculated for the iSTOXX MUTB Quality Japan 150 Index constituents. Further information on the quality score can be found in the iSTOXX Methodology Guide.

The top 30 companies with the lowest Carbon Risk Rating are selected, with a maximum of 10 companies coming from each of the 11 industrial groupings.

Review frequency:
The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the iSTOXX MUTB Japan Quality 150 Index effective on the Monday following the third Friday of the review month (June and December) is used as the base universe.

Weighting factors:
All components are equal weighted on a quarterly basis in March, June, September and December.

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x wi / pi), rounded to the nearest integer value.

10.17.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

10. iSTOXX MUTB INDICES

10.18. iSTOXX MUTB JAPAN PLATINUM CAREER 150 INDEX

10.18.1. OVERVIEW

The iSTOXX MUTB Japan Platinum Career 150 Index tracks the performance of 150 Japanese companies that actively contribute to employee career development. The index selects companies with the highest platinum career score from the STOXX Japan 600 index constituents excluding REITs. Each company is evaluated on three aspects: long term view, active learning and social contribution. Platinum career score is calculated from the three sub scores assigned to each company for those three aspects. A filtering based on composite quality score that is derived from four fundamental ratios (return on equity, debt-to-capital, cash flow generation ability and business stability) is applied. Stocks need to fulfil minimum liquidity criteria before being added to the index. The index constituents are weighted according to the product of free float market capitalization and platinum career score with a capping of 2% weight.

Universe: The index is derived from its benchmark index, the STOXX Japan 600 index excluding constituents identified as REITs. REITs are identified by ICB Sector 8670 effective up until September 2020 review and by ICB 351020 and 302030 effective with September 2020 review.

Weighting scheme: The indices are price-weighted according to the product of free float market capitalization weight and the platinum career score with a 2% maximum capping per constituent

Base values and dates: 100 on Mar 19, 2012

For a complete list please consult the data vendor code sheet on the website[12]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR and USD and JPY

Dissemination calendar: STOXX Global calendar

10.18.2. INDEX REVIEW

Selection list:

On an annual basis in March, the following 3 sub scores are calculated for all the stocks in the universe:

1. Long Term View Score
2. Active Learning Score
3. Social Contribution Score

The data source is CSR data provided by Toyo Keizai. Each sub score above is calculated as the average of a set of sub items. For any sub item, if the values for all the KPIs specified in its

[12] http://www.STOXX.com/download/indices/vendor_codes.xls

calculation are not available for the STOXX Japan 600 ex-REITs universe, then this sub item is excluded from the calculation of the respective sub score.

» Long Term View Score (26 sub items)

1. Ratio of acquiring paid leaves (Last FY) [A00244]
   If ratio>=70 then 1, else 0

2. Change in No. of people taking childcare leave from Last FY but one to Last FY
   If ([A00347] - [A00346]) >=0 and [A00347]>0 then 1, else 0

3. Change in No. of men people taking childcare leave from Last FY but one to Last FY
   If ([A00353] - [A00352]) >=0 and [A00353]>0 then 1, else 0

4. Change in No. of people taking elderly care from Last FY but one to Last FY
   If ([A00383] - [A00382]) >=0 and [A00383]>0 then 1, else 0

5. Support for work life balance
   [A00388], [A00389], [A00390], [A00391], [A00392], [A00393], [A00394]
   If each value is 1, then 0.15, else 0.
   [A00397] If value is not null, then 0.15, else 0.
   The final value is the minimum of 1 and the summation of the eight scores.

6. Flexibility for work style
   [A00275], [A00277], [A00279], [A00281], [A00283], [A00285], [A00287], [A00289], [A00291], [A00293], [A00295]
   Effective up until 2018 review, if each value is 1 then 0.15, else 0.
   Effective with 2018 review, if each value is 1 then 0.1, else 0.
   The final value is the minimum of 1 and the summation of the eleven scores.

7. Re-employment and extension of retirement age until 65 years old [A00213]
   If value=1 then 1, else if value=2 then 0.5, else 0.

8. Ave. overtime hours and allowance
   [A00174] If value <=10 then 0.5, else if 10 < value <= 20 then 0.3, else if 20 < value <= 30 then 0.1, else 0.
   [A00176] If value>= 100000, then 0.5, else if 50000 <= value <100000 then 0.3, else if 30000 <= value < 50000 then 0.1, else 0.
   The final score is the summation of both scores.

9. Ave. wage (30 years old) [A00168]
   If value >= 500000 then 1, else if 400000 <= value < 500000 then 0.8, else if 300000 <= value < 400000 then 0.6, else if 250000 <= value < 300000 then 0.4, else if 200000 <= value < 250000 then 0.2, else 0.

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10. Total working hours per year [A00172]
    If value <= 1700 then 1, else if 1700 < value <= 1800 then 0.8, else if 1800 < value <= 1900 then 0.6, else if 1900 < value <= 2000 then 0.4, else if 2000 < value<=2200 then 0.2, else 0.

11. Establishment of internal and external whistle-blower hotlines
    [A00608] If value is 1 then 0.5, else 0.
    [A00610] If value is 1 then 0.5, else 0.
    The final score is a summation of both scores.

12. Establishment of rules on protection for whistle-blower [A00612]
    If value is 1 then 1, else 0.

13. Age limit system for managerial personnel [A01105]
    If value is 2 or 3 then 1, else 0.

14. Position after age limit system for managerial personnel [A01107]
    If value is 1 then 1, else if value is 2 or 3 then 0.5, else 0.

15. Retirement age for full time employee
    [A01109] if value is 2 then 1, else 0.
    [A01110] if value > 60 then 1, else 0.
    The final score is the minimum of 1 and the summation of the two scores.

16. Raise employment age
    [A01111], [A01113], [A01114], [A01116], [A01117], [A01118], [A01119], [A01121] if each value is 1 then 0.25, else 0.
    [A01112] if value >=66 then 0.25, else 0.
    The final score is the minimum of 1 and the summation of the nine scores.

17. Multiple Career path system [A01094]
    If value is 1 then 1, else 0.

18. Measures for Mental Health [A00258]
    If value is not null then 1, else 0.

19. The ratio for No. of graduate recruits in this year to three years ago [A00271]/[A00268]
    If ratio >=0.85 then 1, if 0.75 <= ratio < 0.85 then 0.5, else 0.

20. Ratio of childcare leave reinstatement (Last FY) [A00371]
    If ratio>=95 then 1, else if 80 <= ratio < 95 then 0.5, else 0.

21. Measures regarding human right due diligence [A00426]
    If value is 1 then 1, else 0

22. Systems of the skill up and growth for young employee
    [A01096], [A01097], [A01098], [A01099], [A01100], [A01101], [A01102], [A01103]
    if each value is 1 then 0.25, else 0.
    The final score is the minimum of 1 and the summation of the eight scores.

23. Remote work system [A01123]
    If value is 1 then 1, else 0.

24. Recruitment system for job change employees [A01170]
    If value is 1 then 1, else if value is 2 or 3 then 0.5, else 0.

25. Notable work-life balance support systems and its situation of utilization [A00397]
    If value is not null then 1, else 0.

26. Measures regarding respect for human rights, elimination of discrimination [A00428]
    If value is not null then 1, else 0.

» Active Learning Score (16 sub items)

1. Support systems for Career development
   [A00306], [A00308], [A00310], [A00312], [A00314], [A00316], [A00318], [A00320], [A00322] if each value is 1 then 0.1, else 0.
   [A00327], [A00329], [A00331] if each value is not null then 0.1, else 0.
   The final score is the minimum of 1 and the summation of the twelve scores.

2. Standards for skill and performance evaluation [A00437]
   If value is 1 then 1, else 0.

3. Disclosure of skill and performance evaluation results to the relevant employee [A00439]
   If value is 1 then 1, else 0.

4. Select training
   [A01195] if value is 1 then 0.25, else 0.
   [A01197] if value is 1 then 0.25, else if value is 4 then 0.75, else if value is 2 or 3 then 0.5, else 0.
   The final score is the summation of both scores.

5. Training cost per person [A01198]
   If value>=100000, then 1, if 50000<=value<100000, then 0.5, if 0<value<50000, then 0.2, else 0.

6. Career training [A01174]
   If value is 1 then 1, else 0.

7. Career training for over 50 age [A01176]
   If value is 1 then 1, else 0.

8. Career consultation [A01178]
   If value is 1 then 1, if value is 2, then 0.5, else 0.

9. Career consultant
   [A01181], [A01182] if each value is 1 then 1, else 0.
   [A01180], [A01183], [A01184] if each value is 1 then 0.25, else 0.
   The final score is the minimum of 1 and the summation of the five scores.

10. Support system for employees who challenge themselves
    [A01188] if each value is 1 then 0.5, else 0.
    [A01189], [A01190], [A01191], [A01192], [A01193] if each value is 1 then 0.25, else 0.
    The final score is the minimum of 1 and the summation of the six scores.

11. Internal evaluation system for external qualification
    [A01199], [A01200], [A01201], [A01202], [A01203], [A01204], [A01205] if each value is 1 then 0.25, else 0.
    The final score is the minimum of 1 and the summation of the seven scores.

12. Promotion of a non-regular employees to permanent employees [A01007]
    If value is not null then 1, else 0.

13. Presentation of Career map and path [A01172]
    If value is 1 then 1, else if value is 3 or 4 then 0.5, else 0.

14. Disclosure of required skills by department [A01186]
    If value is 1 then 1, else 0.

15. Implementation of protection for power harassment [A01207]
    If value is 1 then 1, else 0.

16. Side-business [A01147]
    If value is 1 then 1, else 0

» Social Contribution Score (15 sub items)

1. Leave system for volunteer activities [A00516]
   If value is 1 then 1, else 0.

2. Furlough system for volunteer activities [A00520] and System concerning participation in Japan Overseas Cooperation Volunteers (JOCV) [A00524]
   If each value is 1 then 0.5, else 0.

The final score is the summation of both scores.

3. Definition of the materiality of activities [A00457]
   If value is 1 then 1, else 0.

4. Management philosophy raising medium to long term corporate value [A00455]
   If value is 1 then 1, else 0.

5. Record of participation in local communities [A00705]
   If value is not null then 1, else 0.

6. Record of educational and academic support activities [A00706]
   If value is not null then 1, else 0.

7. Implementation of pro bono support measures [A00735]
   If value is 1 then 1, else 0.

8. Creating Shared Value (CSV) measures [A00709]
   If value is 1 then 1, else 0.

9. Sustainable Development Goals (SDGs): Target [A00719]
   If value is 1 then 1, else 0.

10. Matching gift system [A00528]
    If value is 1 then 1, else 0.

11. Collaboration with NPOs and NGOs in conjunction with CSR activities [A00530]
    If value is 1 then 1, else if value is 3 or 4 then 0.5, else 0.

12. Sustainable Development Goals (SDGs): Achievement standard [A01042]
    If value is 1 then 1, else 0.

13. Specific examples of overseas activities (Including CSR activities) [A00721]
    If value is not null then 1, else 0.

14. Measures of enhancing interest of employees in the social problem-solving [A01049]
    If value is 1 then 1, else 0.

15. Implementation of social contribution and activity through the business [A01209]
    If value is 1 then 1, if value is 2 or 3 then 0.5, else 0.

Additionally, a percentile rank is assigned to liquidity (defined below) for all stocks in the universe, where rank 0 is the worst and rank 1 is the best.

» **Liquidity**: calculated as the three-month Average Daily Traded Value (ADTV). The higher the liquidity, the higher the rank to be assigned.

Stocks with score below 0.2 for any of the 3 sub scores are not eligible for selection. A composite Platinum Career Score is calculated for all the remaining stocks as follows:

Platinum Career Score = 0.5 * Long Term View Score + 0.3 * Active Learning Score + 0.2 * Social Contribution Score

For the remaining stocks after the filtering based on the 3 sub scores, percentile ranks are assigned to the following four ratios, where rank 0 is the worst and rank 1 is the best. Stocks with missing values are excluded from the ranking process and then assigned a rank of 0.

- **Return on Equity (ROE)**: calculated as Net Income divided by Shareholder's Equity. The higher the value of the ratio, the higher the rank to be assigned. Stocks with negative Shareholders' Equity or Net Income are regarded as having missing values.

- **Financial Health**: calculated as Total Debt divided by the sum of Shareholder's Equity and Total Debt. The lower the value of the ratio, the higher the rank to be assigned. Stocks with negative Shareholders' Equity are regarded as having missing values.

- **Cash-Flow Generation Ability**:

  - For Financial stocks (Effective up until September 2020 review, identified by ICB Industry Code 8000.Effective with September 2020 review, identified by ICB Industry Code 30 and 35.): calculated as Net Cash-Flows from Operating Activities divided by Total Assets. The higher the value of the ratio, the higher the rank. Stocks with negative Total Assets are regarded as having missing values.

  - For industrial stocks (all stocks excluding Financials. Effective up until September 2020 review, identified by ICB Industry Code 8000.Effective with September 2020 review, identified by ICB Industry Code 30 and 35.): calculated as Net Cash-Flows from Operating Activities divided by the sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables. The higher the value of the ratio, the higher the rank. Stocks with negative sum of Net Property, Plant and Equipment, Inventories and Accounts Receivables are regarded as having missing values

    The percentile ranks from each group (financials / non-financials) form the final Cash-Flow Generation Ability rank.

- **Business Stability**: calculated as the standard deviation of Net Income over the last five years divided by Shareholder's Equity. The lower the value of the ratio, the higher the rank assigned. In order to calculate this ratio, Net Income data for at least three out of five periods should be available. Stocks with negative Shareholders' Equity are regarded as having missing values.

A composite quality score is calculated for all the remaining stocks using the previously calculated percentile ranks as follows:

0.4 × ROE ranking + 0.2 × (Financial Health ranking + Cash Flow Generation Ability ranking + Business Stability ranking)

The percentile ranks based on the composite quality score are then calculated for all the remaining stocks, where rank 0 is the worst and rank 1 the best.

Component selection:

Stocks with percentile ranks of composite quality score below a certain threshold are removed from the selection list, and the following rules are applied. The threshold is iterative (see below) and set to 0.5 at the beginning. All eligible stocks are ranked by their Platinum Career scores in descending order.

1. For a current component of the index, if its Platinum Career score is more than 95% of the Platinum Career score of the 150th stock in the selection list, then it will remain in the index.

2. If the number of stocks selected above is less than 150, the remaining constituents are selected by Platinum Career score, considered in descending order, from current non-components. For non-components a liquidity screening applies. Companies need to have a percentile rank of liquidity that is greater than or equal to 0.2.

If the Platinum Career score is the same for multiple stocks at the 150th threshold, the stock with the highest free-float market capitalization will be selected.

If the number of stocks in the selection list or the number of stocks selected as index components is below 150, the process is repeated by reducing the threshold by 0.1 until it reaches 0.3. If the number of stocks selected is still below 150 when using threshold 0.3, the stocks selected are the final index components (<150).

Review frequency: The index composition is reviewed annually in March. The review cut-off date is the last trading day of the preceding February.

Weighting factors: The weighting factors are calculated on a quarterly basis (March, June, September and December). The target weights of the final index constituents are calculated as follows:

$$\boldsymbol{w_i} = \frac{\boldsymbol{PC_i \times ffmcap_i}}{\sum_i^m \boldsymbol{PC_i \times ffmcap_i}}$$

Where:
PC_i = Platinum Career score of company i, calculated annually in March.
$ffmcap_i$ = free float market capitalization of company i, calculated using close price in EUR on the Thursday preceding the second Friday of the month.
m = number of companies in the final index

A capping of 2% is then applied to the target weights via an iterative process to derive the capped target weights of the final index constituents. The capped target weight of company i is denoted as cw_i.

The weighting factors are then calculated using the capped target weights and the closing price in EUR from the Thursday prior to the second Friday of the review month, as follows:

weighting factor $_i$ = (1,000,000,000 x cw_i / closing price $_i$), rounded to integers.

10.18.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from STOXX Japan 600 index, which remain in the STOXX Total Market index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is not added permanently to the index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

11. iSTOXX CENTENARY INDICES

11.1. iSTOXX EUROPE CENTENARY INDEX

11.1.1. OVERVIEW

The iSTOXX Europe Centenary Index selects companies from the STOXX Europe 600 Index that have been founded more than 100 years ago.

Universe: The index is derived from its benchmark index, the STOXX Europe 600 Index

Weighting scheme: The indices are weighted according to free-float market capitalization with a 10% maximum capping per constituent

Base values and dates: 100 on Dec 23, 2002

Index types and currencies: Price, Net and Gross return in EUR and USD

11.1.2. INDEX REVIEW

Selection list: All stocks from the STOXX Europe 600 that have been founded more than 100 years ago are selected to compose the iSTOXX Europe Centenary Index.

Review frequency: The reviews are conducted on a monthly basis. New compositions and underlying data are announced on the second Friday and implemented after the third Friday of each month. Cut-off date: 2nd Friday of the month.

Weighting cap factors: Components are capped at a maximum weight of 10%.

11.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Europe 600, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

11. iSTOXX CENTENARY INDICES

11.2. iSTOXX EUROPE CENTENARY SELECT 30 INDEX

11.2.1. OVERVIEW

The iSTOXX Europe Centenary Select 30 Index selects companies from the STOXX Europe 600 Index and weights them by liquidity. Companies must be founded more than 100 years ago, have a dividend ex-date within the next month and/or enough sensitivity in terms of beta to the EURO STOXX 50 Index. The number of companies from one industry is limited to ensure diversification.

Universe: The index is derived from its benchmark index, the STOXX Europe 600 Index

Weighting scheme: Constituents are ranked into three groups according to their 3 months average daily traded value (ADTV), with each group having the same weight, with a cap of 10%.

Base values and dates: 100 on Dec 23, 2002

Index types and currencies: Price, Net and Gross return in EUR and USD.

11.2.2. INDEX REVIEW

Selection List
All stocks fulfilling the following criteria will compose the selection list:

- Company was founded at least 100 years ago
- Country of incorporation of a company, as defined in the STOXX indices, represents more than 0.5% in terms of Free-Float market capitalization of the STOXX Europe 600 Index
- At least 3-month average daily traded value (ADTV) of 15 Mln EUR
- Maximum 6-month Beta to the EURO STOXX 50 of 1.5
- Both, companies with an ex-dividend date in the next month, as well as all companies without dividend ex-dates in the next month, are grouped and separately ranked top down by beta values per group. A company is eligible if it is among the 20 largest companies by beta with a dividend ex-date in the next month or is a company without dividend ex-date in the next month.

Component selection

- Starting at the top with the companies with a dividend ex-date in the next month and without changing the order, all companies are removed from the list, if their inclusion to the index would lead to more than seven companies within one of the ten ICB Industries (Effective with September 2020 review, within one of the eleven ICB Industries)
- The highest ranked 30 companies are selected for the index

Review frequency: The reviews are conducted on a monthly basis. New compositions are implemented after the third Friday of each month. The new compositions are announced on the second Friday with the underlying data (weighting factors) being calculated using previous Thursday's prices.
Weighting cap factors:

All companies are weighted according to their 3-month average daily traded value (ADTV).

ADTV level	Assigned weight
Below 30 mln EUR	1%
Between 30 and 60 mln EUR	2%
Above 60 mln EUR	All companies are assigned the same weight that has not yet been distributed.

All constituents weights are capped at 10% afterwards. If there is no constituent whose ADTV reaches 60 mln EUR, all weights are multiplied by 1 divided by the sum of all weights.

11.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Europe 600, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index.

12. iSTOXX DEMOGRAPHY INDICES

12.1. iSTOXX BROAD DEMOGRAPHY INDICES

12.1.1. OVERVIEW

The iSTOXX Global Broad Demography Index and iSTOXX Europe Broad Demography Index aim to select among respectively the STOXX Global 1800 and STOXX Europe 600, constituents that will be impacted by demographic changes.

Universe: Effective up until September 2020 review, all stocks from the STOXX Europe 600 and STOXX Global 1800 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	8350
Finance	Nonlife Insurance	8530
Finance	Life Insurance	8570
Finance	Financial Services	8770
Infrastructure	Construction & Materials	2350
Infrastructure	Aerospace & Defense	2710
Infrastructure	Electronic & Electrical Equipment	2730
Infrastructure	Industrial Engineering	2750
Infrastructure	Industrial Transportation	2770
Infrastructure	Electricity	7530
Infrastructure	Gas, Water & Multiutilities	7570
Leisure & Luxury	Automobiles & Parts	3350
Leisure & Luxury	Leisure Goods	3740
Leisure & Luxury	Travel & Leisure	5750
Pharmaceuticals	Health Care Equipment & Services	4530
Pharmaceuticals	Pharmaceuticals & Biotechnology	4570
Resources	Oil & Gas Producers	0530
Resources	Oil Equipment, Services & Distribution	0570
Resources	Alternative Energy	0580
Resources	Chemicals	1350
Resources	Forestry & Paper	1730
Resources	Industrial Metals & Mining	1750
Resources	Mining	1770
Real Estate	Real Estate Investment & Services	8630
Real Estate	Real Estate Investment Trusts	8670
Telecom, Media & Tech	Media	5550
Telecom, Media & Tech	Fixed Line Telecommunications	6530
Telecom, Media & Tech	Mobile Telecommunications	6570
Telecom, Media & Tech	Software & Computer Services	9530
Telecom, Media & Tech	Technology Hardware & Equipment	9570

12. iSTOXX DEMOGRAPHY INDICES

Effective with September 2020 review, all stocks from the STOXX Europe 600 and STOXX Global 1800 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	30101010
Finance	Consumer Lending	30201020
Finance	Mortgage Finance	30201025
Finance	Diversified Financial Services	30202000
Finance	Asset Managers and Custodians	30202010
Finance	Investment Services	30202015
Finance	Life Insurance	30301010
Finance	Full Line Insurance	30302010
Finance	Insurance Brokers	30302015
Finance	Reinsurance	30302020
Finance	Property and Casualty Insurance	30302025
Infrastructure	Electronic Components	10102015
Infrastructure	Construction	50101010
Infrastructure	Engineering and Contracting Services	50101015
Infrastructure	Building, Roofing/Wallboard and Plumbing	50101020
Infrastructure	Building: Climate Control	50101025
Infrastructure	Cement	50101030
Infrastructure	Building Materials: Other	50101035
Infrastructure	Aerospace	50201010
Infrastructure	Defense	50201020
Infrastructure	Electrical Components	50202010
Infrastructure	Electronic Equipment: Control and Filter	50202020
Infrastructure	Electronic Equipment: Gauges and Meters	50202025
Infrastructure	Electronic Equipment: Pollution Control	50202030
Infrastructure	Electronic Equipment: Other	50202040
Infrastructure	Machinery: Industrial	50204000
Infrastructure	Machinery: Agricultural	50204010
Infrastructure	Machinery: Construction and Handling	50204020
Infrastructure	Machinery: Engines	50204030
Infrastructure	Machinery: Tools	50204040
Infrastructure	Machinery: Specialty	50204050
Infrastructure	Trucking	50206010
Infrastructure	Commercial Vehicles and Parts	50206015

12. iSTOXX DEMOGRAPHY INDICES

Infrastructure	Railroads	50206020
Infrastructure	Railroad Equipment	50206025
Infrastructure	Marine Transportation	50206030
Infrastructure	Delivery Services	50206040
Infrastructure	Transportation Services	50206060
Infrastructure	Metal Fabricating	55102015
Infrastructure	Alternative Electricity	65101010
Infrastructure	Conventional Electricity	65101015
Infrastructure	Multi-utilities	65102000
Infrastructure	Gas Distribution	65102020
Infrastructure	Water	65102030
Leisure & Luxury	Tires	40101015
Leisure & Luxury	Automobiles	40101020
Leisure & Luxury	Auto Parts	40101025
Leisure & Luxury	Vending and Catering Service	40201060
Leisure & Luxury	Consumer Electronics	40203010
Leisure & Luxury	Electronic Entertainment	40203040
Leisure & Luxury	Toys	40203045
Leisure & Luxury	Recreational Products	40203050
Leisure & Luxury	Recreational Vehicles and Boats	40203055
Leisure & Luxury	Photography	40203060
Leisure & Luxury	Airlines	40501010
Leisure & Luxury	Travel and Tourism	40501015
Leisure & Luxury	Casinos and Gambling	40501020
Leisure & Luxury	Hotels and Motels	40501025
Leisure & Luxury	Recreational Services	40501030
Leisure & Luxury	Restaurants and Bars	40501040
Pharmaceuticals	Health Care Facilities	20101010
Pharmaceuticals	Health Care Management Services	20101020
Pharmaceuticals	Health Care Services	20101025
Pharmaceuticals	Health Care: Misc.	20101030
Pharmaceuticals	Medical Equipment	20102010
Pharmaceuticals	Medical Supplies	20102015
Pharmaceuticals	Medical Services	20102020
Pharmaceuticals	Biotechnology	20103010
Pharmaceuticals	Pharmaceuticals	20103015
Real Estate	Mortgage REITs: Diversified	30203000
Real Estate	Mortgage REITs: Commercial	30203010
Real Estate	Mortgage REITs: Residential	30203020
Real Estate	Real Estate Holding and Development	35101010
Real Estate	Real Estate Services	35101015
Real Estate	Diversified REITs	35102000
Real Estate	Health Care REITs	35102010
Real Estate	Hotel and Lodging REITs	35102015

12. iSTOXX DEMOGRAPHY INDICES

Real Estate	Industrial REITs	35102020
Real Estate	Infrastructure REITs	35102025
Real Estate	Office REITs	35102030
Real Estate	Residential REITs	35102040
Real Estate	Retail REITs	35102045
Real Estate	Storage REITs	35102050
Real Estate	Timber REITs	35102060
Real Estate	Other Specialty REITs	35102070
Resources	Paints and Coatings	50203010
Resources	Plastics	50203015
Resources	Glass	50203020
Resources	Diversified Materials	55101000
Resources	Forestry	55101010
Resources	Paper	55101015
Resources	General Mining	55102000
Resources	Iron and Steel	55102010
Resources	Aluminum	55102035
Resources	Copper	55102040
Resources	Nonferrous Metals	55102050
Resources	Diamonds and Gemstones	55103020
Resources	Gold Mining	55103025
Resources	Platinum and Precious Metals	55103030
Resources	Chemicals: Diversified	55201000
Resources	Chemicals and Synthetic Fibers	55201010
Resources	Fertilizers	55201015
Resources	Specialty Chemicals	55201020
Resources	Integrated Oil and Gas	60101000
Resources	Oil: Crude Producers	60101010
Resources	Offshore Drilling and Other Services	60101015
Resources	Oil Refining and Marketing	60101020
Resources	Oil Equipment and Services	60101030
Resources	Pipelines	60101035
Resources	Coal	60101040
Resources	Alternative Fuels	60102010
Resources	Renewable Energy Equipment	60102020
Telecom, Media & Tech	Computer Services	10101010
Telecom, Media & Tech	Software	10101015
Telecom, Media & Tech	Consumer Digital Services	10101020
Telecom, Media & Tech	Semiconductors	10102010
Telecom, Media & Tech	Production Technology Equipment	10102020
Telecom, Media & Tech	Computer Hardware	10102030
Telecom, Media & Tech	Electronic Office Equipment	10102035
Telecom, Media & Tech	Telecommunications Equipment	15101010
Telecom, Media & Tech	Cable Television Services	15102010
Telecom, Media & Tech	Telecommunications Services	15102015

Telecom, Media & Tech	Entertainment	40301010
Telecom, Media & Tech	Media Agencies	40301020
Telecom, Media & Tech	Publishing	40301030
Telecom, Media & Tech	Radio and TV Broadcasters	40301035

All constituents linked to one ICB sector not mentioned in this table will be excluded from the base universe.

Weighting scheme: free-float market capitalization with weighting cap limit of 10% per constituent

Base value and date: 100 as of Mar 22, 2004

Index types and currencies: Price, net and gross return in EUR and USD.

12.1.2. INDEX REVIEW

Component selection
All constituents whose ICB code falls into one of the categories mentioned above are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

12.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the Index

12. iSTOXX DEMOGRAPHY INDICES

12.2. iSTOXX EUROPE DEMOGRAPHY 50 INDEX

12.2.1. OVERVIEW

The iSTOXX Europe Demography 50 index aims to select 50 stocks among diversified industries from the STOXX Europe 600 index to weight them by the inverse of the volatility. The companies are chosen from sectors that are positively affected by demographic change. Further the companies need to have high dividend yield and low volatility.

Universe: Effective up until September 2020 review, all stocks from the STOXX Europe 600 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	8350
Finance	Nonlife Insurance	8530
Finance	Life Insurance	8570
Finance	Financial Services	8770
Infrastructure	Construction & Materials	2350
Infrastructure	Aerospace & Defense	2710
Infrastructure	Electronic & Electrical Equipment	2730
Infrastructure	Industrial Engineering	2750
Infrastructure	Industrial Transportation	2770
Infrastructure	Electricity	7530
Infrastructure	Gas, Water & Multiutilities	7570
Leisure & Luxury	Automobiles & Parts	3350
Leisure & Luxury	Leisure Goods	3740
Leisure & Luxury	Travel & Leisure	5750
Pharmaceuticals	Health Care Equipment & Services	4530
Pharmaceuticals	Pharmaceuticals & Biotechnology	4570
Resources	Oil & Gas Producers	0530
Resources	Oil Equipment, Services & Distribution	0570
Resources	Alternative Energy	0580
Resources	Chemicals	1350
Resources	Forestry & Paper	1730
Resources	Industrial Metals & Mining	1750
Resources	Mining	1770
Real Estate	Real Estate Investment & Services	8630
Real Estate	Real Estate Investment Trusts	8670
Telecom, Media & Tech	Media	5550
Telecom, Media & Tech	Fixed Line Telecommunications	6530
Telecom, Media & Tech	Mobile Telecommunications	6570
Telecom, Media & Tech	Software & Computer Services	9530
Telecom, Media & Tech	Technology Hardware & Equipment	9570

12. iSTOXX DEMOGRAPHY INDICES

Effective with September 2020 review, all stocks from the STOXX Europe 600 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	30101010
Finance	Consumer Lending	30201020
Finance	Mortgage Finance	30201025
Finance	Diversified Financial Services	30202000
Finance	Asset Managers and Custodians	30202010
Finance	Investment Services	30202015
Finance	Life Insurance	30301010
Finance	Full Line Insurance	30302010
Finance	Insurance Brokers	30302015
Finance	Reinsurance	30302020
Finance	Property and Casualty Insurance	30302025
Infrastructure	Electronic Components	10102015
Infrastructure	Construction	50101010
Infrastructure	Engineering and Contracting Services	50101015
Infrastructure	Building, Roofing/Wallboard and Plumbing	50101020
Infrastructure	Building: Climate Control	50101025
Infrastructure	Cement	50101030
Infrastructure	Building Materials: Other	50101035
Infrastructure	Aerospace	50201010
Infrastructure	Defense	50201020
Infrastructure	Electrical Components	50202010
Infrastructure	Electronic Equipment: Control and Filter	50202020
Infrastructure	Electronic Equipment: Gauges and Meters	50202025
Infrastructure	Electronic Equipment: Pollution Control	50202030
Infrastructure	Electronic Equipment: Other	50202040
Infrastructure	Machinery: Industrial	50204000
Infrastructure	Machinery: Agricultural	50204010
Infrastructure	Machinery: Construction and Handling	50204020
Infrastructure	Machinery: Engines	50204030
Infrastructure	Machinery: Tools	50204040
Infrastructure	Machinery: Specialty	50204050
Infrastructure	Trucking	50206010
Infrastructure	Commercial Vehicles and Parts	50206015
Infrastructure	Railroads	50206020

12. iSTOXX DEMOGRAPHY INDICES

Infrastructure	Railroad Equipment	50206025
Infrastructure	Marine Transportation	50206030
Infrastructure	Delivery Services	50206040
Infrastructure	Transportation Services	50206060
Infrastructure	Metal Fabricating	55102015
Infrastructure	Alternative Electricity	65101010
Infrastructure	Conventional Electricity	65101015
Infrastructure	Multi-utilities	65102000
Infrastructure	Gas Distribution	65102020
Infrastructure	Water	65102030
Leisure & Luxury	Tires	40101015
Leisure & Luxury	Automobiles	40101020
Leisure & Luxury	Auto Parts	40101025
Leisure & Luxury	Vending and Catering Service	40201060
Leisure & Luxury	Consumer Electronics	40203010
Leisure & Luxury	Electronic Entertainment	40203040
Leisure & Luxury	Toys	40203045
Leisure & Luxury	Recreational Products	40203050
Leisure & Luxury	Recreational Vehicles and Boats	40203055
Leisure & Luxury	Photography	40203060
Leisure & Luxury	Airlines	40501010
Leisure & Luxury	Travel and Tourism	40501015
Leisure & Luxury	Casinos and Gambling	40501020
Leisure & Luxury	Hotels and Motels	40501025
Leisure & Luxury	Recreational Services	40501030
Leisure & Luxury	Restaurants and Bars	40501040
Pharmaceuticals	Health Care Facilities	20101010
Pharmaceuticals	Health Care Management Services	20101020
Pharmaceuticals	Health Care Services	20101025
Pharmaceuticals	Health Care: Misc.	20101030
Pharmaceuticals	Medical Equipment	20102010
Pharmaceuticals	Medical Supplies	20102015
Pharmaceuticals	Medical Services	20102020
Pharmaceuticals	Biotechnology	20103010
Pharmaceuticals	Pharmaceuticals	20103015
Real Estate	Mortgage REITs: Diversified	30203000
Real Estate	Mortgage REITs: Commercial	30203010
Real Estate	Mortgage REITs: Residential	30203020
Real Estate	Real Estate Holding and Development	35101010
Real Estate	Real Estate Services	35101015
Real Estate	Diversified REITs	35102000
Real Estate	Health Care REITs	35102010
Real Estate	Hotel and Lodging REITs	35102015
Real Estate	Industrial REITs	35102020

12. iSTOXX DEMOGRAPHY INDICES

Real Estate	Infrastructure REITs	35102025
Real Estate	Office REITs	35102030
Real Estate	Residential REITs	35102040
Real Estate	Retail REITs	35102045
Real Estate	Storage REITs	35102050
Real Estate	Timber REITs	35102060
Real Estate	Other Specialty REITs	35102070
Resources	Paints and Coatings	50203010
Resources	Plastics	50203015
Resources	Glass	50203020
Resources	Diversified Materials	55101000
Resources	Forestry	55101010
Resources	Paper	55101015
Resources	General Mining	55102000
Resources	Iron and Steel	55102010
Resources	Aluminum	55102035
Resources	Copper	55102040
Resources	Nonferrous Metals	55102050
Resources	Diamonds and Gemstones	55103020
Resources	Gold Mining	55103025
Resources	Platinum and Precious Metals	55103030
Resources	Chemicals: Diversified	55201000
Resources	Chemicals and Synthetic Fibers	55201010
Resources	Fertilizers	55201015
Resources	Specialty Chemicals	55201020
Resources	Integrated Oil and Gas	60101000
Resources	Oil: Crude Producers	60101010
Resources	Offshore Drilling and Other Services	60101015
Resources	Oil Refining and Marketing	60101020
Resources	Oil Equipment and Services	60101030
Resources	Pipelines	60101035
Resources	Coal	60101040
Resources	Alternative Fuels	60102010
Resources	Renewable Energy Equipment	60102020
Telecom, Media & Tech	Computer Services	10101010
Telecom, Media & Tech	Software	10101015
Telecom, Media & Tech	Consumer Digital Services	10101020
Telecom, Media & Tech	Semiconductors	10102010
Telecom, Media & Tech	Production Technology Equipment	10102020
Telecom, Media & Tech	Computer Hardware	10102030
Telecom, Media & Tech	Electronic Office Equipment	10102035
Telecom, Media & Tech	Telecommunications Equipment	15101010
Telecom, Media & Tech	Cable Television Services	15102010
Telecom, Media & Tech	Telecommunications Services	15102015
Telecom, Media & Tech	Entertainment	40301010

Telecom, Media & Tech	Media Agencies	40301020
Telecom, Media & Tech	Publishing	40301030
Telecom, Media & Tech	Radio and TV Broadcasters	40301035

Weighting scheme: Price-weighted with a weighting factor according to the inverse of the 12-months historical volatility and additionally with weighting cap limit of 10% per constituent

Base value and date: 100 as of Mar 22, 2004
Index types and currencies: Price, net and gross return in EUR and USD.

12.2.2. INDEX REVIEW

Selection list
The review cut-off date is the last trading day of the month preceding the review of the index.

- All stocks in the relevant base universe are screened for 12-months historical volatility and 12-months historical dividend yield. If one or both values are not available for a stock, the company is removed from the base universe.
- The remaining constituents – composing the selection universe - are grouped into 7 industry clusters following the ICB matching table provided above (Finance, Infrastructure, Leisure & Luxury, Pharmaceuticals, Resources, Real Estate and Telecom & Media & Tech).
- In each group, all constituents are ranked according to the historical dividend yield in descending order and the top x% is selected for the next step, where x is calculated as following:

$x = \sqrt{\frac{50}{N}}$ with N being the total number of stocks in the Selection Universe

To create the selection list all remaining stocks are then ranked according to their historical volatility (based on EUR prices) in ascending order and given a rank (with rank 1 being for the lowest volatile stocks).

Component selection
- The highest ranked 40 stocks of the selection list are selected
- The remaining 10 stocks are selected from the highest ranked current stocks (already in the index before the review) ranked between 41 and 60
- If the number of stocks selected is still below 50, the highest ranked remaining stocks (not in the index before the review) are selected until there are 50 stocks in the final index
- A maximum of 15 constituents per industry group can be selected (with no minimum numbers of constituents per industry). If one industry group reaches the limit of 15 members, no further companies from that group are eligible for the index inclusion.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

12. iSTOXX DEMOGRAPHY INDICES

12.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Europe 600, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

12. iSTOXX DEMOGRAPHY INDICES

12.3. iSTOXX GLOBAL DEMOGRAPHY SELECT 50 INDEX

12.3.1. OVERVIEW

The iSTOXX Global Demography Select 50 index aims to select, among the STOXX Global 1800 filtered by sectors, 50 constituents with high dividend and low volatility. The components are weighted by the inverse of the volatility.

Universe: Effective up until September 2020 review, all stocks from the STOXX Global 1800 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	8350
Finance	Nonlife Insurance	8530
Finance	Life Insurance	8570
Finance	Financial Services	8770
Infrastructure	Construction & Materials	2350
Infrastructure	Aerospace & Defense	2710
Infrastructure	Electronic & Electrical Equipment	2730
Infrastructure	Industrial Engineering	2750
Infrastructure	Industrial Transportation	2770
Infrastructure	Electricity	7530
Infrastructure	Gas, Water & Multiutilities	7570
Leisure & Luxury	Automobiles & Parts	3350
Leisure & Luxury	Leisure Goods	3740
Leisure & Luxury	Travel & Leisure	5750
Pharmaceuticals	Health Care Equipment & Services	4530
Pharmaceuticals	Pharmaceuticals & Biotechnology	4570
Resources	Oil & Gas Producers	0530
Resources	Oil Equipment, Services & Distribution	0570
Resources	Alternative Energy	0580
Resources	Chemicals	1350
Resources	Forestry & Paper	1730
Resources	Industrial Metals & Mining	1750
Resources	Mining	1770
Real Estate	Real Estate Investment & Services	8630
Real Estate	Real Estate Investment Trusts	8670
Telecom, Media & Tech	Media	5550
Telecom, Media & Tech	Fixed Line Telecommunications	6530
Telecom, Media & Tech	Mobile Telecommunications	6570
Telecom, Media & Tech	Software & Computer Services	9530
Telecom, Media & Tech	Technology Hardware & Equipment	9570

12. iSTOXX DEMOGRAPHY INDICES

Effective with September 2020 review, all stocks from the STOXX Global 1800 whose Industry Classification as defined by ICB falls into one of the following groups are eligible.

Industry	ICB Sector	ICB Code
Finance	Banks	30101010
Finance	Consumer Lending	30201020
Finance	Mortgage Finance	30201025
Finance	Diversified Financial Services	30202000
Finance	Asset Managers and Custodians	30202010
Finance	Investment Services	30202015
Finance	Life Insurance	30301010
Finance	Full Line Insurance	30302010
Finance	Insurance Brokers	30302015
Finance	Reinsurance	30302020
Finance	Property and Casualty Insurance	30302025
Infrastructure	Electronic Components	10102015
Infrastructure	Construction	50101010
Infrastructure	Engineering and Contracting Services	50101015
Infrastructure	Building, Roofing/Wallboard and Plumbing	50101020
Infrastructure	Building: Climate Control	50101025
Infrastructure	Cement	50101030
Infrastructure	Building Materials: Other	50101035
Infrastructure	Aerospace	50201010
Infrastructure	Defense	50201020
Infrastructure	Electrical Components	50202010
Infrastructure	Electronic Equipment: Control and Filter	50202020
Infrastructure	Electronic Equipment: Gauges and Meters	50202025
Infrastructure	Electronic Equipment: Pollution Control	50202030
Infrastructure	Electronic Equipment: Other	50202040
Infrastructure	Machinery: Industrial	50204000
Infrastructure	Machinery: Agricultural	50204010
Infrastructure	Machinery: Construction and Handling	50204020
Infrastructure	Machinery: Engines	50204030
Infrastructure	Machinery: Tools	50204040
Infrastructure	Machinery: Specialty	50204050
Infrastructure	Trucking	50206010
Infrastructure	Commercial Vehicles and Parts	50206015
Infrastructure	Railroads	50206020
Infrastructure	Railroad Equipment	50206025

12. iSTOXX DEMOGRAPHY INDICES

Infrastructure	Marine Transportation	50206030
Infrastructure	Delivery Services	50206040
Infrastructure	Transportation Services	50206060
Infrastructure	Metal Fabricating	55102015
Infrastructure	Alternative Electricity	65101010
Infrastructure	Conventional Electricity	65101015
Infrastructure	Multi-utilities	65102000
Infrastructure	Gas Distribution	65102020
Infrastructure	Water	65102030
Leisure & Luxury	Tires	40101015
Leisure & Luxury	Automobiles	40101020
Leisure & Luxury	Auto Parts	40101025
Leisure & Luxury	Vending and Catering Service	40201060
Leisure & Luxury	Consumer Electronics	40203010
Leisure & Luxury	Electronic Entertainment	40203040
Leisure & Luxury	Toys	40203045
Leisure & Luxury	Recreational Products	40203050
Leisure & Luxury	Recreational Vehicles and Boats	40203055
Leisure & Luxury	Photography	40203060
Leisure & Luxury	Airlines	40501010
Leisure & Luxury	Travel and Tourism	40501015
Leisure & Luxury	Casinos and Gambling	40501020
Leisure & Luxury	Hotels and Motels	40501025
Leisure & Luxury	Recreational Services	40501030
Leisure & Luxury	Restaurants and Bars	40501040
Pharmaceuticals	Health Care Facilities	20101010
Pharmaceuticals	Health Care Management Services	20101020
Pharmaceuticals	Health Care Services	20101025
Pharmaceuticals	Health Care: Misc.	20101030
Pharmaceuticals	Medical Equipment	20102010
Pharmaceuticals	Medical Supplies	20102015
Pharmaceuticals	Medical Services	20102020
Pharmaceuticals	Biotechnology	20103010
Pharmaceuticals	Pharmaceuticals	20103015
Real Estate	Mortgage REITs: Diversified	30203000
Real Estate	Mortgage REITs: Commercial	30203010
Real Estate	Mortgage REITs: Residential	30203020
Real Estate	Real Estate Holding and Development	35101010
Real Estate	Real Estate Services	35101015
Real Estate	Diversified REITs	35102000
Real Estate	Health Care REITs	35102010
Real Estate	Hotel and Lodging REITs	35102015
Real Estate	Industrial REITs	35102020
Real Estate	Infrastructure REITs	35102025

12. iSTOXX DEMOGRAPHY INDICES

Real Estate	Office REITs	35102030
Real Estate	Residential REITs	35102040
Real Estate	Retail REITs	35102045
Real Estate	Storage REITs	35102050
Real Estate	Timber REITs	35102060
Real Estate	Other Specialty REITs	35102070
Resources	Paints and Coatings	50203010
Resources	Plastics	50203015
Resources	Glass	50203020
Resources	Diversified Materials	55101000
Resources	Forestry	55101010
Resources	Paper	55101015
Resources	General Mining	55102000
Resources	Iron and Steel	55102010
Resources	Aluminum	55102035
Resources	Copper	55102040
Resources	Nonferrous Metals	55102050
Resources	Diamonds and Gemstones	55103020
Resources	Gold Mining	55103025
Resources	Platinum and Precious Metals	55103030
Resources	Chemicals: Diversified	55201000
Resources	Chemicals and Synthetic Fibers	55201010
Resources	Fertilizers	55201015
Resources	Specialty Chemicals	55201020
Resources	Integrated Oil and Gas	60101000
Resources	Oil: Crude Producers	60101010
Resources	Offshore Drilling and Other Services	60101015
Resources	Oil Refining and Marketing	60101020
Resources	Oil Equipment and Services	60101030
Resources	Pipelines	60101035
Resources	Coal	60101040
Resources	Alternative Fuels	60102010
Resources	Renewable Energy Equipment	60102020
Telecom, Media & Tech	Computer Services	10101010
Telecom, Media & Tech	Software	10101015
Telecom, Media & Tech	Consumer Digital Services	10101020
Telecom, Media & Tech	Semiconductors	10102010
Telecom, Media & Tech	Production Technology Equipment	10102020
Telecom, Media & Tech	Computer Hardware	10102030
Telecom, Media & Tech	Electronic Office Equipment	10102035
Telecom, Media & Tech	Telecommunications Equipment	15101010
Telecom, Media & Tech	Cable Television Services	15102010
Telecom, Media & Tech	Telecommunications Services	15102015
Telecom, Media & Tech	Entertainment	40301010
Telecom, Media & Tech	Media Agencies	40301020

Telecom, Media & Tech	Publishing	40301030
Telecom, Media & Tech	Radio and TV Broadcasters	40301035

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility)

Base value and date: 100 as of Mar 22, 2004

Index types and currencies: Price, net and gross return in EUR

12.3.2. INDEX REVIEW

Selection list

The review cut-off date is the last trading day of the month preceding the review month of the index.

All stocks in the relevant base universe are screened for 12-month historical daily pricing data and 12-month historical dividend yield. If one or both values are not available for a stock, the company is removed from the base universe.

Composition list:

The following Equal Strength Ratio is calculated

$$\mathrm{ESR} = \sqrt{\frac{50}{\mathrm{N}}}$$

where,
N Number of stocks in the Eligible Universe

All stocks from the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in EUR) and companies are selected based on the ESR.

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (\mathrm{ESR} \times \mathrm{N})$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked 50 stocks are selected for the final index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The prices based on the Thursday prior to the second Friday of the month.

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

wi weight of component (i)
σi Maximum between the historical 12-months and 3-months volatility of component (i)

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR), rounded to integers. Additionally components are capped at a maximum weight of 10%.

12.3.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the Index

13. iSTOXX GLOBAL TRANSITIONS INDICES

13.1. iSTOXX GLOBAL TRANSITIONS SELECT 30

13.1.1. OVERVIEW

The iSTOXX Global Transitions Select 30 Index defines three major channels of global changes - Social Evolutions, Resources Scarcity and Infrastructure – and selects out of the three universes low volatility, high dividend and high liquidity stocks.

Universe: The index universe is defined by all stocks from the STOXX Global 3000, STOXX Global Broad Infrastructure, STOXX Global Extended Infrastructure 100 and STOXX Global Infrastructure Suppliers 50 indices

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 22, 2004
Index types and currencies: Price, net and gross return in EUR and USD
For a complete list, please consult the data vendor code sheet on the website[13].

13.1.2. INDEX REVIEW

Selection list:

The review cut-off date is the last trading day of the month preceding the review month of the index.

The Selection list is obtained by selecting from the Universe the stocks that fulfil the following conditions:

1. Availability of both 12-month historical dividend yield and 3-month ADTV in EUR
2. 3-month ADTV in EUR above EUR 8 million
3. Suspension from trading for not more than 10% of the STOXX calendar trading days:

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

Effective up until September 2020 review, the remaining stocks are grouped as follows to form the Selection list:

Group	Universe
Social Evolutions	All stocks from the STOXX Global 3000 Index with the following ICB code: 2730 – Electronic & Electrical Equipment 2757 – Industrial Machinery 2795 – Financial Administration 3740 – Leisure Goods

[13] http://www.STOXX.com/download/indices/vendor_codes.xls

13. iSTOXX GLOBAL TRANSITIONS INDICES

	4000 – Health Care 5333 – Drug retailers 5377 – Specialized Consumer Services 5700 – Travel & Leisure 6575 – Mobile Telecommunications 8500 – Insurance 8700 – Financial Services 9500 – Technology
Resources Scarcity	All stocks from the STOXX Global 3000 Index with the following ICB code: 0580 – Alternative Energy 1700 – Basic Resources 3500 – Food 7500 – Utilities
Infrastructure	All stocks from STOXX Global Broad Infrastructure Index, the STOXX Global Extended Infrastructure 100 Index and the STOXX Global Infrastructure Suppliers 50 Index indices. All stocks from the STOXX Global 3000 Index with the following ICB code: 2300 – Construction & materials 2770 – Industrial Transportation 3300 – Automobile and parts

Effective with September 2020 review, the remaining stocks are grouped as follows to form the Selection list:

Group	Universe
Social Evolutions	All stocks from the STOXX Global 3000 Index with the following ICB code: 10101010 – Computer Services 10101015 – Software 10101020 – Consumer Digital Services 10102010 – Semiconductors 10102015 – Electronic Components 10102020 – Production Technology Equipment 10102030 – Computer Hardware 10102035 – Electronic Office Equipment 15101010 – Telecommunications Equipment 15102015 – Telecommunications Services 20101010 – Health Care Facilities 20101020 – Health Care Management Services

13. iSTOXX GLOBAL TRANSITIONS INDICES

20101025 – Health Care Services
20101030 – Health Care: Misc.
20102010 – Medical Equipment
20102015 – Medical Supplies
20102020 – Medical Services
20103010 – Biotechnology
20103015 – Pharmaceuticals
30201020 – Consumer Lending
30201025 – Mortgage Finance
30201030 – Financial Data Providers
30202000 – Diversified Financial Services
30202010 – Asset Managers and Custodians
30202015 – Investment Services
30301010 – Life Insurance
30302010 – Full Line Insurance
30302015 – Insurance Brokers
30302020 – Reinsurance
30302025 – Property and Casualty Insurance
40101010 – Auto Services
40201010 – Education Services
40201020 – Funeral Parlors and Cemetery
40201030 – Printing and Copying Services
40201040 – Rental and Leasing Services: Consumer
40201050 – Storage Facilities
40201070 – Consumer Services: Misc.
40203010 – Consumer Electronics
40203040 – Electronic Entertainment
40203045 – Toys
40203050 – Recreational Products
40203055 – Recreational Vehicles and Boats
40203060 – Photography
40501010 – Airlines
40501015 – Travel and Tourism
40501020 – Casinos and Gambling
40501025 – Hotels and Motels
40501030 – Recreational Services
40501040 – Restaurants and Bars
45201015 – Drug Retailers

13. iSTOXX GLOBAL TRANSITIONS INDICES

	50202010 – Electrical Components 50202020 – Electronic Equipment: Control and Filter 50202025 – Electronic Equipment: Gauges and Meters 50202030 – Electronic Equipment: Pollution Control 50202040 – Electronic Equipment: Other 50204000 – Machinery: Industrial 50204030 – Machinery: Engines 50204040 – Machinery: Tools 50204050 – Machinery: Specialty 50205015 – Transaction Processing Services 55102015 – Metal Fabricating 40201060 – Vending and Catering Service
Resource Scarcity	All stocks from the STOXX Global 3000 Index with the following ICB code: 45101010 – Brewers 45101015 – Distillers and Vintners 45101020 – Soft Drinks 45102010 – Farming, Fishing, Ranching and Plantations 45102020 – Food Products 45102030 – Fruit and Grain Processing 45102035 – Sugar 55101010 – Forestry 55101015 – Paper 55102000 – General Mining 55102010 – Iron and Steel 55102035 – Aluminum 55102040 – Copper 55102050 – Nonferrous Metals 55103020 – Diamonds and Gemstones 55103025 – Gold Mining 55103030 – Platinum and Precious Metals 60101040 – Coal 60102010 – Alternative Fuels 60102020 – Renewable Energy Equipment 65101010 – Alternative Electricity 65101015 – Conventional Electricity 65102000 – Multi-utilities 65102020 – Gas Distribution

13. iSTOXX GLOBAL TRANSITIONS INDICES

	65102030 – Water
Infrastructure	All stocks from STOXX Global Broad Infrastructure Index, the STOXX Global Extended Infrastructure 100 Index and the STOXX Global Infrastructure Suppliers 50 Index indices.
	All stocks from the STOXX Global 3000 Index with the following ICB code: 40101015 – Tires 40101020 – Automobiles 40101025 – Auto Parts 50101010 – Construction 50101015 – Engineering and Contracting Services 50101020 – Building, Roofing/Wallboard and Plumbing 50101025 – Building: Climate Control 50101030 – Cement 50101035 – Building Materials: Other 50206010 – Trucking 50206020 – Railroads 50206030 – Marine Transportation 50206040 – Delivery Services 50206060 – Transportation Services

Composition list:

The following Equal Strength Ratios are calculated for each group.

$$\mathrm{ESR_G} = \sqrt{\frac{7}{\mathrm{N_G}}}$$

Where,
G Each of the three Social Evolutions, Resources Scarcity and Infrastructure groups
ESR_G Equal Strength Ratio of group G
N_G Number of stocks from group G in the Selection List.

All stocks in the Selection list are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in EUR) and, within each of the three groups, companies are selected based on their ESR:

$$\text{number of companies to select from group G (Volatility screen)} = \text{round down of } (\mathrm{ESR_G} \times \mathrm{N_G})$$

However, in the case that a company belongs to more than one group, it is sufficient that its volatility ranks in the top ESR_G% of one group in order to be eligible in all of them.

13. iSTOXX GLOBAL TRANSITIONS INDICES

All selected stocks are ranked in descending order in terms of dividend yield and the final Composition list is comprised of the 30 highest ranked stocks, with minimum of 7 stocks from each group. If a group is comprised of less than 7 stocks, all stocks from that group are selected. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as defined in the Selection process).

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

w_i target weight of component i
σ_i maximum between the historical 12-months and 3-months volatility of component i as of review cut-off date, based on prices in EUR
N number of constituents in the final index (30)

Weighting cap factor are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting cap factor$_i$ = (1,000,000,000 x w_i / p_i), rounded to integers

Additionally, components are capped at a maximum weight of 10%.

13.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.
Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: Spun-off stocks are not added permanently to the index.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

14.1. iSTOXX EUROPE ECONOMIC GROWTH SELECT 50

14.1.1. OVERVIEW

The iSTOXX Europe Economic Growth Select 50 Index captures the performance of stocks from the STOXX Europe 600 Index with low volatility, high dividends and high liquidity.

The component selection process first excludes all stocks with 3-month ADTV below EUR 3Mln and highest historical volatility. Among the remaining stocks, the 50 stocks with the highest 12-month historical dividend yields are selected to be included in the index.

The constituents are weighted according to a normalized GDP Score whereby companies with the highest exposure to countries with the highest estimated Economic growth receive the largest weight.

Universe: The index universe is defined by the constituents of the STOXX Europe 600 index as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on their normalized GDP Score.

Base values and dates: 100 on Apr 2, 2007

Index types and currencies: Price, net and gross return in EUR and USD

For a complete list please consult the data vendor code sheet on the website[14]. Customized solutions can be provided upon request.

14.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index.

The Selection list is obtained by selecting from the Universe the stocks that fulfil the following conditions:

1. Availability of both 12-month historical dividend yield and 3-month ADTV in EUR
2. 3-month ADTV in EUR above EUR 3 million
3. Suspension from trading not exceeding 10% of the STOXX calendar trading days:

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

The remaining stocks compose the Eligible Universe.
Composition list:

[14] http://www.STOXX.com/download/indices/vendor_codes.xls

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

The following Equal Strength Ratio is calculated for all stocks in the Eligible Universe:

$$\mathrm{ESR} = \sqrt{\frac{\mathrm{x}}{\mathrm{N}}}$$

where:

N Number of stocks in the Eligible Universe
x Number of stocks in the final index (50)

All stocks in the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in EUR) and a number of companies with lowest volatility is selected based on the ESR:

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (\mathrm{ESR} \times \mathrm{N})$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked 50 stocks are selected for the final index. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the normalized GDP Score.
For the 50 selected companies, a GDP-growth score ("GDP Score") is computed as:

$$\mathrm{GDP\ Score_i} = \sum \mathrm{X_{i,c}} * \mathrm{GDP_c} + \left(1 - \sum \mathrm{X_{i,c}}\right) * \mathrm{GDP_{G7}}$$

Where

i company i
c country c
$X_{i,c}$ percentage of total revenue of company i coming from country c as of end of August. Details about exposure parameter calculation can be found in chapter 17.1.4 of the STOXX index guide[15].
GDP_c 1-year GDP growth estimation of country c for the following year as reported by the IMF in their October World Economic Outlook Databases[16] (set to zero if not reported)
$1-\sum x_{i,c}$ percentage of total revenues of company i that cannot be linked to a particular country due to insufficient reporting on company's level
GDP_{G7} estimated GDP growth of country group G7 "Major advanced economies" for the following year as reported by the IMF in their October World Economic Outlook Databases[3] (set to zero if not reported),used as an estimation of the Global GDP Growth

The GDP Score are then normalized between 1 and 10:

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15 https://www.stoxx.com/documents/stoxxnet/Documents/Indices/Common/Indexguide/stoxx_index_guide.pdf
16 http://www.imf.org/external/ns/cs.aspx?id=28

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

$$\text{Normalized GDP Score}_i = 1 + \frac{(\text{GDP Score}_i - \text{Min}) * 9}{\text{Max} - \text{Min}}$$

i	company i
Min	the minimum GDP Score value among the 50 constituents
Max	the maximum GDP Score value among the 50 constituents

The target weights are then calculated by using the Normalized GDP Scores:

$$w_i = \frac{\text{Normalized GDP Score}_i}{\sum_{j=1}^{50} \text{Normalized GDP Score}_j}$$

The weight cap factors are calculated on the basis of the stocks' closing prices in EUR of the Thursday prior to the second Friday of the review month:

Weighting cap factor = (1,000,000,000 x w_i / closing price_i), rounded to integers. Additionally, components are capped at a maximum weight of 5%.

14.1.3. ONGOING MAINTENANCE

Replacements: Not applicable.
Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index
Mergers and takeovers: Standard STOXX process.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

14.2. iSTOXX GLOBAL ECONOMIC GROWTH SELECT 50

14.2.1. OVERVIEW

The iSTOXX Global Economic Growth Select 50 Index captures the performance of stocks from the STOXX Global 1800 Index with low volatility, high dividends and high liquidity.

The component selection process first filters out all companies that are in contravention of Global Standards Screening (GSS) assessment or are involved in Controversial Weapons activities, as identified by Sustainalytics. Next, all stocks with 3-month ADTV below USD 3Mln and with the highest historical volatility are excluded. Among the remaining stocks, the 50 stocks with the highest 12-month historical dividend yields are selected to be included in the index.

The constituents are weighted according to a normalized GDP Score whereby companies with the highest exposure to countries with the highest estimated Economic growth receive the largest weight.

Universe: The index universe is defined by the constituents of the STOXX Global 1800 index as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on their normalized GDP Score.

Base values and dates: 100 on Apr 2, 2007

Index types and currencies: Price, net and gross return in EUR and USD

For a complete list please consult the data vendor code sheet on the website[17]. Customized solutions can be provided upon request.

14.2.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index.

The Selection list is obtained by selecting from the Universe the stocks that fulfil the following conditions:

1. Companies that are not in contravention of Global Standards Screening (GSS) and are not involved in Controversial Weapons activities, as identified by Sustainalytics
2. Availability of both 12-month historical dividend yield and 3-month ADTV in USD
3. 3-month ADTV in USD above USD 3 million

[17] http://www.STOXX.com/download/indices/vendor_codes.xls

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

4. Suspension from trading not exceeding 10% of the STOXX calendar trading days:

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

The remaining stocks compose the Eligible Universe.

Composition list:
The following Equal Strength Ratio is calculated for all stocks in the Eligible Universe:

$$\text{ESR} = \sqrt{\frac{\text{x}}{\text{N}}}$$

where:
N Number of stocks in the Eligible Universe
x Number of stocks in the final index (50)

All stocks in the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in USD) and a number of companies with lowest volatility is selected based on the ESR:

$$\text{number of companies to select (Volatility screen)} = \text{round down of (ESR} \times \text{N)}$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked 50 stocks are selected for the final index. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the normalized GDP Score. The GDP Score is re-calculated on the review data in December.

For the 50 selected companies, a GDP-growth score ("GDP Score") is computed as:

$$\text{GDP Score}_{\text{i}} = \sum \text{X}_{\text{i,c}} * \text{GDP}_{\text{c}} + \left(1 - \sum \text{X}_{\text{i,c}}\right) * \text{GDP}_{\text{G7}}$$

Where
i company i
c country c
$X_{i,c}$ percentage of total revenue of company i coming from country c as of end of August. Details about exposure parameter calculation can be found in chapter 17.1.4 of the STOXX index guide[18].
GDP_c 1-year GDP growth estimation of country c for the following year as reported by the IMF in their October World Economic Outlook Databases[19] (set to zero if not reported)
$1-\sum x_{i,c}$ percentage of total revenues of company i that cannot be linked to a particular country due to insufficient reporting on company's level

[18] https://www.stoxx.com/documents/stoxxnet/Documents/Indices/Common/Indexguide/stoxx_index_guide.pdf
[19] http://www.imf.org/external/ns/cs.aspx?id=28

14. iSTOXX ECONOMIC GROWTH SELECT INDICES

GDP_{G7} estimated GDP growth of country group G7 "Major advanced economies" for the following year as reported by the IMF in their October World Economic Outlook Databases[3] (set to zero if not reported),used as an estimation of the Global GDP Growth

The GDP Score are then normalized between 1 and 10:

$$\text{Normalized GDP Score}_i = 1 + \frac{(\text{GDP Score}_i - \text{Min}) * 9}{\text{Max} - \text{Min}}$$

i company i
Min the minimum GDP Score value among the 50 constituents
Max the maximum GDP Score value among the 50 constituents

The target weights are then calculated by using the Normalized GDP Scores:

$$w_i = \frac{\text{Normalized GDP Score}_i}{\sum_{j=1}^{50} \text{Normalized GDP Score}_j}$$

The weight cap factors are calculated on the basis of the stocks' closing prices in EUR of the Thursday prior to the second Friday of the review month:

Weighting cap factor = (1,000,000,000 x wi / closing pricei), rounded to integers. Additionally, the stocks' weights are first subjected to a country cap of the maximum of (10%, 2 x country weighting in the Universe) and then an individual cap at a maximum weight of 5%. In the case where after applying the country cap and the individual cap, the sum of the weights does not equal to 100%, these weights will be rescaled proportionally and the country cap relaxed to bring the sum of the weights to 100% while keeping the individual cap at 5%.

14.2.3. ONGOING MAINTENANCE

Replacements: Not applicable.
Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index
Mergers and takeovers: Standard STOXX process.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

15. iSTOXX HIGH DIVIDEND INDICES

15.1. EURO iSTOXX EX FINANCIALS HIGH DIVIDEND 50 INDEX

15.1.1. OVERVIEW

The EURO iSTOXX ex Financials High Dividend 50 Index aims to select from the EURO STOXX ex Financials universe (Following the introduction of the new ICB classification that separates Real Estate from Financials Industry, and in order to retain the representation of the originally intended economic reality, effective with September 2020 Review, an additional filter excluding ICB Industry Real Estate (ICB code: 35) will be applied), 50 stocks with high dividend yields, while applying a maximum weight cap of 10% per company. Companies are weighted by dividend yield.

Universe: The index universe is defined by the parent index EURO STOXX ex Financials index. Following the introduction of the new ICB classification that separates Real Estate from Financials Industry, and in order to retain the representation of the originally intended economic reality, effective with September 2020 Review, an additional filter excluding ICB Industry Real Estate (ICB code: 35) will be applied.

Weighting scheme: The constituents from the indices are weighted according to their 12 months historical gross dividend yield with a 10% constituent cap

Base values and dates: 100 as of Mar 22, 2004

Index types and currencies: Price, net and gross return in EUR and USD. Price versions in Realtime, others end of day.

15.1.2. INDEX REVIEW

The review cut-off date is the last trading day of the month preceding the review of the index.

Selection list: All companies of the EURO STOXX ex Financials Index (Following the introduction of the new ICB classification that separates Real Estate from Financials Industry, and in order to retain the representation of the originally intended economic reality, effective with September 2020 Review, an additional filter excluding ICB Industry Real Estate (ICB code: 35) will be applied) are screened for their

- 12 Months historical gross dividend yield
- Free-float market capitalization in EUR
- 3 Months Average Daily Traded Volume in EUR (ADTV)

If a value is not available for a security, the security is removed from the base universe. All remaining securities whose free-float market capitalization or 3 Month ADTV is not ranked among the top 75% are excluded from the universe of selection. All eligible companies are ranked according to their 12 months historical gross dividend yield in descending order.

Component selection: The highest ranked 50 companies by gross dividend yield are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors:

Weight determination:

$$w_i = \frac{\frac{D_i}{p_i}}{\sum_{j=1}^{N} \frac{D_j}{p_j}}$$

w_i = weight
D_i = gross dividend of company i
p_i = closing price of company i
D_j = gross dividend of company j
p_j = closing price of company j
N = number of index components

$\text{Weighting factor} = \frac{\text{weight in percentage} \times 1000000000}{\text{price in EUR}}$, rounded to integers.

Components are capped at a maximum weight of 10% per security.

The weighting factors are published on the second Friday in March, June, September and December, one week prior to quarterly review implementation using Thursday's closing prices.

15.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, EURO STOXX ex Financials, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

15. iSTOXX HIGH DIVIDEND INDICES

15.2. EURO iSTOXX HIGH DIVIDEND LOW VOLATILITY 50 INDEX

15.2.1. OVERVIEW

The EURO iSTOXX High Dividend Low Volatility 50 Index aims to select from the EURO STOXX universe, 50 stocks with high dividend yields and low volatility, while applying a maximum cap of 10 constituents per country and a maximum weight cap of 3% per security.

Universe: The index universe is defined by the parent index EURO STOXX index

Weighting scheme: Price-weighted with a weighting factor according to their 12 months historical gross dividend yield

Base values and dates: 100 as of Mar 22, 2004

For a complete list please consult the data vendor code sheet on the website[20]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR and USD. Realtime for the price versions, end of day for the others.

15.2.2. INDEX REVIEW

The review cut-off date is the last trading day of the month preceding the review of the index.

Selection list:

- All companies of the EURO STOXX index are screened for their 12 months historical volatility (in EUR) and 12 months historical gross dividend yield and companies are removed from the list if one of the two values is not available
- The remaining companies are ranked according to their 12 months historical gross dividend yield in descending order
- The highest ranked 75 stocks are eligible for the further selection process under the constraint that a maximum of 10 companies per country can be chosen
- All eligible companies are ranked according to their 12 months historical volatility (in EUR) in ascending order

Component selection: The highest ranked 50 securities are selected

Review frequency: The index is reviewed on a quarterly basis in March, June, September and December

Weighting cap factors: Components are capped at 3%.

[20] http://www.STOXX.com/download/indices/vendor_codes.xls

Weight determination:

$$w_i = \frac{\frac{D_i}{p_i}}{\sum_{j=1}^{N} \frac{D_j}{p_j}}$$

w_i = weight
D_i = gross dividend of company i
p_i = closing price of company i
D_j = gross dividend of company j
p_j = closing price of company j
N = number of index components

$\text{Weighting factor} = \frac{\text{weight in percentage} \times 1000000000}{\text{price in EUR}}$, rounded to integers.

The weighting factors are published on the second Friday in March, June, September and December, one week prior to quarterly review implementation using Thursday's closing prices.

15.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. If a company is deleted from the EURO STOXX but remains in the Global TMI, this stock will not be excluded from this index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

16. iSTOXX FACTOR INDICES

16.1. iSTOXX EUROPE/USA SINGLE & MULTI FACTOR

16.1.1. OVERVIEW

The iSTOXX Factor indices aim to extract factor risk premia on equities while controlling risks and keeping focus on tradability. These indices differ from each other by the factor or risk premia they are exploiting. Index families are provided for Europe and USA, and they contain indices based on the following single factors: carry, low risk, momentum, quality, size and value. The iSTOXX Europe Multi Factor Index and the iSTOXX USA Multi Factor Index gather all stocks with a high overall composition tilt to all the single factors. The iSTOXX Europe Multi Factor XC Index gathers all stocks with a high overall composition tilt to all the single factors except for the carry factor.

Index name	Symbol	Bloomberg ticker	Reuters RIC
iSTOXX Europe Carry Factor EUR (Price)	ISECFEP		.ISECFEP
iSTOXX Europe Carry Factor EUR (Net Return)	ISECFER	ISECFER Index	.ISECFER
iSTOXX Europe Carry Factor EUR (Gross Return)	ISECFEGR		.ISECFEGR
iSTOXX Europe Low Risk Factor EUR (Price)	ISERFEP		.ISERFEP
iSTOXX Europe Low Risk Factor EUR (Net Return)	ISERRER	ISERRER Index	.ISERRER
iSTOXX Europe Low Risk Factor EUR (Gross Return)	ISERFEGR		.ISERFEGR
iSTOXX Europe Momentum Factor EUR (Price)	ISEMFEP		.ISEMFEP
iSTOXX Europe Momentum Factor EUR (Net Return)	ISEMFER	ISEMFER Index	.ISEMFER
iSTOXX Europe Momentum Factor EUR (Gross Return)	ISEMFEGR		.ISEMFEGR
iSTOXX Europe Quality Factor EUR (Price)	ISEQFEP		.ISEQFEP
iSTOXX Europe Quality Factor EUR (Net Return)	ISEQFER	ISEQFER Index	.ISEQFER
iSTOXX Europe Quality Factor EUR (Gross Return)	ISEQFEGR		.ISEQFEGR
iSTOXX Europe Size Factor EUR (Price)	ISEZFEP		.ISEZFEP
iSTOXX Europe Size Factor EUR (Net Return)	ISEZFER	ISEZFER Index	.ISEZFER
iSTOXX Europe Size Factor EUR (Gross Return)	ISEZFEGR		.ISEZFEGR
iSTOXX Europe Value Factor EUR (Price)	ISEVFEP		.ISEVFEP
iSTOXX Europe Value Factor EUR (Net Return)	ISEVFER	ISEVFER Index	.ISEVFER
iSTOXX Europe Value Factor EUR (Gross Return)	ISEVFEGR		.ISEVFEGR

16. iSTOXX FACTOR INDICES

iSTOXX Europe Multi-Factor EUR (Price)	ISEXFEP		.ISEXFEP
iSTOXX Europe Multi-Factor EUR (Net Return)	ISEXFER	ISEXFER Index	.ISEXFER
iSTOXX Europe Multi-Factor EUR (Gross Return)	ISEXFEGR		.ISEXFEGR
iSTOXX Europe Multi-Factor XC EUR (Price)	ISEXFCP		.ISEXFCP
iSTOXX Europe Multi-Factor XC EUR (Net Return)	ISEXFCR	ISEXFCR Index	.ISEXFCR
iSTOXX Europe Multi-Factor XC EUR (Gross Return)	ISEXFCGR		.ISEXFCGR
iSTOXX USA Carry Factor EUR (Price)	ISUCFUP		.ISUCFUP
iSTOXX USA Carry Factor EUR (Net Return)	ISUCFUR	ISUCFUR Index	.ISUCFUR
iSTOXX USA Carry Factor EUR (Gross Return)	ISUCFUGR		.ISUCFUGR
iSTOXX USA Low Risk Factor EUR (Price)	ISURFUP		.ISURFUP
iSTOXX USA Low Risk Factor EUR (Net Return)	ISURFUR	ISURFUR Index	.ISURFUR
iSTOXX USA Low Risk Factor EUR (Gross Return)	ISURFUGR		.ISURFUGR
iSTOXX USA Momentum Factor EUR (Price)	ISUMFUP		.ISUMFUP
iSTOXX USA Momentum Factor EUR (Net Return)	ISUMFUR	ISUMFUR Index	.ISUMFUR
iSTOXX USA Momentum Factor EUR (Gross Return)	ISUMFUGR		.ISUMFUGR
iSTOXX USA Quality Factor EUR (Price)	ISUQFUP		.ISUQFUP
iSTOXX USA Quality Factor EUR (Net Return)	ISUQFUR	ISUQFUR Index	.ISUQFUR
iSTOXX USA Quality Factor EUR (Gross Return)	ISUQFUGR		.ISUQFUGR
iSTOXX USA Size Factor EUR (Price)	ISUZFUP		.ISUZFUP
iSTOXX USA Size Factor EUR (Net Return)	ISUZFUR	ISUZFUR Index	.ISUZFUR
iSTOXX USA Size Factor EUR (Gross Return)	ISUZFUGR		.ISUZFUGR
iSTOXX USA Value Factor EUR (Price)	ISUVFUP		.ISUVFUP
iSTOXX USA Value Factor EUR (Net Return)	ISUVFUR	ISUVFUR Index	.ISUVFUR
iSTOXX USA Value Factor EUR (Gross Return)	ISUVFUGR		.ISUVFUGR
iSTOXX USA Multi-Factor EUR (Price)	ISUXFUP		.ISUXFUP

16. iSTOXX FACTOR INDICES

iSTOXX USA Multi-Factor EUR (Net Return)	ISUXFUR	ISUXFUR Index	.ISUXFUR
iSTOXX USA Multi-Factor EUR (Gross Return)	ISUXFUGR		.ISUXFUGR

Universe: The index universe for the iSTOXX Europe Factor indices is defined by the STOXX Europe Total Market Index as of two days before the last Friday of each month, while the corresponding universe for the iSTOXX USA Factor indices is the STOXX USA 900 Index.

Weighting scheme: The final index weights are the result of an optimization process. The optimizer task is to create an index portfolio with maximum possible factor exposure that satisfies specific constraints with respect to systematic risk beyond the factor tilt. If no solution is possible, constraints are loosened following a heuristic process until an index portfolio is found.

Individual capping: Constraints are applied such that the weight of each component cannot exceed 8% and that the aggregated weight of all components whose individual weight is at least 4.5% cannot exceed 35%. Those constraints are not loosened during the optimization process.

Base values and dates: 100 as of April 1, 2016

For a complete list, please consult the data vendor code sheet on the website[21]. Customized solutions can be provided upon request.

Index types and currencies: Price, net return and gross return in EUR for the iSTOXX Europe Factor indices, USA for the iSTOXX USA Factor Indices.

16.1.2. INDEX REVIEW

Selection list: Components are selected from the Universe following an optimization based factor exposure and a set of constrains.

16.1.3. COMBINATION AND NORMALIZATION

Each factor, as input for the index optimization, consists of several base or subfactors. Those subfactors consist of different ratios calculated from base data (balance sheet, income statement, price or estimates for instance) or from other subfactors. Those are grouped by topic or style and each group combined creates the final factor. The multi-factor derives its final factor value from the composite of all single factors of the index family.

The combinations of factors are done as following:

- normalization of subfactors on supersector level (ICB classification),
- calculation of the final factor as the equal weighted composite of all normalized subfactors in the factor group.

[21] http://www.STOXX.com/download/indices/vendor_codes.xls

In general, calculations and rankings are neutralized on a supersector level. To combine subfactors to a final factor, a normalization process on subfactors is executed before adding up the values to the final factor or factor score. This normalization is the mapping of each assets relative factor rank to the corresponding normal distribution quantile (Gaussing).

16.1.4. FACTOR CALCULATION

The factor calculation happens one trading day before the review with data from one trading day before the review.

16.1.4.1. CARRY

The carry factor is a composite of 4 subfactors:

1- $\text{Price to Dividend} = \frac{\text{Price}}{\text{Dividend per share over the last 12 months}}$

2- $\text{Internal Growth} = \text{Return on equity} \times \text{Payout ratio} = \frac{\text{Earnings}}{\text{Book value}} \times \left(1 - \frac{\text{Dividend per share}}{\text{Earnings per Share over the last 12m}}\right)$

3- $\text{Earnings Dispersion} = \text{Standard deviation of Earnings; timeweighted forward 12 month}$

4- $\text{Shares out Reduction} = \frac{\text{Historical common shares decrease over last 24 months}}{\text{Common shares out}}$

16.1.4.2. LOW RISK

The Low Risk factor is a composite of 3 subfactors:

1- $\text{3M Volatility} = \text{Standard deviation of returns over 3 months}$
2- $\text{12M Volatility} = \text{Standard deviation of returns over 12 months}$
3- $\text{12M Semi Volatility} = \text{Semi deviation of returns over 12 months}$

16.1.4.3. MOMENTUM

The Momentum factor is a composite of 2 subfactors:

1- 1 month Reversal $= -T\ Value$ of return index over 1 month
2- 12 month Momentum $= T\ Value$ of return index over 12 months

16.1.4.4. QUALITY

The Quality factor is a composite of 5 subfactors:

1- $\text{Operating Income to Common Equity} = \frac{\text{Operating income}}{\text{Common equity}}$; which becomes $\frac{\text{Operating income}}{\text{Total assets}}$ if Common Equity ≤ 0

2- $\text{Cash to current liabilities} = -1 \times \frac{\text{Cash and equivalent}}{\text{Current liabilities}}$

3- $\text{Net external financing 12 month} = -1 \times \frac{12\text{M}\Delta\text{ShOut} \times 12\text{MAveragePrice} + 12\text{M}\Delta\text{LongDebt} + 12\text{M}\Delta\text{ShortDebt} + 12\text{M}\Delta\text{PrefStocks}}{12\text{MAverageTotalAssets}}$

Where,

$12\text{M}\Delta\text{ShOut} = \text{Shares outstanding}_{t_0} - \text{Shares outstanding}_{t_0-12\text{month}}$
$12\text{M}\Delta\text{LongDebt} = \text{Long debt}_{t_0} - \text{Long debt}_{t_0-12\text{month}}$
$12\text{M}\Delta\text{ShortDebt} = \text{Short debt}_{t_0} - \text{Short debt}_{t_0-12\text{month}}$
$12\text{M}\Delta\text{PrefStocks} = \text{Preferred stocks}_{t_0} - \text{Preferred stocks}_{t_0-12\text{month}}$
$12\text{MAveragePrice} = \text{Average price in local currency with monthly observations}$
$12\text{MAverageTotalAssets}$
$= \text{Average Total Assets in local currency with quarterly observations}$

4- $\text{Coverage} = \text{Composite}\left(\frac{\text{EBIT}}{\text{Interest payments}}; \frac{\text{EBIT}}{\text{Total debt}}; \frac{\text{CFO}}{\text{Interest payments}}; \frac{\text{CFO}}{\text{Total debt}}\right)$

5- $\text{Accruals Quality} = \frac{12\text{M}\Delta\text{NetOperatingAssets}}{\text{Total Assets}}$

Where,

$12\text{M}\Delta\text{NetOperatingAssets} = \text{Net operating assets}_{t_0} - \text{Net operating assets}_{t_0-12\text{month}}$

Where,

$\text{Net Operating Assets} = \text{Total assets} - \text{Cash} - \text{Total liabitilities} + \text{Short debt} + \text{Long debt}$

16.1.4.5. SIZE

The Size factor is a composite of 2 subfactors:

1- Inverse MCAP $= -1 *$ Market capitalization
2- Inverse enterprise value $= -1 *$
(Market capitalization at end of fiscal year + Preferred stocks + Minority interest + Total debt - Cash)

16.1.4.6. VALUE

The Value factor is a composite of 2 subfactors:

1- Forward 12M Earnings Yield; replaced with $\frac{\text{Cash flows from operations}}{\text{Total sssets}}$ if negative
2- Cash Flow Yield; replaced with $\frac{\text{Cash flows from operations}}{\text{Total assets}}$ if negative

16.1.5. OPTIMIZATION

Benchmark: The benchmark index for the optimization is defined as the STOXX Europe 600 Index as of two days before the last Friday of each month which is the cut-off date, in the case of the iSTOXX Europe Factor indices. The corresponding benchmark for the iSTOXX USA Factor indices is the STOXX USA 500 Index.

The optimizer uses the following inputs:

- vector with tilt values for every single stock,
- most current SunGard APT Risk Engine Risk Model,
- weight of every single stock in the benchmark index (if the stock belongs to the STOXX Europe Total Market Index but not to the STOXX Europe 600 Index, it gets a weight of 0%; similar in the case of iSTOXX USA Factor indices).

The actual weighting is calculated under the main target to maximize the index factor exposure while still satisfying constraints.

- maximum tracking error to the benchmark index (target: 3%),
- maximum systematic risk contribution to tracking error (target: 10% of 3% equals 0.3% tracking error points),
- target beta of 1 to the benchmark index with allowed maximum deviation of 0.025 (target: 0.975 < beta < 1.025),
- target number of components between 50 and 120,
- maximum absolute deviation of industry weights relative to those of the benchmark index (target: 1.5 percentage points),
- maximum absolute deviation of component weights relative to those of the benchmark index (target: 1.5 percentage points),
- liquidity constraint: 100 mn EUR times weight of single component needs to be at most 15% of the 20-day average daily traded value
- maximum turnover (target: 25% one way),
- Component capping: The weight of no single component can exceed 8%. Further, the aggregate of all components with a weight of more than 4.5% cannot exceed 35%.

If no solution under the above constraints is found, a heuristic process is run which successively relaxes the constraints until a solution is found.
The first four relaxations hereby loosen the systematic risk contribution constraint (12%, 14.4%, 17.28%, 20%). Next, the target beta and industry allocation constraints are relaxed to penalty constraints which allow minor violations. The sixth relaxation increases the maximum tracking error to 3.3%. Relaxations seven to ten loosen the turnover constraint (35%, 45%, 55%, 65%). If still no solution is found the original beta and industry allocation constraints are removed. Relaxations twelve to fifteen loosen the turnover constraint further (75%, 85%, 95%, 100%).

Constraints regarding number of components, liquidity, single stock weight deviation, and component capping are never relaxed.
Valid from 21.12.2018: A second wider beta constraint is added that is not relaxable (target: 0.95 < beta < 1.05). If after all relaxations no solution is found the review is omitted in this month.

Composition list: Variable number of constituents depending on the optimization process.

Review frequency: The reviews are conducted on a monthly basis. The review cut-off date for the underlying data is two days before the last Friday of the month. The new composition is effective the next trading day after the first Friday of the month.

Weighting cap factors: Weighting factor = weight * (1,000,000,000 / closing price of the stock), rounded to integers and calculated based on closing prices three days prior to the implementation date.

Derived indices: none

16.1.6. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is not added permanently to the index

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

16.2. iSTOXX EUROPE SINGLE & MULTI FACTOR MARKET NEUTRAL

16.2.1. OVERVIEW

The iSTOXX Europe Single Factor Market Neutral indices replicate a long position into one iSTOXX Europe Single Factor index and a short position into the STOXX Europe 600 Futures Roll index.
Additionally, the iSTOXX Europe Multi-Factor Market Neutral index replicates a long position into the iSTOXX Europe Multi-Factor Index and a short position into the STOXX Europe 600 Futures Roll index.

Index name	Symbol	Bloomberg ticker	Reuters RIC

16. iSTOXX FACTOR INDICES

iSTOXX Europe Carry Factor Market Neutral EUR (Total Return - NR)	ISECMETN		.ISECMETN
iSTOXX Europe Carry Factor Market Neutral EUR (Excess Return - NR)	ISECMEEN	ISECMEEN Index	.ISECMEEN
iSTOXX Europe Low Risk Factor Market Neutral EUR (Total Return - NR)	ISERMETN		.ISERMETN
iSTOXX Europe Low Risk Factor Market Neutral EUR (Excess Return - NR)	ISERMEEN	ISERMEEN Index	.ISERMEEN
iSTOXX Europe Momentum Factor Market Neutral EUR (Total Return - NR)	ISEMMETN		.ISEMMETN
iSTOXX Europe Momentum Factor Market Neutral EUR (Excess Return - NR)	ISEMMEEN	ISEMMEEN Index	.ISEMMEEN
iSTOXX Europe Quality Factor Market Neutral EUR (Total Return - NR)	ISEQMETN		.ISEQMETN
iSTOXX Europe Quality Factor Market Neutral EUR (Excess Return - NR)	ISEQMEEN	ISEQMEEN Index	.ISEQMEEN
iSTOXX Europe Size Factor Market Neutral EUR (Total Return - NR)	ISEZMETN		.ISEZMETN
iSTOXX Europe Size Factor Market Neutral EUR (Excess Return - NR)	ISEZMEEN	ISEZMEEN Index	.ISEZMEEN
iSTOXX Europe Value Factor Market Neutral EUR (Total Return - NR)	ISEVMETN		.ISEVMETN
iSTOXX Europe Value Factor Market Neutral EUR (Excess Return - NR)	ISEVMEEN	ISEVMEEN Index	.ISEVMEEN
iSTOXX Europe Multi-Factor Market Neutral EUR (Total Return - NR)	ISEXMETN	ISEXMETN Index	.ISEXMETN
iSTOXX Europe Multi-Factor Market Neutral EUR (Excess Return - NR)	ISEXMEEN	ISEXMEEN Index	.ISEXMEEN

Index types and currencies: Total Return Net Return and Excess Return Net Return in EUR

Base values and dates: 100 on Mar 1, 2016

16.2.2. CALCULATIONS

The indices formula is:

$$\mathrm{IV_t} = \mathrm{IV_{reb}} \times \left[\frac{\mathrm{FI_t}}{\mathrm{FI_{reb}}} - \beta \times \left(\frac{\mathrm{RF_t}}{\mathrm{RF_{reb}}} - 1\right)\right]$$

Where,

IV Market Neutral Index value

FI Single/Multi Factor Equity index

16. iSTOXX FACTOR INDICES

RF	Rolling Future index (the iSTOXX Europe Market Neutral Net Return Total Return indices use the STOXX Europe 600 Futures Roll Excess Return as RF while the iSTOXX Europe Market Neutral Net Return Excess Return indices use the STOXX Europe 600 Futures Roll Total Return as RF)
β	Beta of FI to the STOXX Europe 600 (180 weekly returns)
Reb	Rebalancing day (index close as of Friday)

16.2.3. REBALANCING

The rebalancing happens once a week. The betas are calculated on Thursday and effective on Monday morning.

17. EURO iSTOXX 60 EQUAL WEIGHT INDEX AND EURO iSTOXX 70 EQUAL WEIGHT INDEX

17.1. EURO iSTOXX 60 EQUAL WEIGHT INDEX AND EURO iSTOXX 70 EQUAL WEIGHT INDEX

17.1.1. OVERVIEW

The constituents for the EURO iSTOXX 60 Equal Weight and EURO iSTOXX 70 Equal Weight indices are selected from the EURO STOXX universe. The 60, and 70, largest constituents in terms of free-float market capitalization are selected respectively. The constituents of the indices are equal weighted.

Universe: All securities from the EURO STOXX index.

Weighting scheme: Equal Weighted

Base value and date: 100 on Dec 19, 2005

Index types and currencies: Price, net and gross return in EUR and USD.

17.1.2. INDEX REVIEW

Selection list: All securities from the EURO STOXX index.

Composition list: The 60, and 70, largest constituents in terms of free-float market capitalization are selected respectively. The constituents of the indices are equal weighted. The component selection list will be produced on a quarterly basis.

Weighting cap factors: No capping is applied.

Review frequency: The components are reviewed quarterly. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

17.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

18. EURO iSTOXX 50 FX NEUTRAL INDEX

18.1. EURO iSTOXX 50 FX NEUTRAL INDEX

18.1.1. OVERVIEW

The EURO iSTOXX FX Neutral index aims to neutralize the impact of daily currency returns while replicating the returns of the underlying EURO STOXX 50 in different currencies.

Index types and currencies: Price, Net and Gross Return in GBP, USD and SEK.

Base value and date: 1000 on Jan 4, 2016

18.1.2. CALCULATION

Index formula:

$$I_t = I_{t-1} \cdot \left[\frac{UI_t}{UI_{t-1}} \cdot \frac{FX_t}{FX_{t-1}} - \left(\frac{FX_t}{FX_{t-1}} - 1\right)\right]$$

Where:

I_t EURO iSTOXX 50 FX Neutral index on day t

UI_t Underlying index on day t (SX5E, SX5T, SX5GT)

FX_t FX rate on day t to convert one unit of currency of index UI into currency of index I. Standard Reuters rates used for intraday calculations and WM fixing for end-of-day calculations.

19. EURO iSTOXX 50 FUTURES LEVERAGED INDEX

19.1. EURO iSTOXX 50 FUTURES LEVERAGED INDEX

19.1.1. OVERVIEW

The EURO iSTOXX 50 Futures Leveraged Index is tracking the performance of a 100% position in the EURO STOXX 50® Index combined with 50% exposure in the EURO STOXX 50® Traded Futures Roll Index.

Rebalancing: The index is rebalanced on a quarterly basis after the close of the 3rd Friday of March, June, September and December.

Index types and currencies: Total Return – Price, Total Return - Net Return, Total Return – Gross Return, Excess Return – Price, Excess Return – Net Return and Excess Return – Gross Return in EUR.

Dissemination calendar: STOXX Eurex Calendar

Base values and dates: 1000 on Feb 28, 2003

19.1.2. CALCULATION

The EURO iSTOXX 50 Futures Leveraged Index is calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{reb}} \times \left[1 + \mathrm{w_1} * \left(\frac{\mathrm{UI_t^1}}{\mathrm{UI_{reb}^1}} - 1\right) + \mathrm{w_2} * \left(\frac{\mathrm{UI_t^2}}{\mathrm{UI_{reb}^2}} - 1\right)\right]$$

Where,

IV	EURO iSTOXX 50 Futures Leveraged Index
UI^1	EURO STOXX 50® Index (Price, Net or Gross Return)
UI^2	EURO STOXX 50® Traded Futures Roll Index (Total or Excess Return)
w_1	100%, the exposure to the EURO STOXX 50® Index
w_2	50%, the exposure to the EURO STOXX 50® Traded Futures Roll Index
reb	Rebalancing day (index close value as of 3rd Friday of rebalancing month)

20. iSTOXX GLOBAL WOMEN LEADERSHIP SELECT 30 INDEX

20.1. iSTOXX GLOBAL WOMEN LEADERSHIP SELECT 30 INDEX

20.1.1. OVERVIEW

The iSTOXX Global Women Leadership Select 30 Index aims to select, among the STOXX Global 1800, 30 constituents that display a relatively high proportion of women at board level, in addition to high dividend and low volatility. The components are weighted according to the inverse of volatility.

Universe:
The index universe is defined by the STOXX Global 1800 Index

The universe is as observed on the review effective date, i.e. future composition.

Weighting scheme: The index components are weighted according to the inverse of their volatility.

Base values and dates: The following base values and dates apply: 100 on Mar 22, 2004

For a complete list please consult the data vendor code sheet on the website[22]. Customized solutions can be provided upon request.

Index types and currencies:
Price, net return and gross return in EUR and USD.

20.1.2. INDEX REVIEW

Selection list:
All stocks in the base universe are first screened for the following indicators:

i) Women Leadership score as determined by the proportion of women on the management board of the company
ii) 12-month historical dividend yield (DY)
iii) 3-month and 12-month historical volatility in EUR

All values above are observed as of the cut-off date.

If both 3-month and 12-month historical volatility of a stock has missing information, then the company is removed from the base universe. If the Women Leadership score or the DY of a stock has missing information, then zero is substituted for that indicator.

Composition list:
All eligible stocks are first sorted in descending order based on the Women Leadership score, and the top 50% (highest Women Leadership score) stocks are selected. In case two companies for a

[22] http://www.STOXX.com/download/indices/vendor_codes.xls

given cut-off date have identical Women Leadership scores, priority goes to the stock with the highest dividend yield.

Next, stocks are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility) and the top 300 (lowest volatility) stocks are selected for the next step of the selection process.

The final index composition is obtained by sorting the remaining stocks in descending order in terms of 12-month historical dividend yield and selecting the top 30 (highest dividend yield) stocks.

Review frequency:
The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting cap factors:
All components in the final index composition are subject to a weighting factor based on the inverse of their historical volatility on a quarterly basis as follows:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i weight of component i
σ_i Maximum between the 3-month and 12-month historical volatility of component i

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR) and rounded to the nearest integer value.

Components are capped at a maximum weight of 10%.

20.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions:
All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

21. EURO iSTOXX BANKS CAP 5% INDEX

21.1. EURO iSTOXX BANKS CAP 5% INDEX

21.1.1. OVERVIEW

The EURO iSTOXX Banks Cap 5% index replicates the returns of a more strictly capped version of the EURO STOXX Banks index. Components are capped to a maximum of 5%.

Universe: EURO STOXX Banks.

Weighting scheme: The index is weighted according to free-float market capitalization with a capping at 5%.

Base values and dates: 100 on Jan 2, 2001

Index types and currencies: Price, net return, gross return in EUR and USD.

21.1.2. INDEX REVIEW

Composition list: The components of the parent index, EURO STOXX Banks, build up the composition list.

Review frequency: The index is reviewed quarterly in line with its parent index.

Weighting cap factors: Components are capped quarterly at a maximum weight of 5%. The weighting cap factors are published on the second Friday of the quarter, one week prior to quarterly review implementation, and calculated using Thursday's closing prices.

21.1.3. ONGOING MAINTENANCE

Replacements: All changes affecting the EURO STOXX Banks also apply for the EURO iSTOXX Banks Cap 5%.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs, mergers and takeovers: All changes affecting the EURO STOXX Banks also apply for EURO iSTOXX Banks Cap 5%.

22. iSTOXX BöRSEN-ZEITUNG GLOBAL 600

22.1. iSTOXX BöRSEN-ZEITUNG GLOBAL 600 INDEX

22.1.1. OVERVIEW

The iSTOXX Börsen-Zeitung Global 600 Index aims to select the 200 largest companies from the three regions North America, Asia Pacific and Europe. The largest 200 components from each region are aggregated, so that each region contributes an equal number of companies. The components are weighted according to free-float market capitalization.

Universe: The index universe is defined by the STOXX Global 1800 Index.

Weighting scheme: Free Float Market Cap weighted without capping.

Base values and dates: 100 on Sep 17, 2010

For a complete list please consult the data vendor code sheet on the website[23].

Index types and currencies: Price, net return and gross return in EUR.

22.1.2. INDEX REVIEW

The largest components of the three regions are derived from their respective STOXX <Region> Benchmark index. E.g. the STOXX Europe 600 serves as basis for the STOXX Europe Large 200 Index.

For the iSTOXX Börsen-Zeitung Global 600 Index the three "<Regional> Large 200" indices are aggregated (North America, Asia/Pacific, Europe).

Selection list: After the review of the STOXX regional Benchmark Index has been conducted according to chapters 7.1 and 7.2 in the STOXX Index Methodology Guide[24], all components are ranked by the free-float market capitalization to produce the review selection list for the "<Regional> Large 200" indices.

Composition list: **Large-Size indices (28 ⅓ % - 38 ⅓ % buffer rule)**
Target coverage: Largest ⅓ (33 ⅓%) of the companies from the relevant fixed component index:

1. The largest 28 ⅓% stocks on the selection list are selected.
2. The remaining 5% stocks are selected from the largest remaining current components of the ac-cording fixed component index, ranked between 28⅓% and 38⅓%.
3. If the number of stocks selected is still below 33⅓%, the largest remaining stocks are selected until there are sufficient stocks in the index.

[23]http://www.stoxx.com/download/indices/vendor_codes.xls
[24]https://www.stoxx.com/documents/stoxxnet/Documents/Indices/Common/Indexguide/stoxx_index_guide.pdf

22. iSTOXX BöRSEN-ZEITUNG GLOBAL 600

Size /Buffer	STOXX Europe Large 200	STOXX North America Large 200	STOXX Asia/Pacific Large 200
Target coverage per Size Index	200	200	200
Large (upper buffer)	170	170	170
Large (lower buffer)	230	230	230

Review frequency: The indices are reviewed on a quarterly basis together with the fixed component benchmark indices.

Weighting cap factors: No capping applicable.

22.1.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components, a deleted stock is replaced with the highest-ranked non-component on the selection list. The selection list is updated on a monthly basis according to the review component selection process. During review implementation month the process laid out in section 3.4. of the STOXX Methodology Guide will be applied.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the parent index also apply for the size indices.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

23. iSTOXX INFRASTRUCTURE TRUE EXPOSURE USA 75% DW INDEX

23.1. ISTOXX INFRASTRUCTURE TRUE EXPOSURE USA 75% DW INDEX

23.1.1. OVERVIEW

The iSTOXX Infrastructure True Exposure USA 75% DW Index aims at selecting liquid US stocks with high revenue exposure in the USA, from a pool of infrastructure stocks defined as a blend of three STOXX infrastructure indices: the STOXX Global Broad Infrastructure, the STOXX Global Extended Infrastructure 100 and the STOXX Global Infrastructure Suppliers 50 indices. The components are weighted according to their 12-month historical dividend yield.

Universe: The index universe is defined by the US stocks from the three following indices: STOXX Global Broad Infrastructure, the STOXX Global Extended Infrastructure 100 and the STOXX Global Infrastructure Suppliers 50 indices.

Weighting scheme: The indices are price-weighted with a weighting factor based on the historical 12-month dividend yield.

Base values and dates: 100 on Sep 24, 2007

For a complete list please consult the data vendor code sheet on the website[25]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR and USD.

23.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index.

The stocks in the universe that fulfil the following conditions constitute the Selection List:

1. Availability of:
    a. 12-month historical dividend yield
    b. 3-month ADTV in USD
    c. True revenue exposure information
2. 3-month ADTV above USD 10 million
3. True revenue exposure to the USA above 75% for the corresponding year[26]
4. Strictly positive 12-month historical gross dividend yield
5. Suspension from trading not exceeding 10% of the STOXX calendar trading days:

[25] http://www.STOXX.com/download/indices/vendor_codes.xls
[26] For additional information, please refer to the STOXX True Exposure indices section: https://www.stoxx.com/document/Indices/Common/Indexguide/stoxx_index_guide.pdf

23. iSTOXX INFRASTRUCTURE TRUE EXPOSURE USA 75% DW INDEX

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

The remaining stocks compose the Eligible Universe.

Composition list: All stocks in the Eligible Universe are selected for inclusion in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors: The weighting factors are calculated based on their 12-month trailing gross dividend yield.
The weights are based on the closing prices of the Thursday prior to the second Friday of the review month:

$$w_i = \frac{dy_i}{\sum_{j=1}^{N} dy_j}$$

w_i target weight of component (i)
N number of constituents
dy_i trailing 12-month gross dividend yield of component (i) as of review cut-off date.

Weighting cap factor = (1,000,000,000 x target weight / closing price of the stock in EUR), rounded to integers

Additionally, components are capped at a maximum weight of 10%.

23.1.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components, a deleted stock is replaced with the highest-ranked non-component on the selection list. The selection list is updated on a monthly basis according to the review component selection process. During review implementation month the process laid out in section 3.4. of the STOXX Methodology Guide will be applied.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the parent index also apply for the size indices.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

24.1. iSTOXX DIVERSITY IMPACT SELECT INDICES

24.1.1. OVERVIEW

The iSTOXX Diversity Impact Select 30 Indices focus on a pool of leading companies in terms of Worforce Diversity and Discrimination Policies and select 30 stocks out of them with low volatility, high dividend yield and high liquidity.

Index name	Symbol	Bloomberg ticker	Reuters RIC
iSTOXX Europe Diversity Impact Select 30 EUR (Price)	SXEDISP	SXEDISP Index	.SXEDISP
iSTOXX Europe Diversity Impact Select 30 EUR (Net Return)	SXEDISR		.SXEDISR
iSTOXX Europe Diversity Impact Select 30 EUR (Gross Return)	SXEDISGR		.SXEDISGR
iSTOXX Europe Diversity Impact Select 30 USD (Price)	SXEDISL	SXEDISL Index	.SXEDISL
iSTOXX Europe Diversity Impact Select 30 USD (Net Return)	SXEDISV		.SXEDISV
iSTOXX Europe Diversity Impact Select 30 USD (Gross Return)	SXEDISGV		.SXEDISGV
iSTOXX Global Diversity Impact Select 30 EUR (Price)	SXGDISP	SXGDISP Index	.SXGDISP
iSTOXX Global Diversity Impact Select 30 EUR (Net Return)	SXGDISR		.SXGDISR
iSTOXX Global Diversity Impact Select 30 EUR (Gross Return)	SXGDISGR		.SXGDISGR
iSTOXX Global Diversity Impact Select 30 USD (Price)	SXGDISL	SXGDISL Index	.SXGDISL
iSTOXX Global Diversity Impact Select 30 USD (Net Return)	SXGDISV		.SXGDISV
iSTOXX Global Diversity Impact Select 30 USD (Gross Return)	SXGDISGV		.SXGDISGV

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index for the Global version, STOXX Europe 600 for the Europe version.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Sep 21, 2009

Index types and currencies: Price, Net and Gross return in EUR and USD

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

Dissemination calendar: STOXX Europe calendar

For a complete list please consult the data vendor code sheet on the website[27]. Customized solutions can be provided upon request.

24.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i) "Diversity Impact" score, calculated as the average of the "Discrimination" and "Diversity" scores for each company. These 2 scores come from a transparent ESG performance rating model provided by Sustainalytics. In specific, those two Social indicators range from 0 to 100 for each company and are defined as follows:
   a. S.1.2 Discrimination Policy: an assessment of the quality of the company's policy to eliminate discrimination and ensure equal opportunity
   b. S.1.3 Diversity Programmes: an assessment of the strength of the company's initiatives to increase the diversity of its workforce.

ii) 12-month historical dividend yield

iii) 3-month and 12-month historical volatility in EUR

iv) 3-month Average Daily Traded Volume (ADTV) in EUR

If any of the fields ii) to iv) above have missing information for a stock, then that company is removed from the base universe. If the Discrimination (i.a) or the Diversity (i.b) indicators for a company have missing information, then a score of zero (0) is assigned to them instead.

Finally, the Selection list constitutes of all the stocks in the base universe that fulfill the conditions above, have a 3-month ADTV equal to or exceeding 5 million EUR, and additionally, have not been suspended from trading for more than 10% of the total trading days in the STOXX calendar in the previous 12 months:

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

Composition list:
All eligible stocks are first sorted in descending order based on the Diversity Impact score, and the top 50% (highest score) stocks are selected. In case two companies for a given cut-off date have the same score, priority is given to the one with the highest dividend yield. In the case where two companies are tied in both Diversity Impact score and dividend yield (e.g. no dividend has been paid in the last 12 months by any of the companies, and both display a Diversity Impact score of 50), priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

Consequently, stocks are sorted in ascending order in terms of volatility (as defined above). For the Global version, the top 300 (lowest volatility stocks) are selected for the next step of the selection process, while for the Europe version, the top 100 stocks are selected instead.

[27] http://www.STOXX.com/download/indices/vendor_codes.xls

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

Finally, the stocks are ranked in descending order in terms of 12-month historical dividend yield and the top 30 (highest dividend yield) stocks are selected in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the Selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	Maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	Number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

Derived Indices: The iSTOXX Europe Diversity Impact Select 30 Net Return Index serves as input for the iSTOXX Europe Diversity Impact Select 30 NR Decrement 5% Index, while the iSTOXX Global Diversity Impact Select 30 Net Return Index serves as input for the iSTOXX Global Diversity Impact Select 30 NR Decrement 5% Index (section 0)

24.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases in its ESG-risk level to level 5 the respective constituent will be deleted from the index. The deletion will take place two trading days after the announcement. The constituent's weight will be distributed among the remaining constituents. This is in line with the STOXX ESG Indices.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

24.2. ISTOXX DIVERSITY ENHANCED IMPACT SELECT INDICES

24.2.1. OVERVIEW

The iSTOXX Global Diversity Enhanced Impact Select 30 Index tracks the performance of 30 liquid stocks with low volatility and high dividend yield. The components are selected from a pool of leading companies in terms of workforce diversity and discrimination policies. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies who are non-compliant with Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Effective up until September 2020 review, additionally, the Coal sector (ICB Code 1771) and the Tobacco sector (ICB Code 3785) are excluded. Effective with September 2020 review, additionally, the Coal sector (ICB Code 60101040) and the Tobacco sector (ICB Code 45103010) are excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

For a complete list please consult the data vendor code sheet on the website[28]. Customized solutions can be provided upon request.

24.2.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. “Diversity Impact” score, calculated as the average of the “Discrimination” and “Diversity” scores for each company. These 2 scores come from a transparent ESG performance rating model provided by Sustainalytics. In specific, those two Social indicators range from 0 to 100 for each company and are defined as follows:
    a. S.1.2 Discrimination Policy: an assessment of the quality of the company’s policy to eliminate discrimination and ensure equal opportunity
    b. S.1.3 Diversity Programmes: an assessment of the strength of the company’s initiatives to increase the diversity of its workforce.

[28] http://www.STOXX.com/download/indices/vendor_codes.xls

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

ii. 12-month historical dividend yield
iii. 3-month and 12-month historical volatility in EUR
iv. 3-month Average Daily Traded Volume (ADTV) in EUR

If any of the fields ii) to iv) above have missing information for a stock, then that company is removed from the base universe. If the Discrimination (i.a) or the Diversity (i.b) indicators for a company have missing information, then a score of zero (0) is assigned to them instead.

The Selection list constitutes of all the stocks in the base universe that fulfil the conditions below:

- Assigned to one of the following countries by STOXX in one of the countries below:
    a. North America: United States or Canada
    b. Europe: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland or United Kingdom
    c. Asia: Australia, Hong Kong, Israel, Japan, New Zealand or Singapore
- Not in contravention of Global Standards or involved in Controversial Weapons activities, as identified by Sustainalytics
- Effective up until September 2020 review, not belonging to the Coal or Tobacco ICB subsectors (1771, 3785 ICB codes)
  Effective with September 2020 review, not belonging to the Coal or Tobacco ICB subsectors (60101040, 45103010 ICB codes)
- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR
- No suspension from trading for more than 10% of the total trading days in the STOXX calendar in the previous 12 months[29]

Composition list: All eligible stocks are first sorted in descending order based on the Diversity Impact score, and the top 50% (highest score) stocks are selected. In case two companies for a given cut-off date have the same score, priority is given to the one with the highest dividend yield. In the case where two companies are tied in both Diversity Impact score and dividend yield (e.g. no dividend has been paid in the last 12 months by any of the companies, and both display a Diversity Impact score of 50), priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

Subsequently, stocks are sorted in ascending order in terms of volatility (as defined above). The top 300 (lowest volatility stocks) are selected for the next step of the selection process. In case less than 300 companies remain after the Diversity Impact score filtering, then the volatility step is omitted and all securities are eligible for the next step of the selection process (dividend screening).

Finally, the stocks are ranked in descending order in terms of 12-month historical dividend yield and the top 30 (highest dividend yield) stocks are selected to compose the index, in such a way that the following conditions are met:

[29] Min Number of Price Observations$_{period}$ = Number of Trading Days$_{period}$ * 0.9

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

1) Industry

Effective up until September 2020 review, maximum of 7 components coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, maximum of 7 components coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Health Care	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

2) Region

Maximum of 15 components and minimum of 3 components coming from the 3 geographic regions as defined in the selection list section (North America, Europe, Asia)

3) Country

For each country i, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$K_i = (SXW1_i + 10\%) * N$$

where:

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Diversity Enhanced Impact Select 30 Index

$SXW1_i$ weight of the components coming from country i, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global Diversity Enhanced Impact Select 30 Index

If the composition list cannot be completed with 30 names under the above constraints, the industry constraint (1) is relaxed, allowing a maximum of 8 components per grouping instead of 7. Further relaxation of this constraint is repeated if necessary until 30 components have been selected in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

24.2.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

24. iSTOXX DIVERSITY IMPACT SELECT INDICES

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

25. iSTOXX EUROPE ORIGIN 100 EQUAL WEIGHT INDICES

25.1. ISTOXX EUROPE ORIGIN 100 EQUAL WEIGHT INDICES

25.1.1. OVERVIEW

The iSTOXX Europe Origin 100 Equal Weight index selects the biggest companies of France and Germany by free-float market cap from the Stoxx Europe 600 benchmark and assigns them an equal weight. The component selection and rebalance is conducted on a quarterly basis in March, June, September and December.

Universe: The index universe is defined by STOXX Europe 600 index.

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight.

Base values and dates: 100 on Sep 24, 2007

For a complete list please consult the data vendor code sheet on the website[30]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR and USD.

25.1.2. INDEX REVIEW

Selection list:
From the universe only the stocks from France and Germany are selected.

Composition list: All stocks in the selection list are ranked by their free-float market cap. Then the union of the 60 best ranked stocks in France and the 40 best ranked stocks in Germany are selected to be part of the index.
Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December in line with the parent index. The review cut-off date for the underlying data is the last trading day of the month preceding the review month. The new composition of the Stoxx Europe 600 effective on Monday following the third Friday of the month (March, June, September, December) is used as base universe.

Weighting cap factors: All components are equal-weighted on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices. Weighting cap factor = (1,000,000,000 * weight in percentage / closing price of the stock in EUR) and rounded to integers.

25.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. Stocks deleted from the parent index, which remain in the STOXX Total Market Index are not deleted from the index.
Fast exit: Not applicable.
Fast entry: Not applicable.

[30] http://www.STOXX.com/download/indices/vendor_codes.xls

25. iSTOXX EUROPE ORIGIN 100 EQUAL WEIGHT INDICES

Spin-offs: Spun-off companies are not added permanently to the index.
Mergers and takeovers: Standard STOXX process.
Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

26. iSTOXX WORLD TOP 200 INDICES

26.1. ISTOXX WORLD EQUAL WEIGHT REGIONAL SUB-INDICES

26.1.1. OVERVIEW

The constituents for the iSTOXX Regional Equal Weight indices are selected from the corresponding STOXX Total Market Index. The largest companies in terms of free-float market capitalization are selected in order to achieve the targeted fixed number of components. The constituents of the indices are equal weighted.

Universe: The universe is defined by the Total Market indices of the specific region or country.

Weighting scheme: Price-weighted indices with weighting factor to achieve equal weighting

Base values and dates: 100 on Mar 19, 2007. For the following 6 indices[31]:

Index	Currency	Base Date	Price	Net Return	Gross Return
iSTOXX Switzerland 10 Equal Weight	CHF	Mar 19, 2007	99.81	100.22	100.03
iSTOXX China H 20 Equal Weight	HKD	Mar 19, 2007	100.02	100.01	100.02

For a complete list please consult the data vendor code sheet on the website[32]. Customized solutions can be provided upon request.

Index types and currencies: Price, Net return and Gross return in EUR, USD and Native currency

Dissemination calendar: STOXX Europe calendar for EURO iSTOXX 65 Equal Weight, iSTOXX UK 25 Equal Weight and iSTOXX Switzerland 10 Equal Weight indices; STOXX Americas for iSTOXX USA 60 Equal Weight index; STOXX Global for iSTOXX Japan 20 Equal Weight and iSTOXX China H 20 Equal Weight Indices

[31] The base value of these indices has been restated following a change in their history that occurred in Jan, 2018
[32] http://www.STOXX.com/download/indices/vendor_codes.xls

26. iSTOXX WORLD TOP 200 INDICES

26.1.2. INDEX REVIEW

Composition list: The largest companies in terms of Free-Float Market capitalization in their respective Total Market index.

Region	Index name	Universe	Targeted number of components	Native Currency
Eurozone	EURO iSTOXX 65 Equal Weight	EURO STOXX Total Market	65	EUR
UK	iSTOXX UK 25 Equal Weight	STOXX UK Total Market	25	GBP
Switzerland	iSTOXX Switzerland 10 Equal Weight	STOXX Switzerland Total Market	10	CHF
USA	iSTOXX USA 60 Equal Weight	STOXX USA Total Market	60	USD
Japan	iSTOXX Japan 20 Equal Weight	STOXX Japan Total Market	20	JPY
China H-Shares	iSTOXX China H 20 Equal Weight	STOXX China H Total Market	20	HKD

Weighting cap factors: The constituents of the indices are equal weighted. The component selection list and weightings of the constituents (w_i) will be produced on a quarterly basis.

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Review frequency: The indices are reviewed quarterly, on the 3rd Friday of March, June, September and December. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

Derived Indices: The six regional indices serve as inputs for the iSTOXX World Top 200 Equal Weight Index (section 26.2)

26.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the indices.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

26. iSTOXX WORLD TOP 200 INDICES

26.2. ISTOXX WORLD TOP 200 EQUAL WEIGHT INDEX

26.2.1. INDEX CONCEPT

The iSTOXX World Top 200 Equal Weight Index allocates weights to six iSTOXX Regional Equal Weight indices that are covering separate regions across the globe, such that all their underlying components are equally weighted.

Rebalancing: The index is rebalanced on a quarterly basis, after the closing of the 3rd Friday of March, June, September and December.

Index types and currencies: Price, Net Return and Gross Return, in EUR and USD

Dissemination calendar: Intersection of the following dissemination calendars: STOXX Europe Regional calendar, STOXX Japan Country calendar, STOXX US Country calendar, STOXX Hong Kong Country calendar, STOXX Switzerland Country calendar and STOXX UK Country calendar.

Base values and dates: 100 as of Mar 19, 2007

26.2.2. CALCULATIONS

The index values are calculated as following:

$$IV_t = IV_{reb} \times \sum_{i=1}^{6} w_{reb,i} \times \frac{U_{t,i}}{U_{reb,i}}$$

With

$w_{reb,i}$	Target weight of sub-index i at rebalancing date
$U_{reb,i}$	Close value of sub-index i at rebalancing date
$U_{t,i}$	Value of sub-index i today at time t
IV_t	Index value today at time t
IV_{reb}	Index close value at rebalancing date
Reb	Rebalancing date

On each rebalancing date, specific weights are allocated to each underlying index according to the scheme displayed below, such that an equal weight is allocated to the 200 underlying components:

i	Sub-Index name	Dissemination Calendar	Weight ($w_{reb,i}$)
1	EURO iSTOXX 65 Equal Weight Index	STOXX Europe	32.5%
2	iSTOXX UK 25 Equal Weight Index	STOXX Europe	12.5%
3	iSTOXX Switzerland 10 Equal Weight Index	STOXX Europe	5%
4	iSTOXX USA 60 Equal Weight Index	STOXX Americas	30%
5	iSTOXX Japan 20 Equal Weight Index	STOXX Global	10%
6	iSTOXX China H 20 Equal Weight Index	STOXX Global	10%

26. iSTOXX WORLD TOP 200 INDICES

Derived Indices: The iSTOXX World Top 200 Equal Weight Index serves as input for the iSTOXX World Top 200 Equal Weight Decrement 50 Index (section 9.11)

27. EURO iSTOXX 80 EQUAL WEIGHT INDEX AND EURO iSTOXX 100 EQUAL WEIGHT INDEX

27.1. EURO iSTOXX 80 EQUAL WEIGHT INDEX AND EURO iSTOXX 100 EQUAL WEIGHT INDEX

27.1.1. OVERVIEW

The constituents for the EURO iSTOXX 80 Equal Weight and EURO iSTOXX 100 Equal Weight indices are selected from the EURO STOXX universe. The 80, and 100, largest constituents in terms of free-float market capitalization are selected respectively. The constituents of the indices are equal weighted.

Universe: All securities from the EURO STOXX index.

Weighting scheme: Equal Weighted

Base value and date: 100 on Dec 19, 2005

Index types and currencies: Price, net and gross return in EUR and USD.

27.1.2. INDEX REVIEW

Selection list: All securities from the EURO STOXX index with a 3m ADTV of EUR 10.000.000 or more.

Composition list: The 80, and 100, largest constituents in terms of free-float market capitalization are selected respectively. The constituents of the indices are equal weighted. The component selection list will be produced on a quarterly basis.

Weighting cap factors: No capping is applied.

Review frequency: The components are reviewed quarterly. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

27.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

28. iSTOXX AMERICAN CENTURY INDICES

28.1. iSTOXX AMERICAN CENTURY USA QUALITY VALUE INDEX

The objective of the iSTOXX American Century USA Quality Value Index is to invest in high quality companies in the STOXX USA 900 Index that have sound fundamentals and attractive valuation and in companies with sustainable income that are high dividend payers respectively. The index is constructed by first building the value strategy, iSTOXX A.C.I. USA Value, and the income strategy, iSTOXX A.C.I. USA Income, and then dynamically allocating between them.

28.1.1. iSTOXX A.C.I. USA VALUE

28.1.1.1. OVERVIEW

The objective of the iSTOXX A.C.I. USA Value Index is to invest in high quality companies in the STOXX USA 900 Index that have sound fundamentals and attractive valuation.

Universe: The index universe is defined by the parent index, the STOXX USA 900.

Weighting scheme: The final index weights are price-weighted based on the result of an optimisation process.

Base values and dates: 100 on Feb 21, 2005

Index types and currencies: Price, net and gross return in USD.

Dissemination calendar: STOXX US calendar.

For a complete list please consult the data vendor code sheet on the website[33]. Customized solutions can be provided upon request.

28.1.1.2. INDEX REVIEW

Selection List:
Companies are selected from the STOXX USA 900. Initially, quality metrics are used to identify companies which do not meet certain criteria in terms of fundamentals. Fundamental data is used to calculate the raw quality components (e.g. FCF/Assets). The raw quality components are then aggregated to arrive at the Quality Factor Scores respectively (i.e. Profitability, Earnings Quality, Management Quality, Earnings Revision and Leverage). The Value Quality Score is calculated from the Quality Factor Scores.

The raw quality components which contribute to a quality factor are first discretized in 25 equal sized buckets based on their universe ranking. Discrete scores range from -12 to 12.

[33] http://www.STOXX.com/download/indices/vendor_codes.xls

28. iSTOXX AMERICAN CENTURY INDICES

The discrete scores for the raw quality components are then aggregated[34] to calculate the Quality Factor Score (e.g. Profitability Score, Earnings Quality Score etc.) and the Quality Factor Scores are then averaged to arrive at a final Value Quality Score.

- Profitability
  - Free Cash Flow/Assets
  - Return On Assets
  - Return On Equity
  - Gross Profitability (Gross Profit / Assets)
  - Gross Margin
  - Asset Turnover
- Earnings Quality
  - Balance sheet accruals
  - Cash-Flow accruals
  - Variability in Sales
  - Variability in Operating Income
  - Variability in Earnings
  - Variability in Cash-Flows
  - Variability in Analyst EPS FY1 Estimates to Price
  - Variability in Analyst Sales FY1 Estimates to Price
- Management Quality
  - Asset Growth
  - Issuance Growth
  - Capital Expenditure Growth
  - Capital Expenditure
- Earnings Revision
  - 3-month lookback FY1 earnings revision factor
  - 3-month lookback FY2 earnings revision factor
  - 3-month price momentum
- Leverage
  - Net Debt/EBITDA
  - Market Leverage
  - Book Leverage
  - Debt to Asset Ratio

Composition list:
The selection of stocks and the calculation of the weights are determined from an optimisation approach based on the calculated Value Score of the stocks.

The Value Score is calculated from the 3 Value Factors below:

- Pure/Deep value (B/P and Fwd S/P)

[34] The weightings are available on request based on license agreement

28. iSTOXX AMERICAN CENTURY INDICES

    - B/P
    - Fwd S/P (left out for Financials)
- Earnings Yield (Fwd E/P and Fwd EBITDA/EV)
    - Fwd E/P
    - Fwd EBITDA/EV (left out for Financials)
- CF Yield (OCF/P and FCF/P)
    - OCF/P
    - FCF/P

All raw valuation components (i.e. B/P, Fwd S/P, Fwd E/P, Fwd EBITDA/EV, OCF/P and FCF/P) are discretized in 25 equal sized buckets based on their ICB supersector classification. Discrete scores range from -12 to 12. Scores are then averaged to arrive at a final Value Score.

Any companies that meet the following conditions are then excluded from the Value universe before the optimization process:

- Value Quality Score is in the bottom 20% of the universe
- Value Quality Score is in the bottom 20% of its ICB supersector

The Value Scores of the remaining companies are converted into a market capitalization weighted cross-sectional z-scores by subtracting the market capitalization weighted mean of the Value Scores from the non-weighted Value Score and dividing by the market capitalization weighted standard deviation of the Value Scores.

The Value optimization portfolio is derived based on the Axioma optimization model. The objective function is to maximize the alpha where alpha is the value score converted to expected returns (SpecificRisk * IC * Value Z-Score; IC = .05) based on Grinold (1994)[35]. The information coefficient, IC, is a measure of the correlation between the Value Z-Score and realized returns.

The portfolio is limited to having between 200-300 components. Its active exposure to any ICB supersector can be at most 150 bps more than the weight of the ICB supersector in the STOXX USA 900 index. The optimizer is penalized for tilting the portfolio towards smaller cap stocks or stocks with poor earnings quality and targets a beta of 1.

In addition, the portfolio is also subject to security level constraints. The universe of stocks is classified into nine tiers according to volatility and market cap where stocks with low volatility and large market capitalization are grouped in the top tier. The maximum position in any stock in the top tier is 250 bps and this upper limit is reduced in step by 25bps in the next tier until the bottom tier would have an upper limit of 50bps. The minimum position in any stock is 25 bps. The one-way turnover limit is 20% per rebalance.

[35] Grinold, Richard C. (1994) “Alpha is Volatility Times IC Times Score, or Real Alphas Don’t Get Eaten.” Journal of Portfolio Management, vol. 20, no. 4 (Summer) 9-16

28. iSTOXX AMERICAN CENTURY INDICES

Review frequency: The reviews are conducted on a quarterly basis on the last dissemination day in February, May, August and November. The data cut-off date is eight dissemination days before the review date.

Weighting cap factors: (1,000,000,000 x w_i / closing $price_i$), rounded to integers. The weight cap factors are calculated on the basis of the stocks' closing prices in USD from four dissemination days before the review date.

28.1.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs stocks are not added permanently

Mergers and takeovers: Standard STOXX process

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult to the STOXX Calculation guide for the detailed treatments.

28.1.2. iSTOXX A.C.I. USA INCOME

28.1.2.1. OVERVIEW

The objective of the iSTOXX A.C.I. USA Income Index is to invest in high quality companies in the STOXX USA 900 Index with sustainable income that are high dividend payers.

Universe: The index universe is defined by the parent index, the STOXX USA 900.

Weighting scheme: The final index weights are price-weighted based on the result of an optimisation process.

Base values and dates: 100 on Feb 21, 2005

Index types and currencies: Price, net and gross return in USD.

Dissemination calendar: STOXX US Calendar.

For a complete list please consult the data vendor code sheet on the website[36]. Customized solutions can be provided upon request.

[36] http://www.STOXX.com/download/indices/vendor_codes.xls

28. iSTOXX AMERICAN CENTURY INDICES

28.1.2.2. INDEX REVIEW

Selection List:
Companies are selected from the STOXX USA 900. Initially, quality metrics are used to identify companies which do not meet certain criteria in terms of fundamentals. Fundamental data is used to calculate the raw quality components (e.g. FCF/Assets). The raw quality components are then aggregated to arrive at the Quality Factor Scores respectively (i.e. Profitability, Earnings Quality, Management Quality, Earnings Revision and Leverage). The Income Quality Score is calculated from the Quality Factor Scores.

The raw quality components which contribute to a quality factor are first discretized in 25 equal sized buckets based on their universe ranking. Discrete scores range from -12 to 12.

The discrete scores for the raw quality components are then aggregated[37] to calculate the Quality Factor Score (e.g. Profitability Score, Earnings Quality Score etc) and the Quality Factor Scores are then averaged to arrive at a final Income Quality Score.

- Profitability
  - Free Cash Flow/Assets
  - Return On Assets
  - Return On Equity
  - Gross Profitability (Gross Profit / Assets)
  - Gross Margin
  - Asset Turnover
- Earnings Quality
  - Balance sheet accruals
  - Cash-Flow accruals
  - Variability in Sales
  - Variability in Operating Income
  - Variability in Earnings
  - Variability in Cash-Flows
  - Variability in Analyst EPS FY1 Estimates to Price
  - Variability in Analyst Sales FY1 Estimates to Price
- Management Quality
  - Asset Growth
  - Issuance Growth
  - Capital Expenditure Growth
  - Capital Expenditure
- Earnings Revision
  - 3-month lookback FY1 earnings revision factor
  - 3-month lookback FY2 earnings revision factor
  - 3-month price momentum

[37] The weightings are available on request based on license agreement

28. iSTOXX AMERICAN CENTURY INDICES

Composition list:
The selection of stocks and the calculation of the weights of the iSTOXX A.C.I. USA Income Index are determined from an optimisation approach based on the calculated Income Score of the stocks.

The Income Score is calculated from the dividend yield:

Dividend yield = Most recently reported quarterly Dividend Per Share (annualised) / current price

In addition, the following are calculated to use in filtering the universe before the Income optimization.

a) Dividend Growth
   - YoY percent change of most recently reported DPS
b) Volatility
   - 6-month volatility of daily price returns
c) Dividend Payout (only positive values considered)
   - Category: Banks and Utilities
     - Annualized DPS / LTM EPS
   - Category: REITs
     - Annualized DPS / LTM AFFO per share
   - Category: All others
     - Annualized DPS / LTM Free Cash Flow per share
d) Income Leverage
   - Category: Banks
     - Tangible Common Equity / Tangible Assets
   - Category: All others
     - Net Debt / EBITDA

A company is also removed from the universe before Income optimization if any of the following conditions are met:

- Dividend Yield is in the top 3% of the dividend-paying universe
- Dividend Payout is in the top 5% within its dividend-paying category
- Dividend Growth is negative
- Volatility is in the top 20% of the universe
- Income Leverage is in the top 20% of its ICB supersector (excluding banks)
- Income Leverage is in the bottom 20% of its ICB supersector (banks only)
- Income Quality Score is in the bottom 20% of the universe
- Income Quality Score is in the bottom 20% of its ICB supersector

The selection of stocks and the determining of the weights are determined from an optimisation approach based on the Income Z-Score of the stocks. The Income Score is converted into a

28. iSTOXX AMERICAN CENTURY INDICES

standard cross-sectional z-score by subtracting the mean of the Income Scores from the Income Score and dividing by the standard deviation of the Income Scores after the above selection criteria for the remaining companies.

The Value optimization portfolio is derived based on the Axioma optimization model. The objective function is to maximize the alpha where alpha is the income score converted to expected returns (SpecificRisk * IC * Income Z-Score; IC = .05) based on Grinold (1994)[38]. The information coefficient, IC, is a measure of the correlation between the Income Z-Score and realized returns.

The portfolio is limited to having between 75-100 components. The portfolio exposure to any ICB industry (with the exception of financials which is further decomposed into Real Estate supersector and non-Real Estate supersectors) is no greater than 20%, or no more than 15% higher than the weight of the industry in the STOXX USA 900 index. The optimizer targets a beta of 0.8.

In addition, the portfolio is also subject to security level constraints. The universe of stocks is classified into six tiers according to volatility and market cap where stocks with low volatility and large market capitalization are grouped together. The maximum position in any stock in the top tier is 300 bps and this upper limit is reduced in step by 50bps in the next tier until the bottom tier would have an upper limit of 50bps. The minimum position in any stock is 25bps. The one-way turnover limit is 20% per rebalance.

Review frequency: The reviews are conducted on a quarterly basis on the last dissemination day in February, May, August and November. The data cut-off date is eight dissemination days before the review date.

Weighting cap factors: (1,000,000,000 x w_i / closing $price_i$), rounded to integers. The weight cap factors are calculated on the basis of the stocks' closing prices in USD from four dissemination days before the review date.

28.1.2.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs stocks are not added permanently

Mergers and takeovers: Standard STOXX process

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult to the STOXX Calculation guide for the detailed treatments.

[38] Grinold, Richard C. (1994) "Alpha is Volatility Times IC Times Score, or Real Alphas Don't Get Eaten." Journal of Portfolio Management, vol. 20, no. 4 (Summer) 9-16

28. iSTOXX AMERICAN CENTURY INDICES

28.1.3. iSTOXX AMERICAN CENTURY USA QUALITY VALUE

28.1.3.1. OVERVIEW

The iSTOXX American Century USA Quality Value Index represents a dynamic allocation to the above high quality value strategy and sustainable income strategy. The weightings of the strategies within the index are governed by a volatility adjusted trend signal. The allocation to the value strategy can range from a minimum of 35% to a maximum of 80%. The portfolio is rebalanced monthly. At each rebalance, depending on the signal, the allocation to value and income may change in steps of 15%.

Universe: The index universe is defined by the iSTOXX A.C.I. USA Value Index and the iSTOXX A.C.I. USA Income Index.

Weighting scheme: The index is weighted according to a dynamic allocation between the two universes with relative weighting in each universe left unchanged.

Base values and dates: 100 on May 31, 2005

Dissemination calendar: STOXX US Calendar

Index types and currencies: Price, net return, gross return in USD

28.1.3.2. INDEX REVIEW

Calculation of target allocation

1) Calculate 20-, 40-, and 60-day Sharpe ratios for both the Value and Income index using price returns:

$$SR^{x}_{cutoff} = \frac{\overline{R_U} \cdot 260}{\sqrt{\frac{1}{x-1}\sum_{t=cutoff-x+1}^{cutoff}\left(\frac{U_t}{U_{t-1}} - 1 - \overline{R_U}\right)^2 \cdot 260}}$$

$$\overline{R_U} = \frac{1}{x}\sum_{t=cutoff-x+1}^{cutoff}\left(\frac{U_t}{U_{t-1}} - 1\right)$$

where

$\boldsymbol{x}$ = number of daily returns (20, 40, 60)

$\boldsymbol{U_t}$ = index value on day t

$\boldsymbol{cutoff}$ = data cut-off date (four dissemination days before review date)

In case that for at least one window (20-, 40-, or 60-day) the average return in the Sharpe ratio calculation for both the Value and Income index is negative the Sharpe ratio formula is replaced by the average return formula in the following steps.

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2) Calculate the average Sharpe ratio for both the Value and Income index.
3) If the average Sharpe ratio for the Value index is greater than the average Sharpe ratio of the Income index add 15 percentage points to the previous month's Value target allocation, otherwise subtract. The minimum and maximum allocations for the Value Index are 35% and 80% respectively (Income target allocation = 100% - Value target allocation).

Composition list: All stocks in the universe build up the index composition. The component weights are calculated by aggregating the respective Value index and Income index weight using the target allocation weight.

$$w_i = ta_V \cdot w_{i,V} + ta_I \cdot w_{i,I}$$

where

$\boldsymbol{ta_V}$ = Value target allocation
$\boldsymbol{ta_I}$ = Income target allocation
$\boldsymbol{w_{i,V}}$ = weight of stock *i* in the Value index (0% if not in the index) as of the data cut-off date
$\boldsymbol{w_{i,I}}$ = weight of stock *i* in the Income index (0% if not in the index) as of the data cut-off date

In review months of the universe indices (February, May, August, November) the Value and Income weights to be implemented are used.

Review frequency: The reviews are conducted on a monthly basis on the last dissemination day of the month. The review cut-off date for the underlying data is four dissemination days before the review date.

Weighting cap factors: $1{,}000{,}000{,}000 \cdot w_i / closing\ price_i$, rounded to integers. The weighting cap factors are calculated on the basis of the stocks' closing prices from the data cut-off date.

28.1.3.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult the STOXX Calculation guide for detailed treatment.

28. iSTOXX AMERICAN CENTURY INDICES

28.2. iSTOXX AMERICAN CENTURY USA QUALITY GROWTH INDEX

The objective of the iSTOXX American Century USA Quality Growth index is to invest in high growth companies as well as in companies with sustainable growth prospects with attractive valuations.

The index is a blend of the iSTOXX A.C.I. USA Pure Growth Index and the iSTOXX A.C.I. USA Stable Growth Index.

28.2.1. iSTOXX A.C.I. PURE GROWTH INDEX & iSTOXX A.C.I. STABLE GROWTH INDEX

28.2.1.1. OVERVIEW

Universe: The index universes are defined by the parent index, the STOXX USA 900.

Weighting scheme: The indices are price-weighted based on the result of an optimisation process.

Base values and dates: 100 on February 28, 2005

For a complete list please consult the data vendor code sheet on the website[39].

Index types and currencies: Price, net return, gross return in USD.

Dissemination calendar: STOXX US calendar.

28.2.1.2. INDEX REVIEW

Selection list: Companies are selected from the STOXX USA 900. Initially, quality metrics are used to identify companies which do not meet certain criteria in terms of fundamentals. The fundamental data used is shown below and used to calculate the raw quality metrics (e.g. FCF/Assets).

The raw quality metrics which contribute to a quality factor are transformed to scores between 0 and 100 (the less companies in the group the further the minimum and maximum from the boundaries) before aggregation:

$$score = 100 - rank(metric) \cdot \frac{100}{count(metric)} + \frac{100}{2 \cdot count(metric)}$$

Depending on if the factor goes long a company when the component value is high (low), the discrete score will be high when the value is high (low). If a metric is not available, the default value is the bottom score.

[39] http://www.STOXX.com/download/indices/vendor_codes.xls

28. iSTOXX AMERICAN CENTURY INDICES

The scores for the raw quality metrics are aggregated using the weights in brackets to calculate the Quality Factor Scores (e.g. Profitability Score, Earnings Quality Score, etc.) and the Quality Factor Scores are finally aggregated using the weights in brackets below to arrive at the final Quality Score.

- Profitability
  - Free Cash Flow/Assets
  - Return On Assets
  - Return On Equity
  - Gross Profitability (Gross Profit / Assets)
  - Gross Margin
  - Asset Turnover
- Earnings Quality
  - Balance sheet accruals
  - Cash-Flow accruals
  - Variability in Sales
  - Variability in Operating Income
  - Variability in Earnings
  - Variability in Cash-Flows
  - Variability in Analyst EPS FY1 Estimates to Price
  - Variability in Analyst Sales FY1 Estimates to Price
- Earnings Momentum
  - 1-month lookback FY1 earnings revision factor
  - 1-month lookback FY2 earnings revision factor
  - 3-month price momentum
- Leverage
  - Net Debt/EBITDA
  - Market Leverage
  - Book Leverage
  - Debt to Asset Ratio

For each company a Size Score is calculated as the z-score of the natural log of free-float market caps (whereby the values are centered by a weighted average using parent index weights).

Composition list: iSTOXX A.C.I. USA PURE GROWTH INDEX

The selection of stocks and the calculation of the weights of the iSTOXX A.C.I. USA Pure Growth Index are determined based on an optimisation approach using the calculated Growth Score of the stocks.

The Growth Score is calculated using the following metrics:

- Historical Growth
  - 3-year average EPS growth
  - 5-year average EPS growth
  - 3-year average FCFPS growth

    - 5-year average FCFPS growth
- Expected Growth
    - EPS long term growth forecast
    - EPS FY2 vs FY0 growth forecast
- Implied Growth
    - PE NTM
    - PB

All raw growth metrics (e.g. 3-year average EPS growth) are transformed to ranks before aggregation using the previous formula. Depending on if the factor goes long a company when the component value is high (low), the discrete score will be high when the value is high (low). If the metric is not available, the default value is the bottom score.

Scores for the raw growth metrics are aggregated to arrive at a final Growth Score.

Any companies that meet the following conditions are then excluded from the Pure Growth universe before the optimization process:

- Growth Score is in the bottom 40% of all companies in the parent index
- Quality Score is in the bottom 25% of all companies in the parent index
- Quality Score is in the bottom 25% of the respective ICB Supersector in the parent index

The Pure Growth composition is based on an optimization that maximizes the portfolio Growth Score.

The optimization constraints are as follows:

1. Portfolio level constraints:
    a. Maximum one-way turnover is 35% per quarter
    b. ICB Industry active exposure limits to be between 0.5 and 2 times the corresponding STOXX USA 900 ICB Industry weight whereby ICB Technology and Telecommunication are combined
    c. Number of names in the portfolio between 125 and 200
    d. Beta from 0.8 to 1.2
    e. Portfolio Growth Score at least 1.3 times the parent index Growth Score
    f. Portfolio Size Score at least -2
2. Asset level constraints:
    a. Weights in portfolio >= 25 bps
    b. The companies are grouped based on the sum of their large Size (measured by free-float market cap) and low Volatility (measured by 6-months volatility) percentage rank into seven equally-filled bins. Companies that fall in the top bin (large size and low volatility) would have an upper weight of 350 bps and the upper weight is reduced by 50 bps down the bins until the last bin would have an upper limit of 50 bps.

Until the February 2019 review the quality filter excluded the bottom 20 percent and the turnover constraint was set to 25%.

28. iSTOXX AMERICAN CENTURY INDICES

Composition list: iSTOXX A.C.I. USA STABLE GROWTH INDEX
The selection of stocks and the calculation of the weights of the iSTOXX A.C.I. USA Stable Growth Index are determined based on an optimisation approach using a Value and Profitability Composite Score.

The Value Score is calculated from the following value metrics:

- Pure/Deep value (B/P and Fwd S/P)
  - B/P
  - Fwd S/P
- Earnings Yield (Fwd E/P and Fwd EBITDA/EV)
  - Fwd E/P
  - Fwd EBITDA/EV
- CF Yield (OCF/P and FCF/P)
  - OCF/P
  - FCF/P

All raw value metrics (e.g. B/P) are transformed to ranks before aggregation whereby the rank is calculated within the respective ICB Supersector. Depending on if the factor goes long a company when the component value is high (low), the discrete score will be high when the value is high (low). If a metric is not available, the default value is the bottom score. Scores are then aggregated using the weights mentioned in brackets above to arrive at a final Value Score.

Any companies that meet the following conditions are then excluded from the Stable Growth universe before the optimization process:

- Growth Score is in the bottom 40% of all companies in the parent index
- Quality Score is in the bottom 25% of all companies in the parent index
- Quality Score is in the bottom 25% of the respective ICB Supersector in the parent index

The Stable Growth composition is based on an optimization that maximizes the composite of the Value and Profitability Score of the portfolio.

The constraints are as follows:

1. Portfolio level constraints:
   a. Maximum one-way turnover is 35% per quarter
   b. ICB Industry active exposure limits to be between 0.3 and 1.5 times the corresponding STOXX USA 900 ICB Industry weight whereby ICB Technology and Telecommunication are combined
   c. Number of names in the portfolio between 125 and 200
   d. Beta from 0.9 to 1.1
   e. Portfolio Growth Score at least 1.15 times the parent index Growth Score
   f. Portfolio Size Score at least -2
2. Asset level constraints:
   a. Weights in portfolio >= 25 bps

b. The companies are grouped based on the sum of their large Size (measured by free-float market cap) and low Volatility (measured by 6-months volatility) percentage rank into seven equally-filled bins. Companies that fall in the top bin (large size and low volatility) would have an upper weight of 350 bps and the upper weight is reduced by 50 bps down the bins until the last bin would have an upper limit of 50 bps.

Until the February 2019 review the quality filter excluded the bottom 20 percent, the turnover constraint was set to 25%, and the minimum growth constraint to 1.3.

Review frequency: The reviews are conducted on a quarterly basis on the last dissemination day in February, May, August and November. The data cut-off date is eight dissemination days before the review date.

Weighting cap factors: (1,000,000,000 x wi / closing pricei), rounded to integers. The weight cap factors are calculated on the basis of the stocks' closing prices in USD from four dissemination days before the review date.

28.2.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated
in the same way in all indices. Please consult to the STOXX Calculation guide for the detailed treatments.

28.2.2. iSTOXX AMERICAN CENTURY USA QUALITY GROWTH INDEX

28.2.2.1. OVERVIEW

The iSTOXX American Century USA Quality Growth Index represents a dynamic allocation to the above Pure and Stable Growth strategies. The weightings of the strategies within the index are governed by a volatility adjusted trend signal. The allocation to the Pure Growth strategy can range from a minimum of 35% to a maximum of 65%. The portfolio is rebalanced monthly. At each rebalance, depending on the signal, the allocation to Pure and Stable Growth may change in steps of 15%.

Universe: The index universe is defined by the iSTOXX A.C.I. USA Pure Growth Index and the iSTOXX A.C.I. USA Stable Growth Index.

Weighting scheme: The index is weighted according to a dynamic allocation between the two universes with relative weighting in each universe left unchanged.

28. iSTOXX AMERICAN CENTURY INDICES

Base values and dates: 100 on May 31, 2005

Dissemination calendar: STOXX US Calendar

Index types and currencies: Price, net return, gross return in USD

28.2.2.2. INDEX REVIEW

Calculation of target allocation

1) Calculate 20-, 40-, and 60-day Sharpe ratios for both the Pure and Stable Growth index using price returns:

$$SR^{x}_{cutoff} = \frac{\overline{R_U} \cdot 260}{\sqrt{\frac{1}{x-1}\sum_{t=cutoff-x+1}^{cutoff}\left(\frac{U_t}{U_{t-1}} - 1 - \overline{R_U}\right)^2 \cdot 260}}$$

$$\overline{R_U} = \frac{1}{x}\sum_{t=cutoff-x+1}^{cutoff}\left(\frac{U_t}{U_{t-1}} - 1\right)$$

where

$\boldsymbol{x}$ = number of daily returns (20, 40, 60)

$\boldsymbol{U_t}$ = index value on day t

$\boldsymbol{cutoff}$ = data cut-off date (four dissemination days before review date)

In case that for at least one window (20-, 40-, or 60-day) the average return in the Sharpe ratio calculation for both the Pure and Stable Growth index is negative the Sharpe ratio formula is replaced by the average return formula in the following steps.

2) Calculate the average Sharpe ratio for both the Pure Growth and Stable Growth index.

3) If the average Sharpe ratio for the Pure Growth index is greater than the average Sharpe ratio of the Stable Growth index add 15 percentage points to the previous month's Pure Growth target allocation, otherwise subtract. The minimum and maximum allocations for the Pure Growth Index are 35% and 65% respectively (Stable Growth target allocation = 100% - Pure Growth target allocation).

Composition list: All stocks in the universe build up the index composition. The component weights are calculated by aggregating the respective Pure Growth index and Stable Growth index weight using the target allocation weight.

$$w_i = ta_P \cdot w_{i,P} + ta_S \cdot w_{i,S}$$

28. iSTOXX AMERICAN CENTURY INDICES

where

$\boldsymbol{ta_P}$ = Pure Growth target allocation

$\boldsymbol{ta_S}$ = Stable Growth target allocation

$\boldsymbol{w_{i,P}}$ = weight of stock *i* in the Pure Growth index (0% if not in the index) as of the data cut-off date

$\boldsymbol{w_{i,S}}$ = weight of stock *i* in the Stable Growth index (0% if not in the index) as of the data cut-off date

In review months of the universe indices (February, May, August, November) the Value and Income weights to be implemented are used.

Review frequency: The reviews are conducted on a monthly basis on the last dissemination day of the month. The review cut-off date for the underlying data is four dissemination days before the review date.

Weighting cap factors: $1{,}000{,}000{,}000 \cdot w_i / closing\ price_i$, rounded to integers. The weighting cap factors are calculated on the basis of the stocks' closing prices from the data cut-off date.

28.2.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult the STOXX Calculation guide for detailed treatment.

29. iSTOXX GLOBAL INDUSTRY NEUTRAL ESG 600 INDEX

29.1. iSTOXX GLOBAL INDUSTRY NEUTRAL ESG 600 INDEX

29.1.1. OVERVIEW

The iSTOXX Global Industry Neutral ESG 600 index tracks the performance of the leading companies with regard to Environmental, Social and Governance criteria, based on ESG indicators based on a transparent rating model as provided by Sustainalytics.

Universe:
The index universe defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective date. Companies without a rating will not be included in the index.

Weighting scheme:
Free Float Market Cap with a capping algorithm to calculate component weights so that the ICB Industry weight of the index is similar to the ICB Industry weight of the Benchmark.

Base values and dates: 100 on Sep 24, 2012

Index types and currencies: Price, Net and Gross in EUR and USD.

29.1.2. INDEX REVIEW

Selection list:
All securities from the STOXX Global 1800 index. Companies without a rating will not be included in the index.

Before starting with the selection process a set of exclusion criteria is applied. The criteria follow the Global Standards Screening (GSS) as well as a set of definitions for controversial weapons.

Global Standards Screening :
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.
The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale of controversial weapons

29. iSTOXX GLOBAL INDUSTRY NEUTRAL ESG 600 INDEX

» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Composition list:
The constituents for the iSTOXX Global Industry Neutral ESG 600 index are selected from the STOXX Global 1800 universe. The index is created by selecting companies with an Environmental (E), Social (S) and Governance (G) score >= 50, by selecting the 600 companies with the highest Total Rating Score, as provided by Sustainalytics.

From the universe, rank the companies in descending order in terms of the Total Rating Score, i.e. from the highest to the lowest Total Rating Score. In the event where the 600th constituents have identical Total Rating Scores, the constituent with the highest free-float market capitalization is selected.

Review frequency:
The components are reviewed annually in September. Shares, Free Float, and Capping are reviewed quarterly. For the capping procedure, the benchmark is defined as the new composition of the STOXX Global 1800 which becomes effective on the review date on the 3rd Friday of March, June, September and December.

Weighting scheme:
All components are free float market cap weighted with a capping algorithm which delivers an ICB Industry Neutral weighting compared to the benchmark, on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Determination of free-float market capitalization weights:

$$w_{it} = \frac{p_{it} \cdot n_{it} \cdot ff_{it}}{\sum_{i=1}^{n} p_{it} \cdot n_{it} \cdot ff_{it}}$$

wit = Free-Float Market Capitalization weight of company (i) at time (t)
pit = Price of company (i) at time (t)
nit = Number of shares of company (i) at time (t)
ffit = Free-float factor of company (i) at time (t)
nit = Number of shares

Weighting cap factors:
A capping algorithm is applied to calculate component weights so that the ICB Industry weight of the index is similar to the ICB Industry weight of the Benchmark.

29.1.3. ONGOING MAINTENANCE

Replacements:

29. iSTOXX GLOBAL INDUSTRY NEUTRAL ESG 600 INDEX

Deleted companies are not replaced. If a company is deleted from the STOXX Global 1800 index, but remains in the STOXX Global Total Market index, the stock will not be excluded from the index. If a constituent is deleted, it's weight will be distributed among the remaining constituents.

Fast exit:
In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry:
Not applicable.

Spin-offs:
A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers:
Standard STOXX process.

Corporate Actions:
All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

30. EURO iSTOXX 50 DAILY LEVERAGE AND SHORT INDICES

30.1. EURO iSTOXX 50 DAILY LEVERAGE AND SHORT INDICES

30.1.1. OVERVIEW

The EURO iSTOXX 50 Daily Leverage/Short indices are innovative index tools that replicate a leverage investment strategy based on the EURO STOXX 50® Index.

Leveraged indices are linked to the changes in the underlying index, applying a leverage factor to movements in the underlying index. Therefore, a positive change of the EURO STOXX 50® Index will result in the corresponding leveraged performance of the EURO iSTOXX 50 Daily Leverage Index compared to the closing level from the last rebalancing.

Short indices are linked inversely to the changes in the underlying index, applying a negative leverage factor to movements in the underlying index. Therefore, investing in the EURO iSTOXX 50 Daily Short Index yields the reverse performance of the EURO STOXX 50® Index, compared to the closing level from the last rebalancing.

Index types and currencies:

Index	Return Versions	Currency	Leverage (L)
EURO iSTOXX 50 Daily Leverage	Price, Net Return, Gross Return	EUR, USD	2
EURO iSTOXX 50 Daily Short	Price, Net Return, Gross Return	EUR, USD	-1

Base values and dates: 100,000 as of Jan 31, 2011

Dissemination calendar: STOXX Europe calendar

30.1.2. CALCULATIONS

The EURO iSTOXX 50 Daily Leverage/Short Indices are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_T} \times \left[1 + \mathrm{L} * \left(\frac{\mathrm{UI_t}}{\mathrm{UI_T}} - 1\right)\right]$$

Where,

IV	EURO iSTOXX 50 Daily Leverage/Short Index
UI	EURO STOXX 50® Index (Price, Net and Gross Return)
L	Leverage factor (2 for the EURO iSTOXX 50 Daily Leverage Index, -1 for the EURO iSTOXX 50 Daily Short Index)
t	Time of calculation
T	Time of last rebalancing day prior to t (previous trading day)

30.1.3. ADJUSTMENTS DUE TO EXTREME MARKET MOVEMENTS

30. EURO iSTOXX 50 DAILY LEVERAGE AND SHORT INDICES

The rebalancing is based on the calculation of average index values over a time window of 10 minutes. The time window to calculate the average starts 5 minutes after and ends 15 minutes after the trigger event occurs. The rebalancing is triggered when the underlying index loses more than x% (leverage index) or appreciates by more than x% (short index) compared to its previous day's close. The breach of the trigger is checked on a tick-by-tick basis. During this time window, the average of both the underlying index (UI) and the Leveraged / Short (IV) index are calculated. The two averages then substitute respectively UI_T and IV_T in the index calculation formula.

The respective trigger values (x) are:

Index	**Trigger value**
EURO iSTOXX 50 Daily Leverage	x = -25,00%
EURO iSTOXX 50 Daily Short	x = 50,00%

Over the course of the 10 minute period in which the average is determined, the index is not disseminated. The index dissemination ends 5 minutes after the trigger event and is resumed with an index level equal to the determined average 15 minutes after the trigger event.
Should the intraday rebalancing be triggered less than 15 minutes prior to the end of the index calculation day, the regular overnight rebalancing is carried out.
If the strategy index reaches a value of 0 or below over the course of the 15 minutes, the index is set to a value of 0 and its calculation / dissemination is discontinued

30.1.4. REVERSE SPLIT

If the closing value of a daily leverage or daily short index drops below 100 index points, a reverse split is carried out. The affected leverage or short index is multiplied with a factor of 1000.
The reverse split is carried out based on the index close ten trading days after the index initially dropped below a closing value of 100 points, notwithstanding whether the index rises above a level of 100 points in the meantime.

30.1.5. TRADING SUSPENSION

The EURO iSTOXX 50 Daily Leverage and Short indices are calculated on the same days and during the same time as the underlying EURO STOXX 50® Index is calculated.

If there is suspension of the underlying index, the leveraged and short indices will be calculated with the latest prices available.

31. EURO iSTOXX 50 ESG FOCUS INDEX

31.1. EURO iSTOXX 50 ESG FOCUS INDEX

31.1.1. OVERVIEW

The EURO iSTOXX 50 ESG Focus Index tracks the composition of the EURO STOXX 50® Index and reweights its constituents according to a pre-defined weighting scheme that allocates a higher weight to companies that rank highest in Environmental, Social and Governance areas, based on ESG indicators provided by Sustainalytics.

Universe: The index universe is defined by the EURO STOXX 50® Index.

Weighting scheme: The index is price-weighted with a weighting factor determined according to the ESG Overall Score rank.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

31.1.2. INDEX REVIEW

Composition list: The review cutoff date of the index is the last dissemination day of the month preceding the review date. The index is reviewed in line with the EURO STOXX 50®, i.e. the components of the EURO STOXX 50® Index, effective on the following review date, constitute the EURO iSTOXX 50 ESG Focus Index's composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review effective date is the dissemination day following the third Friday of each review month.

Weighting cap factors: At each cutoff date, the components of the index are sorted in descending order according to their ESG Overall Score and they are divided into 5 groups of 10 stocks, according to their ranking order. If a company is non-compliant based on Sustainalytics Global Standards Screening (GSS) assessment, or associated with activities involving Controversial Weapons, it is attributed an ESG overall score of 0 instead. In case two companies have identical ESG Overall Scores, priority is given to the one whose free-float market capitalization is the highest. For more information on the ESG approach, please consult the STOXX ESG Index Methodology guide[40].

[40] https://www.stoxx.com/document/Indices/Common/Indexguide/stoxx_esg_guide.pdf

31. EURO iSTOXX 50 ESG FOCUS INDEX

Each constituent is assigned a specific weight as described in the following table:

From rank	To rank	Weight
1	10	3.5%
11	20	2.5%
21	30	2.0%
31	40	1.5%
41	50	0.5%

Weighting factor = weight * (1,000,000,000 / closing price of the stock in EUR), rounded to integers.

The weighting factors are calculated based on the closing prices of the Thursday prior to the second Friday of the review month.

Derived indices: The EURO iSTOXX 50 ESG Focus Gross Return Index serves as input for the EURO iSTOXX 50 ESG Focus GR Decrement 5% Index (section 9.14)

31.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spun-off stocks are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX Calculation Guide available on stoxx.com.

32. EURO iSTOXX 25 CHALLENGERS EQUAL WEIGHT

32.1. EURO iSTOXX 25 CHALLENGERS EQUAL WEIGHT INDEX

32.1.1. OVERVIEW

The EURO iSTOXX 25 Challengers Equal Weight Index represents the performance of the 25 smallest companies of the EURO STOXX 50 Index based on free-float market capitalization. The index is weighted equally and reviewed quarterly.

Universe:
The universe is defined by the parent index, the EURO STOXX 50 Index

Weighting scheme:
The index is price-weighted with weighting factors to achieve equal-weight

Base values and dates:
100 on March 17, 2006

Index types and currencies:
Price, net return and gross return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website[41]. Customized solutions can be provided upon request.

32.1.2. INDEX REVIEW

Composition list:
The smallest 25 stocks from the final composition list of the EURO STOXX 50, based on free float market capitalization are selected for final index composition.

Review frequency:
The index is reviewed quarterly in March, June, September and December. The implementation of the review is conducted after the close of the third Friday of the respective review month and becomes effective on the next index dissemination day following the implementation day. The review cut-off date for the underlying data is the last trading day of the month preceding the review month.

Weighting and capping factors:
All components are equal-weighted on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Weighting cap factor = (100,000,000,000 / closing price of the stock in EUR) and rounded to integers.

[41] http://www.STOXX.com/download/indices/vendor_codes.xls

32. EURO iSTOXX 25 CHALLENGERS EQUAL WEIGHT

32.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast entry: Not Applicable.

Fast Exit: Not Applicable.

Spin-offs:
Spin-off companies are not permanently added to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

33. EURO iSTOXX NEXT 30

33.1. EURO iSTOXX NEXT 30 INDEX

33.1.1. OVERVIEW

The EURO iSTOXX Next 30 Index is a representation of liquid and large companies belonging to the Eurozone that are not part of the EURO STOXX 50. This index represents the performance of the next 30 components from the EURO STOXX universe based on free-float market capitalization, after the exclusion of the current components of the EURO STOXX 50.

Universe:
The universe is defined as the composition of the EURO STOXX Index on quarterly index review effective date.

Weighting scheme:
The index is price-weighted with weighting factors to achieve equal-weight.

Base values and dates:
The following base values and dates apply: 100 on September 20, 2002

For a complete list please consult the data vendor code sheet on the website[42]. Customized solutions can be provided upon request.

Index types and currencies:
Price, net and gross return in EUR and USD.

Dissemination calendar:
STOXX Europe calendar

33.1.1. INDEX REVIEW

Selection list:
The selection list is obtained by considering all stocks from the universe whose 3-month average daily trading value (ADTV) is at least EUR 35 million.
In case after applying the ADTV filter there are less than 30 securities available for selection, then all of them become part of the index. The remaining securities to reach the target of 30 components are selected by reducing the ADTV filter stepwise by 10% and ranking by free float market capitalisation the eligible securities.
In addition, all components of the EURO STOXX 50 Index that would become effective on the review effective date would also be eliminated.

Composition list:
The largest 30 stocks on the selection list, based on free float market capitalization are selected for final index composition.

[42] http://www.STOXX.com/download/indices/vendor_codes.xls

33. EURO iSTOXX NEXT 30

Review frequency:
The index is reviewed quarterly in March, June, September and December, in line with the parent index. The implementation of the review is conducted after the close of the third Friday of the respective review month and becomes effective on the next index dissemination day.
The review cut-off date for the underlying data is the last trading day of the month preceding the review month.

Weighting cap factors:
The components are weighted equally on a quarterly basis. The weightings are published on Friday five trading days prior to quarterly review implementation using Thursday's closing prices.

33.1.2. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable.

Fast entry: Not applicable.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

34. iSTOXX EUROPEAN 100 INDICES

34.1. iSTOXX EUROPEAN 100 COUNTRY SUBINDICES

34.1.1. OVERVIEW

The iSTOXX European 100 Country Subindices comprise the iSTOXX UK 35 and iSTOXX Switzerland 15 indices.
The constituents for the iSTOXX UK 35 and iSTOXX Switzerland 15 indices are selected from the STOXX Europe Total Market Index. The largest companies in terms of free float market capitalization are selected in order to achieve the targeted fixed number of components. The constituents of the indices are weighted accordingly to their free-float market capitalization.

Universe:
The index universe is the STOXX Europe Total Market Index. Secondary lines are excluded from the universe.

Weighting scheme:
The indices are weighted according to their free-float Market Capitalization

Base values and dates:
100 on March 16th, 2007

For a complete list please consult the data vendor code sheet on the website[43]. Customized solutions can be provided upon request.

Index types and currencies:
Price, net return and gross return in EUR, USD and native currency (GBP for the iSTOXX UK 35 and CHF for the iSTOXX Switzerland 15)

34.1.2. INDEX REVIEW

Composition list:
The largest companies in terms of Free-Float Market capitalization in the STOXX Europe Total Market index in the respective country are selected:

Index Name	Target number of components	Country	Native Currency
iSTOXX UK 35	35	UK	GBP
iSTOXX Switzerland 15	15	CH	CHF

Review frequency:
The indices are reviewed quarterly, on the 3rd Friday of March, June, September and December, in line with the parent index Europe Total Market and the new composition is effective on the following Monday. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

[43] http://www.STOXX.com/download/indices/vendor_codes.xls

34. iSTOXX EUROPEAN 100 INDICES

Weighting cap factors:
The indices are free-float market capitalization weighted.

34.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the indices.

Mergers and takeovers: Standard STOXX process

34. iSTOXX EUROPEAN 100 INDICES

34.2. iSTOXX EUROPEAN 100 INDEX

34.2.1. INDEX CONCEPT

The iSTOXX European 100 index allocates weights according to a pre-defined scheme to three underlying equity indices, which are covering the main economies of the European Continent.

Rebalancing:
The index is rebalanced on a quarterly basis, after the closing of the 3rd Friday of March, June, September and December.

Index types and currencies:
Price, Net Return and Gross Return in EUR and USD.

Base values and dates:
1000 on March 16th, 2007

Dissemination calendar:
Intersection of the following dissemination calendars: STOXX Europe Regional calendar, STOXX UK Country calendar, STOXX Switzerland Country calendar

34.2.2. CALCULATIONS

The index values are calculated as following:

$$IV_t = IV_{reb} \times \sum_{i=1}^{3} w_{reb,i} \times \frac{U_{t,i}}{U_{reb,i}}$$

Where

$w_{reb,i}$	Target weight of sub-index *i* at rebalancing date
$U_{reb,i}$	Close value of sub-index *i* at rebalancing date
$U_{t,i}$	Value of sub-index *i* today at time *t*
IV_t	Index value today at time *t*
IV_{reb}	Index close value at rebalancing date
Reb	Rebalancing date

In order to calculate a specific return and currency version of the index, the corresponding return and currency versions of the underlying indices are used.

On each rebalancing date, specific weights are allocated to each underlying index according to the scheme displayed below:

i	**Sub-Index name**	**Weight ($w_{reb,i}$)**
1	EURO STOXX 50 Index	50%
2	iSTOXX UK 35 Index	35%
3	iSTOXX Switzerland 15 Index	15%

34. iSTOXX EUROPEAN 100 INDICES

Derived Indices: The iSTOXX European 100 Index serves as input for the iSTOXX European 100 GR Decrement 50 Index (section 9.17)

35. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

35.1. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

35.1.1. OVERVIEW

Derived from the STOXX® Developed Markets Total Market Index, the iSTOXX Developed Markets B.R.AI.N. Index is comprised of companies that are exposed to four megatrends that are expected to change the world as we know it: Biotechnology (B), Robotics (R), Artificial Intelligence (AI) and Nanotechnology (N).

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial positive exposure to the B.R.AI.N. themes.

Universe: The index universe is defined by the STOXX® Developed Markets Total Market index.

Weighting scheme: The index is price-weighted with a weighting factor proportional to free-float market capitalization and aggregate revenue exposure to the four B.R.AI.N. sectors.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net Return and Gross Return; in EUR, USD and CAD

Dissemination calendar: STOXX Europe calendar

35.1.2. INDEX REVIEW

Selection list: For each of the four themes, the companies in the index universe are screened for all of the following criteria (applied in the order in which they are listed), and four separate clusters with eligible securities are created:

» Minimum liquidity: 3-month median daily trading value (MDTV) greater than 1,000,000 EUR
» Revenues: more than 50% revenues generated within the aggregate of the RBICS sectors associated to the specific theme (see table below).
» Multiple share lines: in case a company is present with multiple listings in a specific thematic cluster, only the most liquid share line will be retained.

Biotechnology, Robotics, Artificial Intelligence and Nanotechnology sectors, for the purposes of constituent clustering are defined as follows:

Nr.	Biotechnology
01	Allergies Biopharmaceuticals
02	Analytical and Bioanalytical Services
03	Anesthesia Biopharmaceuticals
04	Autoimmune Disorders Biopharmaceuticals
05	Bioanalytical Consumables
06	Biodiesel Fuel Manufacturing
07	Biological Specimen Storage
08	Biologics OEMs

Nr.	Robotics
01	3D Modeling/Rapid Prototyping Automation Providers
02	Autonomous Control Ship Builders
03	Autonomous Control Software
04	Autonomous Control Transit Production
05	Autonomous Control Truck Production
06	Computer Aided Design (CAD) Software
07	Diversified Semiconductors
08	Drone Manufacturers

35. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

09	Biotechnology and Genomics (GMO/Hybrids) Products
10	Breast Cancer Biopharmaceuticals
11	Cardiovascular System Biopharmaceuticals
12	Child Birth and Contraception Biopharmaceuticals
13	Clinical Limited Service CROs
14	Dermatology Biopharmaceuticals
15	Digestive System Biopharmaceuticals
16	Diversified Bioanalytical Instruments
17	Diversified Biopharmaceuticals
18	Diversified Contract Manufacturing Organizations
19	Diversified Development and Manufacturing Services
20	Drug Delivery Technology Development
21	Drug Lead Discovery, Validation and Optimization
22	Drug Target Discovery and Validation
23	Ethanol Fuel Manufacturing
24	Full Service CROs
25	Gastrointestinal Tract Biopharmaceuticals
26	General Infectious Diseases Biopharmaceuticals
27	General Support Activity Providers for Agriculture
28	Genetic Molecular Diagnostic Test Kits
29	Heart Disorders Biopharmaceuticals
30	Hematological Oncology Biopharmaceuticals
31	Hematology Biopharmaceuticals
32	Immune Deficiency Disorders Biopharmaceuticals
33	Intermediary Metabolism Biopharmaceuticals
34	Liver Disorders Biopharmaceuticals
35	Lower Respiratory Biopharmaceuticals
36	Multi-Type Drug Discovery Services
37	Musculoskeletal System Biopharmaceuticals
38	Narcotics Pain Management Biopharmaceuticals
39	Neurology Biopharmaceuticals
40	Non-Narcotics Pain Management Biopharmaceuticals
41	Ophthalmology Biopharmaceuticals
42	Other Alternative Fuel Manufacturers
43	Other Bacterial Infections Biopharmaceuticals
44	Other Biopharmaceutical OEMs
45	Other Endocrinology/Metabolism Biopharmaceuticals
46	Other Gynecology Biopharmaceuticals
47	Other Immunology Biopharmaceuticals
48	Other Oncology Biopharmaceuticals
49	Other Pain Management Biopharmaceuticals
50	Other Respiratory System Biopharmaceuticals
51	Pituitary Gland Disorders Biopharmaceuticals
52	Scientific Analytical Instruments
53	Surgical Biopharmaceuticals
54	Thermal and Chemical Processing Machinery Makers
55	Toxicology Biopharmaceuticals
56	Transplantation Biopharmaceuticals

09	Drone Parts Manufacturers
10	Global Positioning Systems (GPS) Manufacturing
11	Household Robots
12	Industrial Robots and Robotic Assembly Line Makers
13	Lasers and Optical Instrument Manufacturing
14	Machine Vision and Quality Control Manufacturing
15	Microprocessor (MPU) Semiconductors
16	Monitoring and Control Sensor/Instrument Products
17	Motion Control and Precision Motors Manufacturing
18	Networking Semiconductors
19	Other Communications Semiconductors
20	Other Electric Motors and Motion Control Products
21	Other Processor Semiconductors
22	Other Programmable Logic and ASIC Semiconductors
23	Programmable Logic Device Semiconductors
24	Surgical Robotic Systems
25	Vehicle Autonomous Control Electronics Makers
26	Vehicle Autonomous Control Software

Nr.	**Artificial Intelligence**
01	Autonomous Control Software
02	Business Intelligence Software
03	Colocation and Data Center Services
04	Communication and Collaboration Content Sites
05	Data Storage Drives and Peripherals
06	Data Storage Media
07	Data Transport Carrier Services
08	Disk Storage Systems
09	Flash Memory Semiconductors
10	Imaging Laboratories
11	Information Storage Systems
12	Machine Vision and Quality Control Manufacturing
13	Microprocessor (MPU) Semiconductors
14	Multi-Type Data Storage Hardware Makers
15	Networking Semiconductors
16	Other Memory Semiconductors
17	Other Nonvolatile Memory Semiconductors
18	Other Processor Semiconductors
19	Other Programmable Logic and ASIC Semiconductors
20	Programmable Logic Device Semiconductors
21	Vehicle Autonomous Control Software
22	Video Multimedia Semiconductors
23	Volatile Memory Semiconductors
24	Web Navigation Sites and Software
25	Web Search Sites and Software

Nr.	**Nanotechnology**
01	Diversified Bioanalytical Instruments

35. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

57	Type 1 Diabetes Biopharmaceuticals	02	Industrial and Construction Additive Manufacturing
58	Type 2 Diabetes Biopharmaceuticals	03	Microprocessor (MPU) Semiconductors
59	Urology Biopharmaceuticals	04	Nanotechnology Materials Manufacturing
60	Vascular Disorders Biopharmaceuticals	05	Other Programmable Logic and ASIC Semiconductors
61	Viral Biopharmaceuticals	06	Semiconductor Foundry Services
62	Weight Management Biopharmaceuticals	07	Water Treatment Agents Manufacturing

An iterative selection process takes place to calculate the aggregate exposure of each company to all four themes separately and ultimately create four separate theme-specific selection lists which include 20 securities each that display the highest revenue exposure to the sectors underlying the corresponding theme.

The aggregated exposure (ae) of a company i to a specific theme is calculated as:

$$\mathrm{ae}_i^j = \sum_{k=1}^{n} \mathrm{exposure}_{i,k}$$

Where:
j = theme (Biotechnology, Robotics, Artificial Intelligence or Nanotechnology)
n = sectors from table above corresponding to theme j
$\mathrm{exposure}_{i,k}$ = revenue exposure of company i to sector k

Within each thematic cluster, all companies are ranked in descending order by their aggregate revenue exposure to the sectors linked to the corresponding theme, and the 20 companies with the highest aggregate exposure in each compose that theme's selection list. If two companies have the same revenue exposure to a specific theme, priority goes to the one with the highest free-float market capitalization. If there are less than 20 eligible companies for a theme, then no ranking process takes place for that thematic cluster, and all the companies compose that theme's selection list.

Finally, the four theme-specific selection lists are combined to derive the final index selection list, and the following condition applies: if a company falls in more than one theme-specific selection lists, that company is only considered once for selection in the final index, therefore reducing the total number of components accordingly (e.g. if 3 companies rank among the top 20 in both the Artificial Intelligence and the Robotics selection lists, then these companies are taken into account only once, and the total number of components in the index is reduced to 77).

Review frequency: The index composition is reviewed annually in June. The review cut-off date is the last trading day of the preceding May. The index Weighting Cap Factors are recalculated quarterly in March, June, September and December.

Weighting cap factors: Index weighting cap factors are recalculated quarterly in March, June, September and December. They are published on the second Friday of each of those months and based on the stocks' prices of the preceding Thursday.

Target weight calculation:

$$w_i = \frac{\mathrm{ae}_i \cdot \mathrm{ffmcap}_i}{\sum_{j \text{ in comp.list}}^{m} \mathrm{ae}_j \cdot \mathrm{ffmcap}_j}$$

35. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

ae_i = aggregate revenue exposure of company i to the B.R.AI.N. sectors
$ffmcap_i$ = free float market capitalization of company i, calculated using close price in EUR on the Thursday preceding the second Friday of the review month
m = number of companies in the final index

Where ae_i is calculated as:

$$ae_i^{B.R.AI.N.} = \sum_{k=1}^{n} exposure_{i,k}$$

And:
n = all sectors deriving from the union of the four separate sector lists of each of the B.R.AI.N themes
$exposure_{i,k}$ = revenue exposure of company i to sector k, as of the most recent review cut-off date

Capped weight calculation: The capped weights (cwi) are derived from the target weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their weight in the index.

In the event that 19 or fewer securities are included in the index, the capped weight calculation above will not hold and the weight for all securities will be set to 1/n, where n is the number of securities included in the index.

Weight factor calculation:

$$wcf_i = \frac{cw_i}{p_i} \times 10{,}000{,}000{,}000$$

rounded to the closest integer and where:
cw_i = capped weight of company i as described above
p_i= close price in EUR of company i on the Thursday preceding the second Friday of the review month
wcf_i= weighting cap factor of company i

35.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spun-off companies are not added permanently to the indices.

35. iSTOXX DEVELOPED MARKETS B.R.AI.N. INDEX

Mergers and takeovers: Standard STOXX proces

36. EURO iSTOXX 50 MONTHLY KRW HEDGED INDEX

36.1. EURO iSTOXX 50 MONTHLY KRW HEDGED

36.1.1. OVERVIEW

The EURO iSTOXX 50 Monthly KRW Hedged index replicates the returns of the EURO STOXX 50 index with a monthly currency hedge where the reset of the hedge notional occurs on a monthly basis. At each rebalancing date, the index will enter into a one-month forward contract to sell USDKRW and buy USDEUR at a predefined exchange rate.

Base values and dates:

- Base date: 30 September 2009
- Base value: 1000
- Underlying Index: EURO STOXX 50 Price EUR
- Index Type: Price
- Index Currency: KRW
- Dissemination calendar: STOXX Europe calendar

36.1.2. CALCULATION

$$H_IDX_t = H_IDX_{t_r} \cdot \left[\frac{UH_IDX_t}{UH_IDX_{t_r}} + \frac{H_IDX_{t_r-1}}{H_IDX_{t_r}} \cdot HR_{t_r} \cdot \left(\frac{FX_{t_r-1}}{FF_{t_r}} - \frac{FX_{t_r-1}}{IFF_t} \right) \right]$$

Where

H_IDX	hedged index for day t
UH_IDX_t	unhedged reference index in KRW for day t, equivalent to the underlying index level for day t divided by FX_t
t_r	last calculation day of preceding month (reset date)
t	day of index calculation
T	day on the last calculation date of the month
HR	hedge ratio of currency hedge, $HR_{t_r} = 100\%$
FX_t	$1/(EURUSD_t \cdot USDKRW_t)$ If t is a Korea Bank holiday, FX_t will use the intraday spot rate from the dissemination date immediately preceding t, and the date is not a Korean Bank holiday
FF_t	$1/(EURUSD_1M_Fwd_t \cdot USDKRW_1M_Fwd_t)$ If t is a Korea Bank holiday, FF_t will use the intraday forward rate from the dissemination date immediately preceding t, and the date is not a Korean Bank holiday
IFF_t	the interpolated forward rate for day t, expressed as units of EUR per unit of KRW, $FX_t + (1 - {}^{t}/_{T}) \cdot (FF_t - FX_t)$

36. EURO iSTOXX 50 MONTHLY KRW HEDGED INDEX

$EURUSD_t$	units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
$USDKRW_t$	units of KRW per unit USD, obtained using WM Fixing of 6AM GMT
$EURUSD_1M_Fwd_t$	1-month forward currency rate, expressed as units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
$USDKRW_1M_Fwd_t$	1-month NDF forward currency rate, expressed as units of KRW per unit USD, obtained using WM Fixing of 6AM GMT

37. iSTOXX YEWNO DEVELOPED MARKETS BLOCKCHAIN INDEX

37.1. iSTOXX YEWNO DEVELOPED MARKETS BLOCKCHAIN INDEX

37.1.1. OVERVIEW

The iSTOXX® Yewno Developed Markets Blockchain Index is comprised of companies from a wide range of industries that invest heavily in the development of technologies related to blockchain. These companies are therefore considered to be well-positioned to benefit from the increased adoption of blockchain.

STOXX teamed up with an award-winning AI company, Yewno, whose proprietary AI algorithms, which include machine learning, computational linguistics and knowledge graph techniques, are used to identify the index constituents from the universe of the STOXX® Developed Markets Total Market Index. The key criterion used in the selection process is patent filings related to Blockchain IP, thereby identifying blockchain innovators as well as blockchain adopters.

Universe: The STOXX Developed Total Market index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is price-weighted with a weighting factor proportional to free-float market capitalization and Blockchain IP score.

Base values and dates: 100 on Mar 18, 2013

Index types and currencies: Price, Net Return, Gross Return; in EUR, USD and CAD

Dissemination calendar: STOXX Europe calendar

37.1.2. INDEX REVIEW

For the purposes of the iSTOXX Yewno Developed Markets Blockchain Index, Yewno Inc. calculates two metrics relevant to a company's involvement in the field of Blockchain:

Blockchain Intellectual Property Exposure is defined as the ratio of the number of Blockchain patents awarded to a company over the most recent 3-year period to the total number of patents awarded to that company over the same period. It provides an indication of the importance of Blockchain research and applications to the overall activities of each company.

Blockchain Contribution is defined as the ratio of the number of Blockchain patents awarded to a company over the most recent 3-year period to the total number of Blockchain patents awarded to all companies in the index Universe. It provides an indication of the importance of each company's Blockchain research and applications to the overall Blockchain-related activities of other companies in the index Universe.

The companies in the iSTOXX Yewno Developed Markets Blockchain Index universe are screened for all of the following criteria (in the order in which they are listed below):

37. iSTOXX YEWNO DEVELOPED MARKETS BLOCKCHAIN INDEX

» **Exposure:** Only companies with positive Blockchain Intellectual Property Exposure and Blockchain Contribution are considered as eligible for selection.
» **Minimum liquidity:** 3-month average daily trading value (ADTV) greater than 1,000,000 EUR
» **Multiple share lines:** in case a company is present with multiple listings in an index, only the most liquid share line will be retained.

All remaining companies constitute the eligible universe.

Selection List: A $\text{blockchain score}_i$ is calculated for each company i in the eligible universe, as follows:

$$\text{blockchain score}_i = \text{blockchain}_i^{\text{IPexposure}} * \text{blockchain}_i^{\text{contribution}}$$

Where:
IPexposure = Blockchain Intellectual Property Exposure for company i as defined above
contribution = Blockchain Contribution for company i as defined above

All companies are ranked in descending order based on their blockchain score, and the top 100 companies are selected for inclusion in the index. If two companies have the same blockchain score, priority goes to the one with the highest free-float market capitalization.

In the event that fewer than 100 securities constitute the eligible universe, then all of them are selected for inclusion in the index.

Review frequency: Each index is reviewed quarterly in March, June, September and December. No further capping applies between reviews.

Weighting cap factors: Index weighting cap factors are calculated quarterly in March, June, September and December. They are published on the second Friday of each of those months and based on the stocks' prices of the preceding Thursday.

Target weight calculation:

$$w_i = \frac{\text{blockchain score}_i \cdot \text{ffmcap}_i}{\sum_{j \text{ in comp.list}}^{m} \text{blockchain score}_j \cdot \text{ffmcap}_j}$$

$\text{blockchain score}_i$ = Blockchain IP score of company i
ffmcap_i = free float market capitalization of company i, calculated using close price in EUR on the Thursday preceding the second Friday of the review month
m = number of companies in the final index

Capped weight calculation: The capped weights (cw_i) derive from the target weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their weight in the index.

37. iSTOXX YEWNO DEVELOPED MARKETS BLOCKCHAIN INDEX

In the event that 19 or fewer securities are included in the index, the capped weight calculation above will not hold and the weight for all securities will be set according to the target weight calculation.

Weight factor calculation:

$$wcf_i = \frac{cw_i}{p_i} \times 10{,}000{,}000{,}000$$

rounded to the closest integer and where:
cw_i = capped weight of company i as described above
p_i = close price in EUR of company i on the Thursday preceding the second Friday of the review month
wcf_i = weighting cap factor of company i

37.1.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Developed & Emerging TMI are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

38. iSTOXX EUROPE ESG CLIMATE AWARENESS SELECT 50 INDEX

38.1. iSTOXX EUROPE ESG CLIMATE AWARENESS SELECT 50 INDEX

38.1.1. OVERVIEW

The index tracks the performance of 50 liquid stocks with low volatility and high dividend yield. The components are selected from a pool of companies that have considered the implications of climate change for, and on, their businesses, are taking initiatives in their use of renewable energy and are classed as leading companies with regard to Environmental, Social and Governance criteria.

Universe:
The STOXX® Europe Climate Awareness Ex Global Compact Controversial Weapons & Tobacco Index, as observed on the review effective date defines the index universe.

Weighting scheme:
The index is price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Dec 24, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

38.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index, and upon this date, all stocks in the base universe are screened for the following indicators and a company must fulfil the following conditions in order to be included in the selection list:

i. Carbon Intensity[44] that does not fall in the top 10% (with the highest emissions) of the companies in the parent index
ii. 12-month historical dividend yield
iii. 3-month and 12-month historical volatility in EUR
iv. 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 7 million EUR
v. Environmental (E), Social (S) and Governance (G) scores equal to or exceeding 50, as derived from Sustainalytics' transparent ESG performance rating model
vi. No suspension from trading for more than 10% of the total trading days in the STOXX calendar in the previous 12 months[45]

[44] Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million)

[45] Min Number of Price Observations$_{period}$ = Number of Trading Days$_{period}$ * 0.9

38. iSTOXX EUROPE ESG CLIMATE AWARENESS SELECT 50 INDEX

vii. Scores on 2 Environmental Key Performance Indicators from Sustainalytics' model that specifically relate to the commitment of companies to transition to renewable energy consumption, and their progress towards that goal. The two indicators are defined as follows:
   a. E.1.8 Renewable Energy Programmes: an assessment of whether the company has taken initiatives to increase the use of renewable energy.
   b. E.1.11 Renewable Energy Use: an assessment of the company's renewable energy consumption.
      - Either "Renewable Energy Programmes" must have a score exceeding 0[46], or "Renewable Energy Use" a score exceeding 20[47].

Should any of the above fields iii and iv have missing information for a stock, then that company is removed from the base universe. If the 12-month historical dividend-yield (ii), "Renewable Energy Programmes" (vii.a.) or the "Renewable Energy Use" (vii.b.) indicators for a company have missing information, then a score of zero (0) is assigned.

Companies fulfilling all of the above conditions constitute the selection list.

Composition list:

The following Equal Strength Ratio is calculated:

$$ESR = \sqrt{\frac{50}{N}}$$

where,

N Number of stocks in the selection list

All stocks from the selection list are sorted in descending order in terms of dividend yield and companies are selected for the next step of the selection process based on the ESR:

$$\text{number of companies to select (Dividend screen)} = \text{round down of (ESR} * \text{N)}$$

In case of identical dividend yields, priority is assigned to the stock with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

All remaining stocks are ranked in ascending order in terms of volatility, as defined above. The top 50 stocks (lowest volatility) are selected to compose the index, under the constraint of having a maximum of 8 companies coming from a single ICB industry. If the composition list cannot be completed with 50 names, the industry constraint is relaxed by allowing an additional company per industry until the point where the 50 components have been selected in the index.

[46] This translates to a company having at a least some activities or a formal programme that display commitment to increase the use of renewable energy

[47] Correspondingly, this means that at least 5% of the company's primary energy use comes from renewable energy sources

38. iSTOXX EUROPE ESG CLIMATE AWARENESS SELECT 50 INDEX

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of February, May, August and November respectively.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{50} \frac{1}{\sigma_j}}$$

where,

w_i	target weight of component i
σ_i	maximum between the 3-month and 12-month historical volatility of component i as of review cut-off date, based on prices in EUR

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

38.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

39. iSTOXX ASIA/PACIFIC AND SOUTH KOREA TOTAL MARKET INDEX

39.1. iSTOXX ASIA/PACIFIC AND SOUTH KOREA TOTAL MARKET INDEX

39.1.1. OVERVIEW

The iSTOXX Asia/Pacific and South Korea Total Market index is an aggregate of the respective STOXX Total Market country indices. The index aims to provide a broad representation of the targeted region.

Universe: The respective STOXX Total Market country indices.

Weighting scheme: The indices are weighted according to free-float market capitalization: No weighting cap factors are applied.

Base values and dates: 100 on January 31, 2011

Index types and currencies: Price, net return, gross return in EUR and USD.

Dissemination calendar: STOXX Global calendar

39.1.2. INDEX REVIEW

Component selection: The indices consist of the components of the relevant Total Market Country indices.

Review frequency: The reviews are conducted on a quarterly basis together with the STOXX Total Market Country indices.

39.1.3. ONGOING MAINTENANCE

Replacements: In line with the STOXX Total Market country indices, deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are added permanently if qualifying for the STOXX Total Market indices as of the latest quarterly review list in terms of free-float market capitalization.

40. EURO iSTOXX 50 COLLAR INDEX

40.1. EURO iSTOXX 50 COLLAR INDEX

40.1.1. INDEX CONCEPT

The EURO iSTOXX 50 Collar index aims to replicate a hedging strategy on the EURO STOXX 50 using an Option Collar. The strategy consists in purchasing daily a fraction of 2 Quarterly Put Options, with expiry in the next 12 months and next expiry date afterwards, and selling daily a fraction of 2 to 6 Monthly Call Options, with expiry in the next 1 and 2 months, while holding a long position in the underlying Euro Stoxx 50 index.
Each Option remains in the Option Portfolio till its expiry. The quantity of Options to be daily bought and sold is balanced in order to be in average long 1 Put and short 1 Call. All Options are out-of-the-money, with the strike level for Put Options set to 90% of the Euro Stoxx 50 level. The Call Options position is split between options with strike 102.5% and 104.5% of the Euro Stoxx 50 level.
This Option Collar aims to implement a defensive strategy to smooth down the Euro Stoxx 50 and reduce the volatility. It aims to provide a long term downside protection, thanks to the long position on Put Options, by forgoing large gains, due to the short position on Call Options.

Index types and currencies: Price EUR

Base values and dates: 100 on 04.01.2016

Initial Option Entry Date: 02.01.2015

Index dissemination calendar: STOXX Eurex calendar

40.1.2. INPUT DATA

During the calculation of the EURO iSTOXX 50 Collar Index, the following end of day data is used via snapshots:

Code	Description
SX5E	Euro Stoxx 50 EUR Price index
SX5T	Euro Stoxx 50 EUR Net Return index
OESX	Settlement price of quarterly EURO STOXX 50 options

40.1.3. PORTFOLIO DEFINITION

On each index dissemination day, a minimum of four and a maximum of 8 options are identified: 2 put options and between one and six call options:

- The first put option matures in one year time from the Entry Date, the second put option on the first quarterly expiry thereafter
- Call options mature in one and two months from the Entry Date. For each maturity, one to three options are chosen, depending on their strikes. Since the targeted percent call option strikes can be close to each other from one day to the other, the amount of an option may be increased to reflect the additional amount required for that day.

The Notional Option Table in section 40.1.6. describes the logic according to which the options are picked.

Out of these options, if one or more are not part of the portfolio, then they're added to it with their respective Option Quantity value. If one or more options are already part of the portfolio, then the Option Quantity for those options is incremented in order to fulfil the daily strategy requirement. This can happen if the EURO STOXX 50 value fluctuates around the same range of values in a short period of time.

The Options which are going to compose the portfolio are chosen based on the definitions given in the Notional Option Table in section 40.1.6:

- Quarterly put options and monthly call options, with 1 to 3 call options for every put option;
- The put option can be Shorter Dated or Longer Dated;
- The call options can be 1-month or 2-month dated;
- For each Option Type and Option Expiry Date, the option whose strike is closest to the Reference Option Strike is selected (no preferred side). If two listed option strikes are equally close to the Reference Option Strike, then the strike which is closer to the close value of the EURO STOXX 50 on that index dissemination day will be selected. There is no constraint on the Option Strike to be selected, as long as it is the closest to the Reference Option Strike.

All Options will remain part of the portfolio until Expiry or they are delisted.

For example, on October 2017, the 4th nearby quarterly options expiry date would be September 2018 (1st on Dec 2017, 2nd on Mar 2018, 3rd on Jun 2018).

Let's define:
- *Entry Date*: Each index dissemination day from the Initial Option Entry Date on which there is at least one Option entering the portfolio.

Three baskets of options are created:
- $Entry_t$ is the Entry Universe with respect to the index dissemination day *t*: all options for which the Entry Date is on day *t*.
- $Expiry_t$ is the Expiry Universe with respect to the index dissemination day *t*: all options for which the Expiry Date is on *t*.
- $Hold_t$ is the Hold Universe with respect to the index dissemination day *t*: all options for which both the following are valid:
    - The Entry Date is strictly before *t*,
    - The Exit Date is strictly after *t*

40.1.4. CALCULATIONS

40.1.4.1. OPTION QUANTITY

First step in the index calculation is to calculate for every option entering the portfolio the corresponding Option Quantity.

The Option Quantity represents the fraction of option which is part of the portfolio on any given day. It is a value defined at Entry Day, i.e. when the option first enters the portfolio. The Option Quantity for a specific option can be incremented on a daily basis, depending on whether that option is eligible to enter the portfolio on that day again. The value is calculated by rescaling the Option Position by the number of days in the time period of the option life. In this context, the factor $RIDD_{i,t}/NIDD_i$ represents the percentage of the index dissemination days remaining before the end of the current period (i.e. end of the quarter or end of the month), rescaled then by $OD_i * NIDD_i$ which counts the remaining number of days before the option expiry. The Option Quantity is thus defined as:

$$q_i = \begin{cases} OP_i * \frac{RIDD_i}{NIDD_i} * \frac{1}{OD_i * NIDD_i} & \text{for Shorter Dated options} \\ OP_i * \left(1 - \frac{RIDD_i}{NIDD_i}\right) * \frac{1}{OD_i * NIDD_i} & \text{for Longer Dated options} \\ OP_i * \frac{1}{OD_i * NIDD_i} & \text{for 1-month and 2-months options} \end{cases}$$

Where, according to the Notional Option Table in section 40.1.6:

- OP_i is the Option Position for option *i*.
- OD_i is the Option Divisor for option *i*.
- $RIDD_i$ is the Remaining Number of Index Dissemination Days till next expiry excluded:
$$RIDD_i = [T_i^{Entry}, T_i^{Expiry})$$
- $NIDD_i$ is the Number of Index Dissemination Days:
$$NIDD_i = [T_i^{PrevExpiry}, T_i^{Expiry})$$

Where:

- $T_i^{Expiry} = \begin{cases} \text{Immediately following 3rd Friday,} & \text{for Monthly Options} \\ \text{Immediately following 3rd Friday of March, June, Sep, Dec,} & \text{for Quarterly Options} \end{cases}$
strictly after the current index dissemination day
- $T_i^{PrevExpiry}$ is the immediately preceding expiry before or on the current index dissemination day

40.1.4.2. OPTION ENTRY VALUE

The value of each option entering the portfolio is calculated as the settlement value of the option adjusted by transaction costs. The Entry Value of call options should be lower than the option value, since they are sold, hence transaction costs should be negative. On the other hand, the Entry Value for put options should be higher that the option value, since they are bought, hence the transaction costs should be positive.
The transaction costs for all options are capped to 30% of the option premium. In order to avoid selling call options at a negative premium, the Option Entry value has a floor of 0.1 EUR, which is the minimum price tick as per Eurex contract specification.

The Entry value in formula is thus defined as:

$$O_i^{Entry} = \begin{cases} O_{i,T_i^{Entry}} + \min\left(OTCR_i * S_{Entry}, 30\% * O_{i,T_i^{Entry}}\right) & \text{if } i \text{ is a Put Option} \\ \max\left[Tick\ Size, O_{i,T_i^{Entry}} - \min\left(OTCR_i * S_{Entry}, 30\% * O_{i,T_i^{Entry}}\right)\right] & \text{if } i \text{ is a Call Option} \end{cases}$$

where

- $OTCR_i$ is the Option Transaction Cost for Option *i* (as defined in section 40.1.5).
- S_{Entry} is the Euro Stoxx 50 close value at Entry Date.
- T_i^{Entry} is the Option Entry Date.
- $Tick\ Size$ is 0.10 EUR, the minimum tick size as specified by Eurex

40.1.4.3. OPTION PORTFOLIO LEVEL

The Option Portfolio Level is the current value of the Option portfolio and is defined as:

$$OPL_t = OPL_t^{MTM} + OPL_t^{DAILY_VARIATION}$$

Having:

- OPL_t^{MTM} the Mark-to-market value of the portfolio, calculated on each day t by multiplying the Option Quantity by the option settlement on such day:

$$OPL_t^{MTM} = \sum_{i \in Entry_t \cup Hold_t} q_i * O_{i,t}$$

- $OPL_t^{DAILY_VARIATION}$ is the daily variation in the option value and is calculated on each day t by considering all options entering the portfolio and all options expiring on such day, in a way similar to the Mark-to-market calculation. To be noted that by multiplying $q_i * \left(-O_i^{Entry}\right)$ the option transaction cost results always positive.

$$OPL_t^{DAILY_VARIATION} = \begin{cases} \sum_{i \in Entry_0} q_i * \left(-O_i^{Entry}\right) & t = 0 \\ OPL_{t-1}^{DAILY_VARIATION} + \sum_{i \in Entry_t} q_i * \left(-O_i^{Entry}\right) + \sum_{i \in Expiry_t} q_i * \left(+O_i^{Expiry}\right) & t > 0 \end{cases}$$

Where:

- $t = 0$ is the index base date, as defined in section 40.1.1
- q_i is the Option quantity for option *i*.
- $O_{i,t}$ is the value of the option *i* at time *t*. With respect to an option and an index dissemination day before its Expiry Date, it is the Option Settlement Value. With respect to an option on or after its Expiry Date, the Option Value is equal to the Option Expiry Value.

- O_i^{Expiry} is the Expiry value for Option *i*, defined as the Options Settlement Value on Expiry Date

40.1.4.4. INDEX VALUE CALCULATION

The daily return of the index is calculated as the daily return of the underlying Euro Stoxx 50, plus the dividend yield, plus the daily variation in the value of the option portfolio
In formula:

$$I_t = \begin{cases} 100 & t = 0 \\ I_{t-1} * \left(\frac{S_t + \Delta OPL_t}{S_{t-1}} + Div_t\right) & t > 0 \end{cases}$$

Where:

- $t = 0$ is the index base date, as defined in section 40.1.1
- S_t is the closing index value of Euro Stoxx 50 EUR Price index (symbol SX5E) at time *t*
- Div_t represents the net dividend yield earned on day *t* and is calculated as:
$$Div_t = \frac{SX5T_t}{SX5T_{t-1}} - \frac{SX5E_t}{SX5E_{t-1}}$$
where $SX5T_t$ is the closing index value of Euro Stoxx 50 EUR Net Return index.

- ΔOPL_t is the variation in the Option Portfolio Level on day *t* minus the cost of borrowing the money to implement the Option strategy on such day. In fact, the entire cash position available in the portfolio on day *t-1* is invested to purchase the stock basket corresponding to the Euro Stoxx 50, which would provide a return of $I_{t-1} * \left(\frac{S_t}{S_{t-1}} + Div_t\right)$. In order to implement the Option strategy on that day and get exposure to the variation in the Option Portfolio Level, we need to borrow the cash amount corresponding to the current value of the Option Portfolio, which is equal to OPL_{t-1}^{MTM} times the de-annualized risk-free rate used for borrowing.
In formula:
$$\Delta OPL_t = OPL_t - OPL_{t-1} - OPL_{t-1}^{MTM} * \frac{SGCPON_{t-1}}{100} * \frac{Act(t-1,t)}{360}$$
Where
  - $SGCPON_t$ is the STOXX GC Pooling EUR ON index value on day *t* as risk-free rate.
  - $Act(t-1,t)$ is the number of calendar days from but excluding date t-1 to and including date t.

40.1.5. TRANSACTION COSTS

Transaction costs depend on the implied volatility level as measured by the VSTOXX 30 day index:

40. EURO iSTOXX 50 COLLAR INDEX

Cost (bps)							
	Call Leg						Put Leg
Expiry	**1m**			**2m**			**12m**
Strike (as percent of the SX5E level)	**102.5**	**103**	**103.5**	**103.5**	**104**	**104.5**	**90**
VSTOXX < 12.5	3.5	3	2.5	5.5	5	4	15
12.5 ≤ VSTOXX < 20	6.5	6	5.5	9.5	9	8	22.5
20 ≤ VSTOXX < 30	9	9	8.5	13	12.5	12	32.5
VSTOXX ≥ 30	13.5	13.5	13	19	19	18.5	47.5

40.1.6. NOTIONAL OPTION TABLE

The Option Strike Percentage described in the table below are defined with respect to the index closing value on day t of EURO STOXX 50 Index (SX5E). Options entering the portfolio on any day t produce returns between day t and day t+1, while the corresponding transaction costs are included in the index close of day t. Since the options on any day t have to be bought before close, using the close value of EURO STOXX 50 generates a small gap in the replicability, which is generally accepted in the market, but makes the strategy more precise in terms of options selection.

Option Position	Option Type	Option Strike Percentage	Option Expiry Date	Option Divisor	Option Expiry Frequency
1 (Buy)	European Put	90%	Shorter Dated – Options with Expiry Date on March, June, September, December falling on or immediately before the day 12 months after the Entry Date	4	Quarterly
1 (Buy)	European Put	90%	Longer Dated – Options with Expiry Date on March, June, September, December falling immediately after the day 12 months after the Entry Date	4	Quarterly
-1/6 (Sell)	European Call	102.5%	1-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after 10 Index Dissemination Days from	1	Monthly

			such Index Dissemination Day		
-1/6 (Sell)	European Call	103%	1-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after 10 Index Dissemination Days from such Index Dissemination Day	1	Monthly
-1/6 (Sell)	European Call	103.5%	1-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after 10 Index Dissemination Days from such Index Dissemination Day	1	Monthly
-1/6 (Sell)	European Call	103.5%	2-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after the 1-month Expiry Date on such Index Dissemination Day	2	Monthly
-1/6 (Sell)	European Call	104%	2-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after the 1-month Expiry Date on such Index Dissemination Day	2	Monthly
-1/6 (Sell)	European Call	104.5%	2-month – Options with Expiry Date on the 3rd Friday of each month falling strictly after the 1-month Expiry Date on such Index Dissemination Day	2	Monthly

40.1.7. MARKET DISRUPTION EVENTS

STOXX will exclude from their indices all options as soon as their delisting becomes known to STOXX (e.g. direct notification from the market, or unavailability of a settlement price)

41. EURO iSTOXX 50 QUANTO EURKRW ADJUSTED INDEX

41.1. EURO iSTOXX 50 QUANTO EURKRW ADJUSTED

41.1.1. OVERVIEW

The EURO iSTOXX 50 Quanto EURKRW Adjusted Index aims to facilitate the pricing of quanto products – a type of derivative in which the underlying is denominated in one currency but the instrument is settled in another currency – in KRW on the EURO STOXX 50.

The index aims to provide an easily replicable variant of the commonly known quanto formula by adjusting the returns of the underlying index, i.e. the EURO STOXX 50, in such a way that they replicate the returns of the quanto formula, using only the returns of the underlying index and the EURKRW exchange rate as inputs.

Base values and dates:

- Base date: 31 October 2007
- Base value: 1000
- Underlying Index: EURO STOXX 50 Price EUR
- Index Type: Price
- Index Currency: EUR
- Dissemination Calendar: STOXX Europe Calendar

41.1.2. CALCULATION

$$\mathrm{IDX}_t = \mathrm{IDX}_{t-1} \cdot \left[\frac{\mathrm{UND_IDX}_t}{\mathrm{UND_IDX}_{t-1}} + \left(\left(\frac{\mathrm{UND_IDX}_t}{\mathrm{UND_IDX}_{t-2}} - 1 \right) \cdot \left(\frac{\mathrm{FX}_t}{\mathrm{FX}_{t-1}} - 1 \right) \right) \right]$$

Where

IDX	index for day t
$\mathrm{UND_IDX}_t$	underlying index level for day t
FX_t	EURKRW_t rate for day t defined as the product of EURUSD_t x USDKRW_t
EURUSD_t	The Reuters TKFE Tokyo 15:00 fixing at day t, defined as TKFEEUR15=J
USDKRW_t	The Reuters KFTC30 Korea 15:00 fixing at day t, defined as KRW15H=KFTC

41.1.3. TRADING SUSPENSION

The EURO iSTOXX 50 Quanto EURKRW Adjusted Index is calculated based on the closing levels of the EURO STOXX 50 Index and the FX fixings on the USDKRW and EURUSD as per the index methodology.

If there is suspension of the underlying data on scheduled trading days or data is unavailable due to holidays for any of the EURO STOXX 50 Index or the FX fixings, the EURO iSTOXX 50 Quanto EURKRW Adjusted Index will be calculated with the latest prices available.

42. EURO iSTOXX 50 FUTURES ROLL DAILY LEVERAGE AND SHORT INDICES

42.1. EURO iSTOXX 50 FUTURES ROLL DAILY LEVERAGE AND SHORT INDICES

42.1.1. OVERVIEW

The EURO iSTOXX 50 Futures Roll Daily Leverage and EURO iSTOXX 50 Futures Roll Daily Short indices replicate a leveraged investment strategy based on the EURO STOXX 50® Futures Roll Index.

Leveraged indices are linked to the changes in the underlying index, applying a leverage factor to movements in the underlying index. Therefore, a positive change of the EURO STOXX 50® Futures Roll Index will result in the corresponding leveraged performance of the EURO iSTOXX 50 Futures Roll Daily Leverage Index compared to the closing level from the last rebalancing.

Short indices are linked inversely to the changes in the underlying index, applying a negative leverage factor to movements in the underlying index. As a result, investing in the EURO iSTOXX 50 Futures Roll Daily Index yields the reverse performance of the EURO STOXX 50® Futures Roll Index, compared to the closing level from the last rebalancing.

Index types:

Index	Return Versions	Leverage factor (L)
EURO iSTOXX 50 Futures Roll Daily Leverage	Excess Return, Total Return	2
EURO iSTOXX 50 Futures Roll Daily Short	Excess Return, Total Return	-1

Underlying index: EURO STOXX 50® Futures Roll Index

Base values and dates: 1000 as of December 29, 2000

Index currency: EUR

Dissemination Calendar: STOXX Eurex Calendar

42.1.2. CALCULATIONS

The EURO iSTOXX 50 Daily Leverage/ Short indices are calculated using the daily performance of the EURO STOXX 50 Futures Roll Index as follows:

$$IV_t = IV_{t-1} \times \left[1 + L \times \left(\frac{UI_t}{UI_{t-1}} - 1\right)\right]$$

Where:

IV Leveraged index (EURO iSTOXX 50 Futures Roll Daily Leverage/ Short Index)

42. EURO iSTOXX 50 FUTURES ROLL DAILY LEVERAGE AND SHORT INDICES

UI	Underlying index (EURO STOXX 50® Futures Roll Index)
L	Leverage factor (please see previous table)
t	Time of calculation
t-1	Previous index calculation day (also the last rebalancing day prior to t)

42.1.3. ADJUSTMENTS DUE TO EXTREME MARKET MOVEMENTS

The rebalancing is based on the calculation of average index values over a time window of 10 minutes. The time window to calculate the average starts 5 minutes after and ends 15 minutes after the trigger event occurs. The rebalancing is triggered when the underlying index loses more than x% (leverage index) or appreciates by more than x% (short index) compared to its previous day's close. The breach of the trigger is checked on a tick-by-tick basis. During this time window, the average of both the underlying index (UI) and the Leveraged/ Short index (IV) are calculated. The two averages then substitute respectively UI_{t-1} and IV_{t-1} in the index calculation formula.

The respective trigger values (x) are as below:

Index	Trigger value
EURO iSTOXX 50 Futures Roll Daily Leverage	x = -25%
EURO iSTOXX 50 Futures Roll Daily Short	x = 50%

Over the course of the 10 minute period in which the average is determined, the index is not disseminated. The index dissemination ends 5 minutes after the trigger event and is resumed with an index level equal to the determined average 15 minutes after the trigger event. Should the intraday rebalancing be triggered less than 15 minutes prior to the end of the index calculation day, the regular overnight rebalancing is carried out. If the strategy index reaches a value of 0 or below over the course of the 15, the index is set to a value of 0 and its calculation / dissemination is discontinued.

42.1.4. REVERSE SPLIT

If the closing value of a daily leverage or daily short index drops below 1 index point, a reverse split is carried out. The affected leverage or short index is multiplied with a factor of 1000.
The reverse split is carried out based on the index close ten trading days after the index initially dropped below a closing value of 1 point, notwithstanding whether the index rises above a level of 1 point in the meantime.

42.1.5. TRADING SUSPENSION

If there is suspension of the underlying index, the leveraged and short indices will be calculated with the latest prices available.

43. iSTOXX CHINA ALL SHARES AM INDEX

43.1. iSTOXX CHINA ALL SHARES AM INDEX

43.1.1. OVERVIEW

The iSTOXX China All Shares AM Index is derived from the combination of domestic and non-domestic China share classes. The share classes comprised of China A-Shares (only shares available to foreign investors through Shanghai-Hong Kong Stock Connect or Shenzhen-Hong Kong Stock Connect), B-Shares, H-Shares, Red Chips, P Chips and Chinese ADRs listed in the New York or Nasdaq stock exchanges.

Universe: Constituents of STOXX China A 900, STOXX China B Total Market, STOXX China H Total Market, STOXX China Red Chips Total Market, STOXX China P Chips Total Market, STOXX China ADR Total Market

Weighting scheme: The indices are weighted according to free-float market capitalization

Base values and dates: The following base values and dates apply: 100 on Dec 21, 2012

For a complete list please consult the data vendor code sheet on the website[48]. Customized solutions can be provided upon request.

Index types and currencies: Price, net and gross return in EUR, USD and CNY

Dissemination calendar: STOXX Global calendar

43.1.2. INDEX REVIEW

Composition selection: The indices consist of the components of the relevant indices in the universe.

For the China-A Shares, only shares available to foreign investors through Shanghai-Hong Kong Stock Connect or Shenzhen-Hong Kong Stock Connect.

Multiple share listings: In case a company is present with multiple listings, only the most liquid share line by 3 month ADTV will be retained.

Review frequency: The reviews are conducted on a quarterly basis together with the indices in the universe.

43.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index.

Fast exit: Not applicable.

[48] http://www.STOXX.com/download/indices/vendor_codes.xls

43. iSTOXX CHINA ALL SHARES AM INDEX

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

44. iSTOXX INCREMENT INDICES

44.1.1. OVERVIEW

The Increment Index (see table below) replicates the return of an investment into the Underlying Index (see table below) assuming a constant performance addition per annum. The performance addition accrues constantly on a daily basis. Consequently, due to the percentage of performance addition, the Increment index outperforms the standard net return version of the Underlying Index.

44.1.2. DEFINITIONS

Index Name	Underlying Index	Value of the Underlying Index on the base date	Increment Amount
EURO iSTOXX 50 NR Increment 0.69%	EURO STOXX 50 Net Return Index	804.28	0.69%
iSTOXX Europe 600 NR Increment 0.38%	STOXX EUROPE 600 Net Return Index	73.56	0.38%

Base value: 100
Index Currency: EUR
Index type: Net Return
Base date: 31 Dec 1986
Dissemination calendar: STOXX Europe calendar

44.1.1. CALCULATION

The increment indices listed above are calculated according to the iSTOXX Increment Indices section of the STOXX Strategy Guide.

44.1.2. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying index are reflected in the Increment Index.

45. EURO iSTOXX EQUAL INDUSTRY 50 EW INDEX

45.1. EURO iSTOXX EQUAL INDUSTRY 50 EW INDEX

45.1.1. OVERVIEW

The EURO iSTOXX Equal Industry 50 EW Index is comprised of companies with high free-float market cap from the EURO STOXX® Index, chosen in a way that ensures diversification across industries by selecting an equal number of companies from each industry and allocating equal weights to each one of them.

Universe: The constituents of the EURO STOXX index

Weighting scheme: The index is price-weighted with weighting factors to achieve equal-weight.

Base values and dates: The following base values and dates apply: 100 on December 19, 2003

For a complete list please consult the data vendor code sheet on the website[49]. Customized solutions can be provided upon request.

Index types and currencies: Price, Net Return and Gross Return in EUR, USD

45.1.2. INDEX REVIEW

Selection list:
The review cutoff date is the last dissemination day of the month preceding the review month. The index is reviewed in line with the EURO STOXX, i.e. the components of the EURO STOXX Index, effective on the upcoming review date, constitute the EURO iSTOXX Equal Industry 50 EW Index's selection list.

Composition list: all companies in the selection list are ranked by their free-float market capitalization, as of the review cut-off date - within their ICB Industry group. The 5 largest stocks from each of industry group are selected in the final index composition.

After the September 2020 review, ICB industry group as identified by the below table 'New ICB Industry' will be employed. Financials (30) and Real Estate (35) will be aggregated, considered as one single group and the 5 largest stocks will be selected from this combined group.

New ICB Industry Group	
10	Technology
15	Telecommunications
20	Health Care
30 + 35	Financials + Real Estate
40	Consumer Discretionary
45	Consumer Staples

[49] http://www.STOXX.com/download/indices/vendor_codes.xls

45. EURO iSTOXX EQUAL INDUSTRY 50 EW INDEX

50	Industrials
55	Basic Materials
60	Energy
65	Utilities

In case one or more groups are comprised of less than five companies, the EURO iSTOXX Equal Industry 50 EW will have less than 50 components.

Weighting cap factors: The industries represented in the index, as well as the companies within each industry, are equally weighted. Weighted on a quarterly basis. After September 2020 review, ICB industry group as identified by the above table 'New ICB Industry' will be employed. However, Financials (30) and Real Estate (35) will be merged and allotted one-tenth weight.

The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Weighting factor = (100,000,000,000 / closing price of the stock in EUR) and rounded to integers

Review frequency: The index is reviewed quarterly in March, June, September and December, in line with the parent index. The implementation of the review is conducted after the close of the third Friday of the respective review month and becomes effective on the next index dissemination day.

Derived indices: The EURO iSTOXX Equal Industry 50 EW EUR Net Return Index serves as input for the EURO iSTOXX Equal Industry 50 EW NR Decrement 5% index (Section 9.22)

45.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spun-off stocks are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

46. iSTOXX FRANCE GERMANY BENELUX 60 EQUAL WEIGHT INDEX

46.1. iSTOXX FRANCE GERMANY BENELUX 60 EQUAL WEIGHT INDEX

46.1.1. OVERVIEW

The constituents of the iSTOXX France Germany Benelux 60 Equal Weight Index are selected from the STOXX Europe 600 index. The securities are ranked according to their free float market capitalization after excluding companies that do not fall under the following countries of classification: France, Germany, Belgium, Netherlands and Luxembourg. Companies with the highest free market capitalization are selected according to the following process: largest 40 companies from France, ten from Germany and ten from Belgium, Netherlands and Luxembourg (combined), producing a collection of 60 companies. The components are assigned equal weights and reviewed on a quarterly basis in March, June, September and December.

Universe: The STOXX Europe 600 Index, as observed on the review effective date defines the index universe.

Weighting scheme: Equal weighted

Base values and dates: 100 on June 20, 2008

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe Calendar

46.1.2. INDEX REVIEW

Selection list: From the universe, STOXX Europe 600, only securities from France, Germany, Belgium, Netherlands and Luxembourg are added to the selection list**.**

Composition list: All the remaining companies in the selection list are classified into three groups according to their unique country code: a) companies from France, b) companies from Germany, c) companies from Belgium, Netherlands and Luxembourg. The companies are ranked in descending order in terms of their free float market capitalization in their respective group. The final index composition list is comprised of the largest 40 companies from France, ten companies from Germany and ten from Belgium, Netherlands and Luxembourg.

Review frequency: The index is reviewed quarterly in March, June, September and December, in line with the parent index. The implementation of the review is conducted after the close of the third Friday of the respective review month and becomes effective on the next index dissemination day following the implementation day. The review cut-off date for the underlying data is the last trading day of the month preceding the review month.

Weighting factors: All components are equal-weighted on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices. Weighting factor = (10,000,000,000 * weight in percentage / closing price of the stock in EUR) and rounded to integers.

46. iSTOXX FRANCE GERMANY BENELUX 60 EQUAL WEIGHT INDEX

Derived Indices: The iSTOXX France Germany Benelux 60 Equal Weight Net Return Index serves as an input for iSTOXX France Germany Benelux 60 Equal Weight NR Decrement 5% Index, section 9.25.

46.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers: Not applicable.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

47. EURO iSTOXX ENVIRONMENTAL 50 EQUAL WEIGHT INDEX

47.1. EURO iSTOXX ENVIRONMENTAL 50 EQUAL WEIGHT INDEX

47.1.1. OVERVIEW

The EURO iSTOXX Environmental 50 Equal Weight Index tracks the performance of 50 liquid stocks that are selected from a pool of companies that are classed as leaders with regard to Environmental criteria.

Universe: The EURO STOXX® Index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is price-weighted with a weighting factor to achieve equal weighting.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

47.1.2. INDEX REVIEW

Selection List: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, all stocks in the universe are screened for the following indicators and a company must fulfil the following conditions in order to be included in the selection list:

i. Not in contravention of Global Standards Screening (GSS) or involved in Controversial Weapons activities, as identified by Sustainalytics
ii. Environmental (E), Social (S) and Governance (G) scores equal to or exceeding 50, as derived from Sustainalytics' transparent ESG performance rating model

If ESG data is not available for a security, then the security is removed from the universe.

Companies fulfilling the above conditions constitute the selection list.

Composition list: All companies on the Selection List are ranked in descending order based on their free-float market capitalization, as it is calculated on the review cut-off date. The 100 companies with the highest free-float market capitalization are selected for the next step of the selection process, and are ranked again in descending order based on their Environmental (E) score, provided by Sustainalytics. The 50 companies with the highest Environmental score are selected to compose the index. In case of identical Environmental scores, priority is assigned to the security with the highest free-float market capitalization. If less than 50 securities are available, the index will have a lower number of constituents.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of February, May, August and November respectively.

47. EURO iSTOXX ENVIRONMENTAL 50 EQUAL WEIGHT INDEX

Weighting and capping factors: The constituents are equal weighted

$$w_i = \frac{1}{N}$$

where,

w_i	target weight of component i
N	Number of components in the index (50)

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Derived Indices: The EURO iSTOXX Environmental 50 Equal Weight serves as an input for the EURO iSTOXX Environmental 50 Equal Weight NR Decrement 5% index (section 9.26)

47.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

48.1. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

48.1.1. OVERVIEW

The EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index is constructed on the EURO STOXX index with standardized ESG exclusion screens applied for Global Standards Screening, Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco Producers. The objective is to diversify across the factors of Profitability, Earnings Yield, Leverage, Value and Low Volatility (accomplished through the minimum variance objective), with the weighting determined by a multi-factor optimization process.

Universe: EURO STOXX

Weighting scheme: The index is price weighted according to a multi-factor optimization that minimizes variance.

Base values and dates: 100 on March 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD.
For a complete list please consult the data vendor code sheet on the website[50].

Dissemination calendar: STOXX Europe

48.1.2. INDEX REVIEW

Component selection and weighting cap-factors:
From the universe, a set of exclusion criteria are applied which follow the Global Standards Screening, a set of definitions for Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco.

Global Standards Screening :
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

[50] http://www.STOXX.com/download/indices/vendor_codes.xls

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale of controversial weapons (0% revenue threshold)
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>25% power generation capacity from coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operate coal-fired power plants).

Nuclear Power:
STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:
- » Utilities that own/operate nuclear power generators;
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power.

»>25% revenues from nuclear power supporting products / services, including:
- » Design and construction of nuclear power plants;
- » Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls;
- » Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- » Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate.

»>25% revenues from nuclear power distribution, including:
- » The resale or distribution of electricity generated from nuclear power;
- » This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix.
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power.

Tobacco:
STOXX will exclude companies that Sustainalytics identifies as tobacco producers (0% revenue threshold).

The EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor optimization is performed using Axioma's Portfolio Optimization software. This portfolio construction tool includes a Second-Order Cone optimization engine as well as a Branch-and-Bound algorithm for combinatorial problems that has been specialized for financial problems.

Risk predictions are made using Axioma's European, Medium-Horizon, Equity Fundamental Factor Risk Model.

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

The EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index may have less constituents than the original index.

Constraint	Multi Factor Model
Individual capping	4.5% / 8% / 35%
Effective number of assets	At least 30% of parent benchmark
Rebalancing and max. turnover	Quarterly, 7.5%
Country / Industry / Sector exposure	Within 5% of parent benchmark
Factor exposures	
Profitability	At least 0.25 cross sectional standard deviations greater than parent benchmark
Earnings Yield	At least 0.25 cross sectional standard deviations greater than parent benchmark
Leverage	At least 0.25 cross sectional standard deviations less than parent benchmark
Value	At least 0.25 cross sectional standard deviations greater than parent benchmark
Medium-Term Momentum	Within 5% of parent benchmark
Size	At least as large as parent benchmark and less than 5% of parent benchmark
Tracking error	None
Max. number of names	None

The cross-sectional standard deviation is computed as the standard deviation of factor exposures across assets in the Axioma risk model estimation universe as of the rebalance date (market close on the 2nd Friday of the Review Month).

Individual capping

STOXX aims to build the index such that constituent weights fulfil the 5% / 10% / 40% diversification rule, whereby a component cannot weigh more than 10%, and the weights sum of all those weighing at least 5% cannot exceed 40%. By applying the tighter constraints of 4.5% / 8% / 35%, STOXX aims to reduce the chance of breaching the above mentioned levels and to reduce the gravity of the breaches if and when they occur.

Effective number of assets

The effective number of assets of an index is the value, H, defined as:

$$H = \frac{1}{\sum w^2}$$

where w is the weight in each portfolio asset. H gives an accurate measure of the number of assets that affect a portfolio. The number of holdings in an index that is weighted by optimisation should be constrained along those lines as well, as otherwise, the portfolio may hold an overly concentrated portfolio, with holdings with insignificant weights.

The constraint is defined as follows for the Unconstrained index:

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

$\mathrm{H}_{Multi\ Factor} \geq \mathrm{H}_{\mathrm{Base}} \cdot 30\%$

Maximum turnover
The EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index has a 7.5% one-way turnover constraint, or 15% two-way turnover. This means up to 7.5% of the portfolio is sold in order to purchase other components (with the aim of having a maximum annual turnover of 60%).

Minimum liquidity requirement
Recognizing that minimum variance portfolios may prefer to hold slightly less liquid stocks, the minimum liquidity requirement ensures that there is no material buildup in illiquid positions in the portfolio.

The weighted average days-to-trade d_s for a given group of holdings S are defined as:

$$d_S = \sum_{i \in S} w_i \cdot \frac{h_i}{MDTV_i}$$

where $h_i = w_i \cdot N$ represents the holdings for stock i and $MDTV_i$ represents its 60-day median daily traded value.

Stocks in the benchmark index are ranked by MDTV, and liquidity constraints are imposed on stocks in the two least liquid quintiles. For each of these quintiles Q, the weighted average days to trade of the positions (w_i) therein is required to be no more than 3 times the weighted average days to trade of the same stocks held at corresponding benchmark weights (b_i).

$$\sum_{i \in Q} w_i \cdot \frac{w_i \cdot N}{MDTV_i} \leq \gamma \cdot \sum_{i \in Q} b_i \cdot \frac{b_i \cdot N}{MDTV_i}$$

Each position value has been rewritten in terms of the portfolio notional value N (since the term appears in both sides of the inequality constraint, it cancels out and the actual value is irrelevant).
The parameter γ is set to 3.
b_i represents weights in the corresponding capitalization-weighted benchmark index weight.

Country, Industry and Sector exposure
The exposure to each country, ICB Industry and ICB Sector is summed up for the parent benchmark index, and the percentage exposure of the EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index has to be within 5% of those values. These constraints make sure the Multi Factor index is closely related in structure to the parent index, except for risk.

Factor exposures
The parent index' exposure to each factor is computed and the EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index is constrained to be at least a quarter standard deviation from that value (for Profitability, Leverage, Value, and Earnings Yield) and close to the benchmark for other factors, as specified in the table above. The factor exposures for each asset are determined by Axioma's European, Medium-Horizon, Equity Fundamental Factor Risk Model, which gives factor exposures as Z scores.

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

- **Profitability**
  Profitability of a company is a measure of the company's profitability, and it is often associated with the quality of the company. Profitability is constructed as a linear combination of the return-on-equity, return-on-assets, cash-flow-to-assets, cash-flow-to-income, gross margin, and sales-to-assets descriptors. Return-on-equity is calculated as the most recently reported annual earnings values, divided by the average of the two most recently reported annual common equity values. Return-on-assets is calculated as the most recently reported annual earnings values, divided by the average of the two most recently reported annual total assets values. Cash-flow-to-assets is calculated as the most recently reported annual operating cash flow divided by the average of the two most recently reported annual total assets values. Cash-flow-to-income is calculated as the average of the two most recently reported annual operating cash flows divided by the average of the two most recently reported annual income values. Gross margin is calculated as net sales (sales minus the cost of goods sold), divided by sales. Both the numerator and the denominator values are computed as the most recently reported annual values. Sales-to-assets is calculated as the most recently reported annual sales values, divided by the most recently reported annual total assets values.

- **Earnings Yield**
  Earnings yield is calculated as a combination of three parts realized to one part forecast earnings-to-price. Realized earnings to price is calculated as the most recently reported annual net income value, divided by the average total issuer market capitalization computed over the last 30 calendar days. Forecast earnings-to-price is calculated as forward-looking earnings estimate, divided by the average total issuer market capitalization computed over the last 30 calendar days.

- **Leverage**
  Leverage provides a measure of a company's exposure to debt levels. It is calculated as the equal-weighted average of the descriptors, debt-to-assets and debt-to-equity. Both descriptors are standardized prior to summation. Debt-to-assets is calculated as the ratio of long-term and short-term debt to total assets, where total assets is computed as the most recently reported value from annual reports. Debt-to-equity is calculated as the ratio of long-term and short-term debt to common equity, where common equity is computed as the average of the four most recently reported values from annual reports.

- **Value**
  Value gives a measure of how fairly a stock is priced within the market. It is calculated as book-to-price. Book-to-price is calculated as the ratio of common equity to average 30-calendar-day total issuer market capitalization. The calculation uses the most recently reported annual common equity value.

- **Medium-term Momentum**

48. EURO iSTOXX ESG-X & EX NUCLEAR POWER MULTI FACTOR INDEX

Medium-Term Momentum gives a measure of a stock's past performance over the medium term. It is defined as an asset's cumulative return over the last 250 trading days, with the last 20 trading days progressively down weighted (approximately the past year excluding the past month). To improve the stability of exposures, the return histories used to calculate the exposures are weighted by a trapezoidal weighting scheme instead of an equal weighting scheme.

- **Size**
  Size differentiates large and small stocks and is defined as the natural logarithm of the total issuer market capitalization, averaged over the last month. Issuer market capitalization is computed as the product of the total shares outstanding and closing price, summed over all issues common to the issuer.

Tracking error
This constraint is not applicable to the EURO iSTOXX ESG-X & Ex Nuclear Power Multi Factor index.

Review frequency
The index is reviewed quarterly in line with the parent index (implementation after the close of the third Friday and effective the next dissemination day in March, June, September and December).

The review cut-off date is the last dissemination day of the month preceding the review month.
The review cut-off date for Axioma data is the second Friday of the review month.

Derived indices: Not applicable.

48.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

49. iSTOXX DEVELOPED AND EMERGING MARKETS EX USA PK VN REAL ESTATE INDEX

49.1. iSTOXX DEVELOPED AND EMERGING MARKETS EX USA PK VN REAL ESTATE INDEX

49.1.1. OVERVIEW

The iSTOXX Developed and Emerging Markets ex USA PK VN Real Estate Index represents the real estate sector in the developed and emerging markets excluding the United States, Pakistan and Vietnam.

Universe: The index universe is defined by the STOXX Developed and Emerging Markets Total Market index.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: The following base values and dates apply: 1000 on December 19, 2008

Index types and currencies: Price, net return, gross return in EUR and USD.

Dissemination calendar: STOXX Global Calendar

49.1.2. INDEX REVIEW

Composition list: Only companies from the Real Estate super sector (Effective up until September 2020 review, identified as ICB 8600.Effective with September 2020 review, identified as ICB 3510) are selected. Companies from the United States, Pakistan, and Vietnam are excluded.

Review frequency: The reviews are conducted on a quarterly basis in line with the parent index.

49.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

50. iSTOXX GLOBAL MILLENNIALS RISK CONTROL 5% RV INDEX

50.1. iSTOXX GLOBAL MILLENNIALS RISK CONTROL 5% RV INDEX

50.1.1. OVERVIEW

The iSTOXX Global Millennials Risk Control 5% RV index is designed to control the risk profile of the underlying STOXX Global Millennials Index. The iSTOXX Global Millennials Risk Control 5% RV reflects a 5% target volatility strategy. This strategy involves a shift between a risk-free money market investment and a risky portfolio (measured by the STOXX Global Millennials Index). The allocation of the STOXX Risk Control Indices is determined on the basis of the realized volatility of the underlying index.

Index	Underlying Index	Target Volatility	Currency/Interest Rate	Tolerance	Cap
iSTOXX Global Millennials Risk Control 5% RV	STOXX Global Millennials USD Gross Return	5%	SOFR	5%	150%

Index types and currencies: Excess return and Total Return in USD

Base values and dates: 100 on September 7, 2012

Dissemination calendar: STOXX Europe Calendar

50.1.2. INDEX FORMULA

$$\mathrm{TR_t} = \mathrm{TR_{t-1}} * \left\{1 + \mathrm{w_{t-1}} * \left(\frac{\mathrm{UI_t}}{\mathrm{UI_{t-1}}} - 1\right) + (1 - \mathrm{w_{t-1}}) * \left[\mathrm{IR_{t-1}} * \frac{\mathrm{Diff(t-1,t)}}{360}\right]\right\}$$

$$\mathrm{ER_t} = \mathrm{ER_{t-1}} * \left[1 - \mathrm{IR_{t-1}} * \frac{\mathrm{Diff(t-1,t)}}{360}\right] * \left\{1 + \mathrm{w_{t-1}} * \left(\frac{\mathrm{UI_t}}{\mathrm{UI_{t-1}}} - 1\right) + (1 - \mathrm{w_{t-1}}) * \left[\mathrm{IR_{t-1}} * \frac{\mathrm{Diff(t-1,t)}}{360}\right]\right\}$$

where:

$\mathrm{TR_t}$	iSTOXX Global Millennials Risk Control 5% RV Total Return index level on index level determination date t
$\mathrm{w_t}$	Equity Weight on index level determination date t
$\mathrm{UI_t}$	Level of the underlying STOXX index on index level determination date t
$\mathrm{IR_t}$	SOFR
$\mathrm{Diff(t-1,t)}$	Difference between t-1 and t measured in calendar days

50.1.3. DETERMINATION OF THE TARGET WEIGHT

On any Index Level Determination Date t, the Target Weight shall be determined as follows:

$$\mathrm{Tgtw_t} = \frac{5\%}{\mathrm{MaxRealizedVol_{t,(20,60)}}}$$

50.iSTOXX GLOBAL MILLENNIALS RISK CONTROL 5% RV INDEX

Where:
$\mathrm{MaxRealizedVol}_{t,(20,60)}$ is the maximum of the realized volatilities measured over 20 and 60 days.

$$\mathrm{RealizedVol}_{t,n} = \sqrt{\frac{252}{n} * \sum_{s} \left[\ln\left(\frac{UI_t}{UI_{t-1}}\right)\right]^2}$$

Where:
$n =$ 19 (59)
$s =$ ranging from t-18 to t (t-58 to t)

50.1.4. DETERMINATION OF THE EQUITY WEIGHT AND INDEX REBALANCING DAYS

The Equity Weight on the Index Start Date shall be equal to the Target Weight at the Index Start Date,

$$w_0 = \mathrm{Min}(\mathrm{Cap}, \mathrm{Tgtw}_0)$$

On any Index Level Determination Date t subsequent to the Index Start Date, the Equity Weight shall be determined as follows:

(i) If $\mathrm{abs}\left(1 - \frac{w_{t-1}}{\mathrm{Tgtw}_{t-1}}\right) > \mathrm{Tolerance}$

then the Index Level Determination Date t will be an Index Rebalancing Day and

$$w_t = \mathrm{Min}(\mathrm{Cap}, \mathrm{Tgtw}_{t-1})$$

(ii) Otherwise, Index Leven Determination Date t will not be an Index Rebalancing Day and

$$w_t = w_{t-1}$$

where:
$\mathrm{Tolerance}$ allows a predefined deviation from the target weight, set to 5%
w_t Equity Weight on Index Level Determination Date t
Tgtw_t Target Weight on Index Level Determination Date t
Cap The maximum portion that can be given to the risky asset, set to 150%

51. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

51.1. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

51.1.1. OVERVIEW

The iSTOXX Global ESG ex-Controversial Activities Select 30 Index tracks the performance of 30 liquid stocks with low volatility and high dividend yield. The components are selected from a pool of companies that are classed as leaders with regard to Environmental, Social and Governance criteria. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies that are non-compliant according to Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Gambling, Adult Entertainment, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco, Aerospace and Defense are also excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

51.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for their ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, an ESG score of 0 is assigned. The 1800 companies are then ranked in descending order in terms of their ESG scores, and the 40% companies with the lowest ESG scores (i.e. 720 companies), are excluded from the selection process. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the with the highest dividend yield.

The remaining companies are then screened for the following indicators:

i. 12-month historical net dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco

51. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

If any of the fields i) to iv) above have missing information for a stock, then that company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil the conditions below, in the order they are listed:

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR
- Effective up until September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (2713, 2717 ICB codes).
  Effective with September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 ICB codes)
- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- Not have any Product Involvement in the following areas[51]:

Weapons:

i) Small Arms:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing and selling assault weapons to civilian customers
»>50% significant ownership of a company that manufactures and sells assault weapons to civilian customers
»>10% revenues from manufacturing and selling small arms to military / law enforcement customers
»>50% significant ownership of a company that manufactures and sells small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>50% significant ownership of a company that manufactures and sells key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>50% significant ownership of a company involved in retail and/or distribution of assault weapons

[51] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

51. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>50% significant ownership of a company involved in retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
»>50% significant ownership of a company manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>50% significant ownership of a company involved in manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>50% significant ownership of a company involved in tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry
»>50% significant ownership of a company involved in non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>50% significant ownership of another company with involvement in the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials
»>50% significant ownership of another company with involvement in the distribution of adult entertainment

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from owning and/or operating a gambling establishment
»>50% significant ownership of another company with involvement in owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>50% significant ownership of another company with involvement in manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations
»>50% significant ownership of another company with involvement in providing supporting products/services to gambling operations

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
»>50% significant ownership (extraction) of a company that is involved in Oil & Gas exploration & extraction in Arctic regions

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ii) Oil Sands:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
»>50% significant ownership of a company that is involved in extraction of oil sands

iii) Shale Energy:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production
»>50% significant ownership of a company that is involved in shale energy exploration and/or production

Conventional Oil & Gas:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>50% significant ownership of a company that is involved in exploration, production, refining, transportation and storage of oil and/or gas
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>50% significant ownership of a company that is involved in the provision of tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage.
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)
»>50% significant ownership of a company that is involved in involvement in the generation of electricity from oil and/or gas

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>50% significant ownership of a company that is involved in the extraction of thermal coal
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)
»>50% significant ownership of a company that is involved in the generating electricity from thermal coal

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>50% significant ownership of a company involved in producing nuclear power
»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls

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- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>50% significant ownership of a company involved in providing products / services that support the nuclear power industry

»>25% revenues from nuclear power distribution, including:

- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

»>50% significant ownership of a company involved in distribution of electricity generated from nuclear power

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to have:

»>0% revenues from manufacturing tobacco products

»>50% significant ownership of a company that is involved in the manufacturing tobacco products

»>0% revenues from supplying tobacco-related products/services

»>50% significant ownership of a company that is involved in supplying tobacco-related products/services

»>0% revenues from the distribution and/or retail sale of tobacco products.

»>50% significant ownership of a company that is involved in distribution and/or retail sale (>10% total revenues) of tobacco products.

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list are first sorted in descending order in terms of 12-month historical net dividend yield and the top 150 (highest dividend yielding) stocks are selected. In case two companies for a given cut-off date have the same dividend yield, priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR)
2) Subsequently, from the remaining stocks, 5 securities from the USA with the lowest volatility (as defined above), are admitted in the composition list, ensuring a minimum number of 5 companies are representing the USA.
3) The remaining companies, which are still ranked in descending order in terms of dividend yield, are screened for eligibility in the final portfolio, starting from the one with the highest dividend and progressively moving to the bottom of the ranking list, in such a way that the following conditions are met:
   a. **Industry**
   Effective up until September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1

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Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

b. Region

Maximum of 15 components and minimum of 3 components coming from the 3 geographic regions below, according to their country of classification:

- North America : components of the STOXX North America 600 Index
- Europe: components of the STOXX Europe 600 Index
- Asia/Pacific: components of the STOXX Asia/Pacific 600 Index

c. Country

For each country i, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$K_i = (SXW1_i + 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global ESG ex-Controversial Activities Select 30 Index

$SXW1_i$ weight of the components coming from country i, in the STOXX Global 1800 Index (parent index), as of the cutoff date

51. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

N number of constituents in the iSTOXX Global ESG ex-Controversial Activities Select 30 Index

- A separate cap is applied for i= UK:

$$K_{UK} = 3$$

All eligible companies that fulfil the optimization process described in step 3, are then sorted in ascending order in terms of their volatility. The final composition list, consists of 30 companies: the 5 companies selected from step 2, and the 25 companies with the lowest volatility from the list of companies derived from step 3.

If the composition list cannot be completed with 30 stocks under the above constraints, or if rule 2 related to the minimum number of 5 US components is not met, then the number of stocks selected at step 1 (companies with highest net dividend yield) is incremented by 1, and the steps 2 and 3 are repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

If constraint 3b, related to the minimum number of 3 components per geographic region is not met, then the maximum number of components allowed per region is decremented by 1, and step 3 is repeated.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

51. iSTOXX GLOBAL ESG EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

51.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

52.1. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

52.1.1. OVERVIEW

The iSTOXX Global Low Carbon ex-Controversial Activities Select 30 Index tracks the performance of 30 liquid stocks with low volatility and high dividend yield. The components are selected from a pool of companies with low carbon intensity figures. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies that are non-compliant according to Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Gambling, Adult Entertainment, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco, Aerospace and Defense are also excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

52.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for their Carbon Intensity[52]. The 1800 companies are ranked in descending order in terms of their Carbon Intensity scores, and the 30% companies with the highest intensity (i.e. 540 companies), are excluded from the selection process. Companies with missing Carbon Intensity information incorporated in the 30% of companies that are excluded (i.e. they are treated as if they have a Carbon Intensity equal to the maximum Carbon Intensity figure among the rest of the companies in the Universe with available information). In case two companies for a given cut-off date have the same Carbon Intensity, priority in the ranking is given to the one with the with the lowest dividend yield, and will be excluded.

The remaining companies are then screened for the following indicators:

i. 12-month historical net dividend yield

[52] Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million)

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco

If any of the fields i) to iv) above have missing information for a stock, then that company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil the conditions below, in the order they are listed:

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR
- Effective up until September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (2713, 2717 ICB codes)
  Effective with September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 ICB codes)
- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- Not have any Product Involvement in the following areas[53]:

Weapons:

iii) Small Arms:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing and selling assault weapons to civilian customers
»>50% significant ownership of a company that manufactures and sells assault weapons to civilian customers
»>10% revenues from manufacturing and selling small arms to military / law enforcement customers

[53] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

»>50% significant ownership of a company that manufactures and sells small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>50% significant ownership of a company that manufactures and sells key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>50% significant ownership of a company involved in retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>50% significant ownership of a company involved in retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
»>50% significant ownership of a company manufacturing and selling small arms (non-assault weapons) to civilian customers

iv) Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>50% significant ownership of a company involved in manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>50% significant ownership of a company involved in tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry
»>50% significant ownership of a company involved in non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>50% significant ownership of another company with involvement in the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials
»>50% significant ownership of another company with involvement in the distribution of adult entertainment

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from owning and/or operating a gambling establishment
»>50% significant ownership of another company with involvement in owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>50% significant ownership of another company with involvement in manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations
»>50% significant ownership of another company with involvement in providing supporting products/services to gambling operations

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

Unconventional Oil & Gas

iv) Arctic Oil and Gas Exploration:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
»>50% significant ownership (extraction) of a company that is involved in Oil & Gas exploration & extraction in Arctic regions

v) Oil Sands:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
»>50% significant ownership of a company that is involved in extraction of oil sands

vi) Shale Energy:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production
»>50% significant ownership of a company that is involved in shale energy exploration and/or production

Conventional Oil & Gas:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>50% significant ownership of a company that is involved in exploration, production, refining, transportation and storage of oil and/or gas
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>50% significant ownership of a company that is involved in the provision of tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage.
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)
»>50% significant ownership of a company that is involved in involvement in the generation of electricity from oil and/or gas

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>50% significant ownership of a company that is involved in the extraction of thermal coal
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)
»>50% significant ownership of a company that is involved in the generating electricity from thermal coal

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:

- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

»>50% significant ownership of a company involved in producing nuclear power
»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>50% significant ownership of a company involved in providing products / services that support the nuclear power industry
»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

»>50% significant ownership of a company involved in distribution of electricity generated from nuclear power

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>50% significant ownership of a company that is involved in the manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>50% significant ownership of a company that is involved in supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.
»>50% significant ownership of a company that is involved in distribution and/or retail sale (>10% total revenues) of tobacco products.

Composition list: The final composition list with the 30 securities is derived by following the below steps in the order they are listed.

1) All stocks from the selection list are first sorted in descending order in terms of 12-month historical net dividend yield and the top 120 (highest dividend yield) stocks are selected. In case two companies for a given cut-off date have the same dividend yield, priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR)
2) Subsequently, the remaining stocks are sorted in ascending order in terms of volatility (as defined above). The top 5 securities from the USA (lowest volatility) in this ranking process, are admitted in the composition list, ensuring a minimum number of 5 companies are representing the USA.
3) The remaining 25 companies, are the ones with the lowest volatility from the remaining stocks, and are selected in such a way that the following conditions are met:
   a. **Industry**

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Effective up until September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

b. Region

Maximum of 15 components and minimum of 3 components coming from the 3 geographic regions below, according to their country classification:

- North America : components the STOXX North America 600 Index
- Europe: components of the STOXX Europe 600 Index
- Asia/Pacific: components of the STOXX Asia/Pacific 600 Index

c. Country

For each country i, a maximum number of components is calculated as follows, rounded to the nearest integer:

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

$$K_i = (SXW1_i + 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Low Carbon ex-Controversial Activities Select 30 Index

$SXW1_i$ weight of the components coming from country i, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global Low Carbon ex-Controversial Activities Select 30 Index

- A separate cap is applied for i= UK:

$$K_{UK} = 3$$

If the composition list cannot be completed with 30 stocks under the above constraints, or if rule 2 related to the minimum number of 5 US components is not met, then the number of stocks selected at step 1 (companies with highest net dividend yield) is incremented by 1, and the steps 2 and 3 are repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

If constraint 3b, related to the minimum number of 3 components per geographic region is not met, then the maximum number of components allowed per region is decremented by 1, and step 3 is repeated.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

52. iSTOXX GLOBAL LOW CARBON EX-CONTROVERSIAL ACTIVITIES SELECT 30 INDEX

52.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

53. iSTOXX SINGAPORE DEVELOPED REITS INDEX

53.1. iSTOXX SINGAPORE DEVELOPED REITS INDEX

53.1.1. OVERVIEW

The iSTOXX Singapore Developed REITs index is designed to represent the Developed REITs sector in Singapore.

Universe: The index universe is defined by the STOXX Singapore Total Market Index. Only securities of companies from the REITs sector (Effective up until September 2020 review, as identified by ICB 8670. Effective with September 2020 review, as identified by ICB 351020) which are incorporated in Singapore and denominated in SGD are eligible to be selected.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: The following base values and dates apply: 100 on December 21, 2012

Index types and currencies: Price, net return, gross return in EUR, USD and SGD.

Dissemination calendar: STOXX Global Calendar

53.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, all stocks in the universe are screened for the following indicators and a company must fulfil the following conditions in order to be included in the selection list:

1. Any new components to the index must have a free-float market capitalisation of at least SGD 1 billion. Existing components to the index must have a free-float market capitalisation of at least SGD 0.5 billion

2. Any new components to the index must have a 3-month median daily trading value (MDTV) of at least SGD 3 million in 3 of the last 4 quarters. Existing components must have a 3-month median daily trading value (MDTV) of at least SGD 1 million in 3 of the last 4 quarters. New issues with less than a year of trading must have been trading for at least 20 days when reviewed and will be evaluated based on the period since they started trading and all relevant quarters (with at least 20 days of history) should have a median daily trading value (MDTV) of at least SGD 3 million.

3. Any new components to the index must have at least 75% of its revenues coming from developed countries as defined per STOXX country classification. Existing components

53. iSTOXX SINGAPORE DEVELOPED REITS INDEX

to the index must have at least 50% of its revenues coming from developed countries as defined per STOXX country classification.[54]

Review frequency: The index is reviewed quarterly in March, June, September and December. The review cut-off date for the underlying data is the last business day of the month prior the review month. The composition of the corresponding universe effective on the Monday following the third Friday of the review month is used as the base universe.

53.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

[54] The revenues are derived based on STOXX True Exposure Indices methodology.

54. EURO iSTOXX 50 KRW HEDGED ON DECREMENT 3.5% ER INDEX

54.1. EURO iSTOXX 50 KRW HEDGED ON DECREMENT 3.5% ER INDEX

54.1.1. OVERVIEW

The EURO iSTOXX 50 KRW Hedged on Decrement 3.5% ER Index aims to replicate the daily hedging of the self-financed excess return of the EURO STOXX 50 Gross Return EUR index with a 3.5% decrement in KRW.

For daily hedged indices, the hedging trade is determined based on the values at the end of each calendar month. Thereafter, the excess returns of the index are daily adjusted to hedge the currency movements in the EURKRW rate.

Base value and date: 1000 on September 30, 2009

Underlying index: EURO STOXX 50 Gross Return EUR

Index Type: Price

Index Currency: KRW

Dissemination calendar: STOXX Europe Calendar

54.1.2. CALCULATIONS

$$H_IDX_t = H_IDX_{t_r} \times \left(1 + \left(\frac{UHL_IDX_EX_t}{UHL_IDX_EX_{t_r}} - 1\right) \times \frac{FF_{t_r}}{FF_t} + \sum_{d=1}^{t} \left(\left(\frac{UHL_IDX_EX_{d-1}}{UHL_IDX_EX_{t_r}} - 1\right) \times FF_{t_r} \times \left[\frac{1}{IFF_{d-1}} - \frac{1}{IFF_d}\right]\right)\right)$$

where

$$UHL_IDX_EX_t = UHL_IDX_EX_{t-1} \times \left(\frac{UHL_IDX_t}{UHL_IDX_{t-1}} - EONIA_{t-1}\frac{Act(t-1,t)}{360}\right)$$

and

$$UHL_IDX_t = UHL_IDX_{t-1} \times \left(\frac{SX5GT_t}{SX5GT_{t-1}} - 3.5\%\frac{Act(t-1,t)}{365}\right)$$

Where

H_IDX_t	Index value on day *t*
t_r	Last calculation day of preceding month (reset date)

54. EURO iSTOXX 50 KRW HEDGED ON DECREMENT 3.5% ER INDEX

τ	day of index calculation i.e. number of calendar days since t_r
T	number of calendar days in current month
FX_t	KRWEUR spot rate on day t, obtained using WM/Reuters fixing at 5am GMT
FF_t	1W NDF KRWEUR rate on day t, obtained using WM/Reuters fixing at 5am GMT
FM_t	1M NDF KRWEUR rate on day t, obtained using WM/Reuters fixing at 5am GMT
IFF_t	The interpolated forward rate for day t, expressed as units of EUR per unit of KRW, $FX_t + (1 - \frac{\tau}{T}) \cdot (FM_t - FX_t)$
$SX5GT_t$	EURO STOXX 50 Gross Return EUR for day t

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

55.1. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

55.1.1. OVERVIEW

The EURO iSTOXX Responsibility Screened Select 30 Index tracks the performance of 30 liquid stocks with low volatility and high dividend yield. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies that are non-compliant with the Global Standards Screening (GSS) assessment or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Military Contracting, Gambling, Adult Entertainment, Thermal Coal, Nuclear Power, Tobacco and Genetically Modified Plants and Seeds, are also excluded.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

55.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the below information:

i. 3-month and 12-month historical volatility in EUR
ii. 3-month Average Daily Traded Volume (ADTV) in EUR
iii. 12-month historical gross dividend yield
iv. ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model
v. Product Involvement information on: Thermal Coal, Tobacco, Nuclear Power, Adult Entertainment, Gambling, Alcohol, Genetically Modified Plants and Seeds and Weapons (Military Contracting)

If any of the fields i), ii), iv) and v) above have missing information for a stock, then that company is excluded from the selection process. If information on field iii) is missing, then a score of 0 is assigned to them instead.

The screening filters below are then applied on the initial universe, in the order they are listed, such that the selection list constitutes of stocks that:

- Are not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- Are not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- Do not have any Product Involvement in the following areas[55]:

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>25% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>5% revenues from supplying tobacco-related products/services

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:
»>0% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators

Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>5% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants

[55] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>10% revenues from the distribution of adult entertainment materials

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from owning and/or operating a gambling establishment
»>0% revenues from manufacturing specialized equipment used exclusively for gambling
»>0% revenues from providing supporting products/services to gambling operations

Alcohol:

STOXX will exclude companies that Sustainalytics identifies as manufacturers of alcoholic beverages (>5% revenue threshold).

Genetically Modified Plants and Seeds:

STOXX will exclude companies that Sustainalytics identifies as being involved in the development and/or cultivation of genetically modified seeds and/or plants (>0% revenue threshold).

Military Contracting:
STOXX will exclude companies that Sustainalytics identifies to have:
»>5% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>5% revenues from tailor made products and/or services that support military weapons

- Fall above the 25th percentile in terms of ESG scores, within their respective peer group, as defined by Sustainalytics[56]

[56] Traditional sector classifications do not accurately reflect the specifics of ESG research: Sustainalytics have therefore created the concept of peer groups to classify companies that are highly similar from an ESG perspective. Sustainalytics currently classifies companies according to the following 42 peer groups

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

- Have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR

Composition list: The final composition list with the 30 securities is derived by following the steps below:

1) All stocks from the selection list are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top 50% lowest volatility stocks, rounded down to the previous integer, are selected. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest historical gross dividend yield.
2) Subsequently, the remaining stocks are sorted in descending order in terms of their historical gross dividend yield. In case two companies have the same dividend yield, priority is given to the one with the lowest volatility. Moreover, if any companies with zero dividend yield are remaining at this step, they are excluded. The rest of the companies are individually assessed from top to bottom in the ranking list, for eligibility in the index based on the two diversification constraints listed below. The final composition consists of the 30 companies with the highest dividend yield that ensure the conditions below apply:

a. Industry

Effective up until September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

b. Country

Maximum 6 companies per country

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with companies with lowest volatility) is incremented by 1, and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

55.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

55. EURO iSTOXX RESPONSIBILITY SCREENED SELECT 30 INDEX

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

56.1. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

56.1.1. OVERVIEW

The iSTOXX Europe Responsibility Low Vol 30 Index tracks the performance of 30 liquid stocks with low volatility. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies that are non-compliant with the Global Standards Screening (GSS) assessment or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Animal Testing, Weapons, Gambling, Adult Entertainment, Thermal Coal, Nuclear Power, Tobacco, Conventional Oil & Gas, Unconventional Oil & Gas Genetically Modified Plants and Seeds, are also excluded. Moreover, companies involved in incidents and events that may pose a business or reputation risk to a company due to the potential impact on stakeholders or the environment identified by Sustainalytics Controversies Research are excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Europe 600 Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

56.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the below information:

i. 3-month and 12-month historical volatility in EUR
ii. 3-month Average Daily Traded Volume (ADTV) in EUR
iii. ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model
iv. Product Involvement information on: Animal Testing, Weapons, Gambling, Adult Entertainment, Thermal Coal, Nuclear Power, Tobacco, Conventional Oil & Gas, Unconventional Oil & Gas and Genetically Modified Plants and Seeds.
v. Controversies assessment on: Involvement in incidents with negative environmental, social and governance (ESG) implications.

If any of the fields i), ii), iii) and iv) above have missing information for a stock, then that company is excluded from the selection process. If information on field v) is missing, then a score of 0 is assigned to them instead.

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

The screening filters below are then applied on the initial universe, in the order they are listed, such that the selection list constitutes of stocks that:

1. Fall above the 20th percentile in terms of ESG score.

2. Are not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

3. Are not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

   » Internal production or sale of controversial weapons
   » The ultimate holding company owns >10% of voting rights of an involved company
   » >10% of voting rights of a company is owned by the involved company

4. Do not have any Product Involvement in the following areas[57]:

   Animal Testing:
   »>0% revenues related to animal testing for non-pharmaceutical products

   Thermal Coal:
   »>5% revenues from thermal coal extraction (including thermal coal mining and exploration)
   »>10% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

   Tobacco:
   »>5% revenues from manufacturing tobacco products
   »>5% revenues from supplying tobacco-related products/services
   »>5% revenues from the distribution and/or retail sale of tobacco products.

   Nuclear Power:
   »>0% revenues from nuclear power production:
   - **Utilities that own/operate nuclear power generators**

[57] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>0% revenues from nuclear power supporting products / services, including:

- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>5% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Adult Entertainment:
»>0% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>10% revenues from the distribution of adult entertainment materials

Gambling:
»>0% revenues from owning and/or operating a gambling establishment
»>10% revenues from manufacturing specialized equipment used exclusively for gambling
»>10% revenues from providing supporting products/services to gambling operations

Alcohol:
»>5% revenues from manufacturing alcoholic beverages
»>10% revenues from the distribution and/or retail of alcoholic beverages

Genetically Modified Plants and Seeds:
»>0% revenues from the development and/or cultivation of genetically modified seeds and/or plants
»>0% revenues from growing genetically modified crops

Weapons

i) Small Arms:
»>0% revenues from manufacturing and selling assault weapons to civilian customers
»>0% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
»>0% revenues from manufacturing and selling key components of small arms
»>0% revenues from retail and/or distribution of assault weapons

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

»>0% revenues from retail and/or distribution of small arms (non-assault weapons)
»>0% revenues from manufacturing and selling small arms to military / law enforcement customers

ii) Military Contracting:
»>0% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>5% revenues from non-weapons related tailor-made products and/or services
to the military or defence industry
»>5% revenues from tailor made products and/or services that support military weapons

Conventional Oil & Gas:
»>25% revenues from oil and gas exploration, production, refining, transportation and/or storage This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).

Unconventional Oil & Gas:

i) Arctic Oil and Gas Exploration:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:
»>0% revenues from shale energy exploration and/or production

5. Are not categorized in incidents in the following areas:

Controversies Sustainalytics	Category Exclusion
Access to Basic Services	>= 4
Accounting and Taxation	>= 4
Animal Welfare - SC	>= 4
Animal Welfare	>= 4
Anti-Competitive Practices	>= 4
Bribery and Corruption - SC	>= 4
Bribery and Corruption	>= 4
Business Ethics - SC	>= 4

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

Business Ethics	>= 4
Carbon Impact of Products	>= 4
Community Relations - SC	>= 4
Community Relations	>= 4
Corporate Governance	>= 4
Data Privacy and Security	>= 4
E.1.12 Operations Incidents	>= 4
E.2.2 Environmental Supply Chain Incidents	>= 4
E.3.2 Product & Service Incidents	>= 4
Emissions, Effluents and Waste - SC	>= 4
Emissions, Effluents and Waste	>= 4
Employees - Human Rights - SC	>= 4
Employees - Human Rights	>= 4
Energy Use and GHG Emissions - SC	>= 4
Energy Use and GHG Emissions	>= 4
Environmental Impact of Products	>= 4
G.1.5 Business Ethics Incidents	>= 4
G.2.13 Governance Incidents	>= 4
G.3.4 Public Policy Incidents	>= 4
Intellectual Property	>= 4
Labour Relations - SC	>= 4
Labour Relations	>= 4
Land Use and Biodiversity - SC	>= 4
Land Use and Biodiversity	>= 4
Lobbying and Public Policy	>= 4
Marketing Practices	>= 4
Media Ethics	>= 4
Occupational Health and Safety - SC	>= 4
Occupational Health and Safety	>= 4
Quality and Safety	>= 4
Resilience	>= 4
S.1.7 Employee Incidents	>= 4
S.2.3 Social Supply Chain Incidents	>= 4
S.3.3 Customer Incidents	>= 4
S.4.3 Society & Community Incidents	>= 4
Sanctions	>= 4
Social Impact of Products	>= 4

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

Society - Human Rights - SC	>= 4
Society - Human Rights	>= 4
Water Use - SC	>= 4
Water Use	>= 4
Weapons	>= 4

6. Have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR

Composition list: The final composition list with the 30 securities is derived by following the steps below:

1) Low Volatility filter applying the following criteria:
   a. As a first step, the calculation of the maximum between the two Z -Scores (inverse of the 3-month and inverse of the 12-month price volatility in EUR)
   b. Constituents with an absolute value of the Z – Score higher than 5 (|Z – Score| >5) in the step above are excluded.

2) Remaining Constituents are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top 30 companies with the lowest volatility are selected considering the conditions below:

   a. Industry
   Maximum of 6 components out of the total 30 coming from each of 11 ICB industries.

   b. Country
   Maximum 6 companies per country

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

56. iSTOXX EUROPE RESPONSIBILITY LOW VOL 30 INDEX

σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

56.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

57. iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 INDEX

57.1. iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 INDEX

57.1.1. OVERVIEW

The iSTOXX Global Cities of Tomorrow Select 30 Index allows a targeted investment in the sustainable smart city megatrend. The index is comprised of 30 liquid stocks with low volatility and high dividend yield. The components are selected from a pool of companies that are addressing the needs of the cities and citizens of the future. These companies provide a diverse set of solutions, for which demand is constantly increasing as it is driven by growing urban population, limited natural resources and increasing focus on environmental sustainability. Moreover, eligible companies are screened by ESG scores to result in a selection of leaders with regards to environmental, social and governance criteria. Industry, region and country neutrality filters are applied in the selection process to ensure diversification.
Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Gambling, Adult Entertainment, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco, Aerospace and Defense are also excluded.
Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the 'sustainable smart city' megatrend.

Universe: The index universe is defined by all the stocks included in the STOXX Developed and Emerging Markets Total Market Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

57.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, an ESG score of 0 is assigned instead. The companies in the parent index are then ranked in descending order in terms of their ESG scores, and the 50% companies with the lowest ESG scores, rounded upwards to the next integer, are excluded from the selection process. In case two companies for a given cutoff date have the same ESG score,

57.iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 INDEX

priority is given to the one with the with the highest dividend yield. In case two securities have the same ESG score and dividend yield, then priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

The remaining companies are then screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco
v. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.
Information for field v) is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cutoff date is used. If this information is missing, then the company is excluded from the selection process

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR
- **Global Standards Screening**: not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- **Controversial Weapons**: Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[58]:

[58] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

57.iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 INDEX

Weapons:

i) Small Arms:

STOXX will exclude companies that Sustainalytics identifies to have:

»>10% revenues from manufacturing and selling assault weapons to civilian customers

»>10% revenues from manufacturing and selling small arms to military / law enforcement customers

»>10% revenues from manufacturing and selling key components of small arms

»>10% revenues from retail and/or distribution of assault weapons

»>10% revenues from retail and/or distribution of small arms (non-assault weapons)

assault weapons)

»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons

»>10% revenues from tailor made products and/or services that support military weapons

»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:

»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments

»>25% revenues from the distribution of adult entertainment materials

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:

»>25% revenues from owning and/or operating a gambling establishment

»>25% revenues from manufacturing specialized equipment used exclusively for gambling

»>25% revenues from providing supporting products/services to gambling operations

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to have:

»>0% revenues from manufacturing tobacco products

»>0% revenues from supplying tobacco-related products/services

»>0% revenues from the distribution and/or retail sale of tobacco products.

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:

»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)

»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Conventional Oil & Gas:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas
i) Arctic Oil and Gas Exploration:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
ii) Oil Sands:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
iii) Shale Energy:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Nuclear Power:
STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:
Utilities that own/operate nuclear power generators
Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>25% revenues from nuclear power supporting products / services, including:
Design and construction of nuclear power plants
Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate
»>25% revenues from nuclear power distribution, including:
The resale or distribution of electricity generated from nuclear power;

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This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

- **ICB exclusions** (supplementing Product Involvement): Effective up until September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (2713, 2717 ICB codes). Effective with September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 codes).
- **Revenues**: Aggregated revenue exposure equal to or exceeding 25%, from the RBICS sectors associated with "Cities of Tomorrow" (see table below)
- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe, only the most liquid share line is retained

List of RBICS sectors associated with "Cities of Tomorrow" for the purposes of component selection:

Nr	Sector	Nr	Sector
1	3D Modeling/Rapid Prototyping Automation Providers	168	Landfill Services
2	Access Systems Manufacturing	169	Lasers and Optical Instrument Manufacturing
3	Active and Intermediate Chemicals OEMs	170	Latin America Banks
4	Africa Banks	171	Life and Health Reinsurance
5	Air Purification and Filtration Equipment Products	172	Light Emitting Diode Discrete Semiconductors
6	Air, Liquid and Gas Control Equipment Products	173	Lime and Gypsum Products Manufacturing
7	Alarm Systems Manufacturing	174	Liquid and Water Purification/Filtration Products
8	Alt. Energy Autonomous Heavy Duty Truck Makers	175	Locks and Deadbolts Manufacturing
9	Alt. Energy Autonomous Transit Vehicle Production	176	Manufactured Building Makers
10	Alt. Energy Motor Homes and Campers (RVs) Makers	177	Mapping/Geographic Information Systems Software
11	Alt. Energy Recreation Vehicle Manufacturing	178	Metal Recycling Providers
12	Alternative Energy Boats Makers	179	Mexico Mixed Telecommunications Services
13	Alternative Energy Car Manufacturers	180	Mexico Wireline Services
14	Alternative Energy Heavy Duty Trucks Makers	181	Microprocessor (MPU) Semiconductors
15	Alternative Energy Motorcycles Makers	182	Middle East and Africa Mixed Telecom Services
16	Alternative Energy Transit Vehicles Makers	183	Middle East and Africa Wireless Services
17	Asia (Excluding China) Wireless Services	184	Middle East and Africa Wireline Services
18	Asia (Excluding China) Wireline Services	185	Middle East Banks
19	Asia Excluding China Mixed Telecommunications	186	Minimills Manufacturing Flats
20	Asia/Pacific Investment Banking/Corporate Finance	187	Mining and Excavation Equipment Manufacturing
21	Australia and New Zealand Banks	188	Miscellaneous Mortgage Banking Services
22	Australia and New Zealand Wireless Services	189	Mixed Architecture/Infrastructure Component Makers
23	Australia and New Zealand Wireline Services	190	Mixed Building/Physical Security Equipment Makers

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24	Australia/New Zealand Mixed Telecom Services
25	Auto Insurance
26	Auto Reinsurance
27	Automobile Financing
28	Autonomous Drone Manufacturers
29	Autonomous Drone Parts Manufacturers
30	Autonomous Vehicles Semiconductors
31	Biologics OEMs
32	Building Construction
33	Building Maintenance and Engineering Services
34	Bulge Bracket Investment Banking
35	Bus Transportation
36	Business Intelligence/Data Warehousing Consulting
37	Cabinets and Countertops Manufacturing
38	Cable Equipment
39	Cable Interconnect Components
40	Canada Banks
41	Canada Investment Banking and Corporate Finance
42	Canada Mixed Telecommunications Services
43	Canada Wireline Services
44	Cardiology Surgical Devices
45	Carrier Core (Backbone) Equipment
46	Carrier Edge Network Management Equipment
47	Cellular Site Equipment
48	Cement Manufacturing
49	Central and Eastern Europe Mixed Telecom Services
50	Central and Eastern Europe Wireless Services
51	Central and Eastern Europe Wireline Services
52	Central and South America Mixed Telecom Services
53	Central and South America Wireless Services
54	Central and South America Wireline Services
55	China Mixed Telecommunications Services
56	China Wireless Services
57	China Wireline Services
58	Clinical Limited Service CROs
59	Closed Circuit Television (CCTV) Systems/Products
60	Colocation and Data Center Services
61	Commercial Mortgage Banking and Services
62	Commercial Property Insurance
63	Commercial Vehicle Commercial Insurance
191	Mixed Electronic Transaction Processing
192	Mixed Heavy Building Materials/Aggregates Makers
193	Mixed International Telecommunications Services
194	Mixed Renewable Energy Generation Manufacturing
195	Mixed Specialty and Commodity Chemical Makers
196	Money Transfer Services
197	Monitoring and Control Sensor/Instrument Products
198	Mortgage Guaranty Insurance
199	Mortgage Loan Servicing
200	Mortgage Origination Services
201	Multi-Industry-Specific Factory Machinery Makers
202	Multinational Banks
203	Multinational Investment Banking Companies
204	Multi-Product Adhesive, Sealant and Paint Makers
205	Multi-Type Commercial Insurance
206	Multi-Type Passenger Transportation
207	Multi-Type United States Wireless Services
208	Multi-Type United States Wireline Services
209	Network Administration Software
210	Network Design and Implementation Consulting
211	Network Security Software
212	Networking Semiconductors
213	Neurology Devices
214	Northern Europe Banks
215	Oncology Devices
216	Optoelectronics Electronic Components
217	Oriented Strand Board (OSB) Manufacturing
218	Other Asia/Pacific Banks
219	Other Biopharmaceutical OEMs
220	Other Carrier Services
221	Other Cellular Phones Manufacturing
222	Other Chemistry Clinical Diagnostics Devices
223	Other Communications Semiconductors
224	Other Construction Wood Products Makers
225	Other Core Infrastructure Equipment
226	Other Design and Engineering Software
227	Other Environmental Control Machine Manufacturing
228	Other Handheld and Smart Phone Software
229	Other Healthcare and Pharma Industry Software
230	Other Interconnect Components

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64	Compressor and Pumping Equipment Manufacturing
65	Computer Aided Design (CAD) Software
66	Concrete Blocks, Bricks and Aggregates Makers
67	Construction and Mining Machinery Distributors
68	Construction Commercial Insurance
69	Conventional Autonomous Transit Vehicles Makers
70	Conventional Engine Autonomous Truck Makers
71	Credit Cards
72	Customer Premises Network Security Equipment
73	Data Storage Infrastructure Software
74	Data Transport Carrier Services
75	Decorative Component Manufacturing
76	Design, Integration and Implementation Consulting
77	Diabetes Diagnostic Testing Devices
78	Diabetes Home Monitoring Devices
79	Disk Storage Systems
80	Diversified Bioanalytical Instruments
81	Diversified Commercial Insurance
82	Diversified Contract Manufacturing Organizations
83	Diversified Development and Manufacturing Services
84	Diversified Electrical/Power System Manufacturing
85	Diversified General Waste Collection
86	Diversified Hazardous Materials Disposal
87	Diversified Healthcare Business Management
88	Diversified Life and Health Insurance
89	Diversified Mortgage Banking
90	Diversified Property and Casualty Reinsurance
91	Diversified Residential Mortgage Banking/Services
92	Diversified Satellite Services
93	Diversified Semiconductor Manufacturing Services
94	Diversified Technology Hardware
95	Eastern Europe Banks
96	Education Information and News Media and Sites
97	Educational Support Services
98	Electric Vehicle Charging Stations
99	Electrical Systems and Equipment Manufacturing
100	Electronic Interconnect Components
101	Electronic Payment Processing
102	Electronic Security Identification Equipment
103	Electronic System Security Equipment
231	Other Local Area Networking Equipment
232	Other Memory Semiconductors
233	Other Metal Processing and Recycling Providers
234	Other Network Software
235	Other Nonvolatile Memory Semiconductors
236	Other Optoelectronics Discrete Semiconductors
237	Other Post-Secondary Education
238	Other Processor Semiconductors
239	Other Satellite Equipment
240	Other Supplemental Health Insurance
241	Other Telecommunications Industry Software
242	Other Test and Measurement Equipment
243	Other United States Commercial Banks
244	Other United States Wireline Voice Services
245	Other Waste Services
246	Other Wide Area Networking (WAN) Equipment
247	Other Wireless Equipment
248	Paints Manufacturing
249	Pan-America Wireless Services
250	Pan-Americas Investment Banking/Corporate Finance
251	Pan-Americas Mixed Telecommunications Services
252	Pan-Asia/Pacific Mixed Telecommunications Services
253	Pan-EMEA Banks
254	Pan-Europe Mixed Telecommunications Services
255	Parking Facility Services
256	Passenger Car Rental
257	Passenger Rail Transportation
258	Patient Data Management Software
259	Peripheral Semiconductors
260	Photovoltaic and Solar Cells and Systems Providers
261	Pipes and Pipe Fittings Manufacturing
262	Plumbing Fixtures and Trim Manufacturing
263	Point of Care Testing Kits
264	Power, Control and Mixed Signal Semiconductors
265	Programmable Logic Device Semiconductors
266	Property Reinsurance
267	Public Infrastructure Components Manufacturing
268	Ready-Mix Concrete Makers
269	Real Estate Classifieds and Directories Sites
270	Real Estate Fund Managers

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104	Electronic Waste Services
105	EMEA Investment Banking and Corporate Finance
106	Emission Control Services and Technologies
107	Energy Efficient Lighting and LED Manufacturing
108	Enterprise Middleware Software
109	Enterprise Security Management Software
110	Environmental Consulting
111	Environmental Services
112	Europe Banks
113	Financial Guaranty Commercial Insurance
114	Fitness and Exercise Equipment
115	Fitness and Recreational Sports Centers
116	Fixed Microwave Systems Equipment
117	Flash Memory Semiconductors
118	Flooring Manufacturing
119	Food Delivery Services
120	Fuel Cell Equipment and Technology Providers
121	Garbage Services
122	General Analog and Mixed Signal Semiconductors
123	General Architectural Component Manufacturing
124	General Building Materials Distribution
125	General Carrier Edge (Access) Equipment
126	General Clinical Diagnostics Devices
127	General Coatings and Paints Makers
128	General Commercial Finance
129	General Communications Equipment
130	General Communications Services
131	General Construction Materials Manufacturing
132	General Consumer Finance Services
133	General Customer Premises Equipment (CPE)
134	General Infrastructure and Network Consulting
135	General Liability Commercial Insurance
136	General Surgical Devices
137	General United States Telecommunications Services
138	Genetic Molecular Diagnostic Test Kits
139	Geothermal Energy Equipment Manufacturing
140	Government and Public Service Industry Software
141	Government IT Services
142	Grocery Delivery Services
143	Hardware, Plumbing and HVAC Supplies
271	Recycling Services
272	Residential Mortgage REITs
273	Residential Property Owners
274	Residential Specialty Engineering Contractors
275	RF Analog and Mixed Signal Semiconductors
276	RFID Asset Tracking Equipment Manufacturing
277	Security and Management Consulting
278	Server Computer Systems
279	Smart Grid Technology and Smart Meter Products
280	Smart Phone Manufacturing
281	Software Design and Engineering Consulting
282	Soil Remediation
283	Solid Waste Recycling Equipment Manufacturing
284	Southern Europe Banks
285	Specialty Analog and Mixed Signal Semiconductors
286	Structural Support Component Manufacturing
287	Surgical Robotic Systems
288	Tandem Interconnection Services
289	Telecommunications Construction
290	Telecommunications Customer Relationship Software
291	Telecommunications Operations Support Software
292	Test and Measurement Communications Equipment
293	Tools and Outdoor Care Building Hand Tool Products
294	Traffic Safety and Management Equipment Products
295	Transportation Construction
296	United States East South Central Commercial Banks
297	United States Long Distance Voice Services
298	United States Midwest Commercial Banks
299	United States Northeast Commercial Banks
300	United States Pacific Commercial Banks
301	United States Satellite Services
302	United States South Atlantic Commercial Banks
303	United States Southern Commercial Banks
304	United States Video and Television Services
305	United States West South Central Commercial Banks
306	United States Western Commercial Banks
307	United States Wireless Business Data Services
308	United States Wireless Voice Services
309	United States Wireline Business Data Services
310	United States Wireline Data Services

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144	Hazardous/Industrial Waste Disposal
145	Health Insurance
146	Healthcare Management Software
147	Healthcare Operations Support Software
148	Heating, Ventilation and Air Conditioning Products
149	Home Builders
150	Home Builders and Manufactured Buildings
151	Home Testing Clinical Diagnostics Devices
152	Homeowners and Renters Insurance
153	Household Robot Makers
154	Hydroelectric Power Generation Equipment Providers
155	Hydrogen Fuel Manufacturing
156	IC-Level Electronic Design Software
157	IC-Level Intellectual Property Software Libraries
158	Image Sensor and Image Capture Semiconductors
159	Immunoassays Clinical Diagnostics Devices
160	Industrial and Engineering Hand Tool Manufacturing
161	Information Storage Systems
162	Infrastructure Consulting and Design Services
163	Insulation Manufacturing
164	Integrated Steel Mills Mixed Production Makers
165	Interior/Exterior Covering Materials Distribution
166	International Fixed Satellite Services
167	International Mobile Satellite Services
311	US Investment Banking and Corporate Finance
312	US Territories and Puerto Rico Commercial Banks
313	US Voice Over IP Telephony (VoIP) Services
314	Utility Meter Manufacturing
315	Vehicle Autonomous Control Electronics Makers
316	Vehicle Autonomous Control Software
317	Virtual Reality Design and Engineering Software
318	Virtual Reality Equipment
319	Volatile Memory Semiconductors
320	Waste-to-Energy Services
321	Wastewater Residual Management
322	Wastewater Treatment Services
323	Water Treatment Agents Manufacturing
324	Wave Energy Equipment Manufacturing
325	Western Europe Banks
326	Western Europe Mixed Telecommunications Services
327	Western Europe Wireless Services
328	Western Europe Wireline Services
329	Windows and Doors Manufacturing
330	Wireless and Wi-Fi Equipment
331	Wireless Infrastructure Services
332	Wireline Equipment
333	Wireline Infrastructure Services

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).
2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Industry

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Effective up until September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, maximum of 6 components out of the total 30 coming from each of 11 industrial groupings, identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

b. Region

12 components in the final compositions should be coming from the North America region (as defined below), 10 components from Europe, and 8 from the rest of the world.

The 3 aforementioned geographic regions are defined as follows:

- North America: components of the STOXX Developed and Emerging Total Market Index, that are also components of either the STOXX USA Total Market Index or the STOXX Canada Total Market index

57.iSTOXX GLOBAL CITIES OF TOMORROW SELECT 30 INDEX

- Europe: components of the STOXX Developed and Emerging Total Market Index, that are also components of the STOXX All Europe Total Market Index
- Rest of the world: all components of the STOXX Developed and Emerging Total Market Index that don't belong in any of the 2 above regions

c. Country

For each country i, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$K_i = (SXGBM_i + 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Cities of Tomorrow Select 30 Index

$SXGBM_i$ weight of the components coming from country i, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Cities of Tomorrow Select 30 Index

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($Z = Z + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

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Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

57.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

58. iSTOXX ESG TREND SELECT 30 INDEX

58.1. iSTOXX GLOBAL ESG TREND SELECT 30 INDEX

58.1.1. OVERVIEW

The iSTOXX Global ESG Trend Select 30 Index selects 30 liquid stocks with low volatility and high dividend yield, that have improved or maintained their ESG scores in the last year. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Adult Entertainment, Gambling, Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Nuclear Power, Thermal Coal, Tobacco, Weapons (Small Arms and Military Contracting), Aerospace and Defense are also excluded. An additional filter excludes poor ESG performers from the index. Industry and country neutrality filters are applied to ensure diversification.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective dates

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

58.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following information:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Current ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model
v. ESG scores calculated by Sustainalytics in the corresponding review cutoff date one year prior to the current review cutoff date
vi. Product Involvement information on: Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco and Weapons (Small Arms and Military Contracting)

If any of the fields i) to vi) above have missing information for a stock, then that company is excluded from the selection process.

The screening filters below are then applied on the initial universe, in the order they are listed, such that the remaining stocks fulfil the conditions below:

58. iSTOXX ESG TREND SELECT 30 INDEX

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR
- Suspension from trading for not more than 10% of the STOXX Calendar trading days:

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

- Effective up until September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (2713, 2717 ICB codes).
  Effective with September 2020 review, not belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 ICB codes).

- **Global Standards**: Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons**: Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company
- Not have any Product Involvement in the following areas[59]:

  Adult Entertainment:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
  »>25% revenues from the distribution of adult entertainment materials

  Gambling:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>25% revenues from owning and/or operating a gambling establishment
  »>25% revenues from manufacturing specialized equipment used exclusively for gambling
  »>25% revenues from providing supporting products/services to gambling operations

  Conventional Oil & Gas:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>0% revenues from oil and gas exploration, production, refining, transportation and/or storage

[59] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:

- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:

- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:

- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)

58. iSTOXX ESG TREND SELECT 30 INDEX

»>0% power generation capacity from coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operate coal-fired power plants).

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

Weapons:

i) Small Arms:
STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing and selling assault weapons to civilian customers
»>10% revenues from manufacturing and selling small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:
STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

For the resulting list of securities, the following steps are applied before the final selection list is obtained:

1) For each security in the resulting list, an *ESG trend* score is calculated as follows:

$$\text{ESG trend}_t = \text{ESG score}_t - \text{ESG score}_{t-1}$$

Where:
- t: review cutoff date
- $t-1$: the corresponding review cutoff date, a year prior to t
- ESG score_t: the ESG score of the security on the review cutoff date t
- ESG score_{t-1}: the ESG score of the security on the cutoff date $t-1$, the cutoff date a year prior to t

2) Only securities with $\text{ESG trend}_t \geq 0$ are considered for selection, and the rest are excluded from the list.

3) The remaining securities are sorted in descending order of their ESG score_t, and only the top 80% (rounded down to the nearest integer) of the companies with highest ESG scores are considered for selection and constitute the selection list. In this ranking process, in case two companies have the same ESG score_t, then priority is given to the one with the highest ESG trend_t.

58. iSTOXX ESG TREND SELECT 30 INDEX

Composition list: The final composition list with the 30 securities is derived by following the steps below:

1) All securities from the selection list are first ranked in ascending order of their volatility (maximum between 3-month and 12-month historical volatility in EUR), and the 200 stocks with the lowest volatility are selected. In case two securities have the same volatility for a given review cutoff date, priority is given to the one with the highest historical gross dividend yield.
2) Subsequently, the remaining stocks are sorted in descending order in terms of their historical gross dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. Moreover, if two eligible securities have the same 12-month gross dividend yield, priority is given to the security with the lowest volatility (maximum between 3-month and 12-month historical volatility in EUR). The 30 securities with the highest dividend yield are selected in such a way that the following conditions are met:

a. Country

For each country i, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$K_i = (SXW1_i + 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global ESG Trend Select 30 Index

$SXW1_i$ weight of the components coming from country i, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global ESG Trend Select 30 Index

b. Industry

Effective up until September 2020 review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

58. iSTOXX ESG TREND SELECT 30 INDEX

Effective with September 2020 review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

For each industry j of the 11 industrial groupings above, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$D_j = (SXW1_j + 10\%) * N$$

where:

D_j maximum number of components from industry j, allowed for inclusion in the iSTOXX Global ESG Trend Select 30 Index

$SXW1_j$ weight of the components coming from industry j, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global ESG Trend Select 30 Index

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (200 companies with lowest volatility) is incremented by 1, initially to 201, and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

58. iSTOXX ESG TREND SELECT 30 INDEX

σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

58.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the corresponding universe, which remain in the STOXX Developed Markets Total Market Index are not deleted from the index.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

59. EURO iSTOXX ESG CHOICE 50 EW INDEX

59.1. EURO iSTOXX ESG CHOICE 50 EW INDEX

59.1.1. OVERVIEW

The EURO iSTOXX ESG Choice 50 EW Index is constructed from the EURO STOXX index after standardized ESG exclusion screens are applied for Global Standards, Controversial Weapons, Thermal Coal and Tobacco Producers. The objective is to identify 50 companies with the largest free-float market capitalization in the eligible universe after screening by the respective ESG scores to result in a selection of leaders with regards to environmental, social, and governance criteria.

Universe: The index universe is defined by all the stocks included in the EURO STOXX, as observed on the review effective date.

Weighting scheme: the index is price-weighted with weighting factors to achieve equal weighting

Base values and dates: 100 on March 16, 2012

Index types and currencies: Price, Net and Gross Return in EUR, USD

Dissemination calendar: STOXX Europe calendar

59.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index.

From the universe, a set of exclusion criteria are applied which follow the Global Standards Screening (GSS) assessment, a set of definitions for Controversial Weapons, Tobacco and Coal.

Global Standards Screening :
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale of controversial weapons

59. EURO iSTOXX ESG CHOICE 50 EW INDEX

» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to be tobacco producers (0% revenue threshold).

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>25% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

All stocks in the eligible universe are then screened for their individual Environment, Social and Governance scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, the company will be excluded from the selection process. For the remaining eligible companies in the universe, a percentile rank is assigned for each of the three criteria i.e. each company has a rating for environmental, social and governance sustainability score.

The selection of leading companies in terms of sustainability is based the following steps:

Minimum Filter (Top 50%):
Only companies that are ranked in the top 50% in all three criteria are eligible

Leadership Filter (Top 25%):
A leadership filter is then applied to each of the criterion individually. The eligible company must rank in the top 25% in at least one field of corporate sustainability i.e. environment, social, or governance sustainability.

Composition list: The largest 50 companies in terms of free-float market capitalization of the selection list are selected for the final composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December, in line with the parent index. The review effective date is the dissemination day following the third Friday of each review month.

Weighting factors: The constituents are equal weighted on a quarterly basis, based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Derived indices: The EURO iSTOXX ESG Choice 50 EW EUR Net Return Index serves as the input for the EURO iSTOXX ESG Choice 50 EW NR Decrement 4% Index

59.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

59. EURO iSTOXX ESG CHOICE 50 EW INDEX

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

60. EURO iSTOXX 50 ER 1.2 MONTHLY LEVERAGE KRW INDEX

60.1. EURO iSTOXX 50 ER 1.2 MONTHLY LEVERAGE KRW INDEX

60.1.1. OVERVIEW

The EURO iSTOXX 50 ER 1.2 Monthly Leverage KRW Index replicates the 1.2 times leveraged excess returns of the EURO STOXX 50® Index with a monthly reset of the leveraged notional. The excess returns are adjusted for EURKRW movements on a monthly basis.

Index types and currencies: KRW Price

Base value and date: 1000 on June 30, 2008

Underlying index: EURO STOXX 50

Dissemination calendar: STOXX Europe Calendar

The index value is calculated in full precision and published with two decimals.

60.1.2. CALCULATIONS

$$IV_t = IV_{t_r(t)}\left[1 + L \cdot \left(\frac{UI_t}{UI_{t_r(t)}} - 1 - IR_{t_r(t)} \cdot \frac{ACT(t_r(t), t)}{360}\right) \times \frac{FX_{t_r(t)}}{FX_t}\right]$$

$$FX_t = \frac{1}{EURUSD_t \cdot USDKRW_t}$$

where

IV_t	Index value on day *t*
t_r	Rebalancing date (last dissemination date of any calendar month)
$t_r(t)$	Rebalancing date immediately preceding day t (excluded, i.e. $t > t_r(t)$)
UI_t	Underlying index in EUR on day *t*
L	Leverage factor (1.2)
IR_t	3-month EURIBOR on day *t*
$ACT(t_1, t_2)$	Number of calendar days from t_1 (included) to t_2 (excluded)
$EURUSD_t$	Spot exchange rate (units of USD per unit EUR) on day *t*, 6 a.m. GMT WM fixing
$USDKRW_t$	Spot exchange rate (units of KRW per unit USD) on day *t*, 6 a.m. GMT WM fixing

61. EURO iSTOXX ESG CORE LEADERS 50 INDEX

61.1. EURO iSTOXX ESG CORE LEADERS 50 INDEX

61.1.1. OVERVIEW

The EURO iSTOXX ESG Core Leaders 50 Index is constructed from the EURO STOXX index after standardized ESG exclusion screens are applied for Global Standards, Controversial Weapons, Thermal Coal and Tobacco Producers. The objective is to identify 50 companies with the largest free-float market capitalization in the eligible universe after screening by the respective ESG scores to result in a selection of leaders with regards to environmental, social, and governance criteria.

Universe: The index universe is defined by all the stocks included in the EURO STOXX, as observed on the review effective date.

Weighting scheme: the index is price-weighted with weighting factors based on the environmental, social and governance scores.

Base values and dates: 100 on March 16, 2012

Index types and currencies: Price, Net and Gross Return in EUR, USD

Dissemination calendar: STOXX Europe calendar

61.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index.

From the universe, a set of exclusion criteria are applied which follow the Global Standards Screening (GSS), a set of definitions for Controversial Weapons, Tobacco and Coal.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

61. EURO iSTOXX ESG CORE LEADERS 50 INDEX

» Internal production or sale of controversial weapons
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to be tobacco producers (0% revenue threshold).

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>25% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

All stocks in the eligible universe are then screened for their individual Environment, Social and Governance scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, the company will be excluded from the selection process. For the remaining eligible companies in the universe, a percentile rank is assigned for each of the three criteria i.e. each company has a rating for environmental, social and governance sustainability score.

The selection of leading companies in terms of sustainability is based the following steps:

Minimum Filter (Top 50%):
Only companies that are ranked in the top 50% in all three criteria are eligible

Leadership Filter (Top 25%):
A leadership filter is then applied to each of the criterion individually. The eligible company must rank in the top 25% in at least one field of corporate sustainability i.e. environment, social, or governance sustainability.

Composition list: The largest 50 companies in terms of free-float market capitalization of the selection list are selected for the final composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December, in line with the parent index. The review effective date is the dissemination day following the third Friday of each review month.

Weighting factors: The components in the index are weighted according to the average of the three criteria percentile ranks:

$$w_i = \frac{ESG\ Rank_i}{\sum_{j=1}^{N} ESG\ Rank_j}$$

Where
wi = weight of component i

$$ESG\ Rank_i = \sum_{j=E,S,G} \frac{1}{3} \cdot Rank_{i,j}$$

N = number of components in the index

61. EURO iSTOXX ESG CORE LEADERS 50 INDEX

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Derived indices: The EURO iSTOXX ESG Core Leaders 50 EUR Net Return Index serves as the input for the EURO iSTOXX ESG Core Leaders 50 NR Decrement 4% Index

61.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

62. EURO iSTOXX EQUAL INDUSTRY ESG 30 INDEX

62.1. EURO iSTOXX EQUAL INDUSTRY ESG 30 INDEX

62.1.1. OVERVIEW

The EURO iSTOXX Equal Industry ESG 30 Index is comprised of companies from the EURO STOXX® Index that have demonstrated a comparatively good performance with regards to Environmental, Social and Governance criteria, compared to their industry peers. Moreover, the components are chosen in a way that ensures diversification across all industries by selecting an equal number of companies from each industry and allocating equal weights to each one of them.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective dates

Weighting scheme: The index is price-weighted with weighting factors to achieve a total weight of 10% per industry and equal weights among the components coming from each of them.

Base values and dates: The following base values and dates apply: 100 on Mar 19, 2003

Index types and currencies: Price, Net Return and Gross Return in EUR, USD

Dissemination calendar: STOXX Europe calendar

62.1.2. INDEX REVIEW

Selection list: The review cutoff date is the last dissemination day of the month preceding the review month, and upon this date all stocks in the base universe are screened for their current ESG scores as calculated by Sustainalytics' transparent ESG performance model. If this information is missing for a given stock, then that company is excluded from the selection. All remaining companies, constitute the selection list.

Moreover, all companies are screened for involvement in Controversial Weaponry and compliance with the Sustainalytics Global Standards Screening as defined below:

- Non-compliance as per the Global Standards Screening (GSS):
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- Involvement in Controversial Weapons activities, as identified by Sustainalytics.
  The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

If a company is considered non-compliant with the Global Standards, or involved in controversial weaponry, then an ESG score of 0 is assigned to it.

62. EURO iSTOXX EQUAL INDUSTRY ESG 30 INDEX

Composition list: Effective up until September 2020 review, all companies in the selection list are ranked by their free-float market capitalization, as of the review cut-off date - within their ICB Industry group. The six largest stocks from each industry group are selected for the next step of the selection process. In case one or more groups are comprised of less than six companies, less than 60 companies are allowed to proceed to the next step of the selection process.

Consequently, the remaining companies are sorted by their ESG scores in descending order within their corresponding ICB industries, and the three companies with the highest ESG scores from each industry are selected in the final composition list. In case two companies have the same ESG score, priority goes to the one with the highest free float market capitalization.

Effective with September 2020 review, each security in the selection list is allocated to one of ten industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industries 30 and 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

all companies in the selection list are ranked by their free-float market capitalization, as of the review cut-off date - within their ICB Industry group. The six largest stocks from each industry group are selected for the next step of the selection process. In case one or more groups are comprised of less than six companies, less than 60 companies are allowed to proceed to the next step of the selection process.

Consequently, the remaining companies are sorted by their ESG scores in descending order within their corresponding ICB industries, and the three companies with the highest ESG scores from each industry are selected in the final composition list. In case two companies have the same ESG score, priority goes to the one with the highest free float market capitalization.

Weighting cap factors: The industries represented in the index, as well as the companies within each industry, are equally weighted. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.
Weighting factor = (100,000,000,000 / closing price of the stock in EUR) and rounded to integers

Review frequency: The index is reviewed quarterly in March, June, September and December, in line with the parent index. The implementation of the review is conducted after the close of the third Friday of the respective review month and becomes effective on the next index dissemination day.

62. EURO iSTOXX EQUAL INDUSTRY ESG 30 INDEX

Derived indices: The EURO iSTOXX Equal Industry ESG 30 EUR Net Return Index serves as input for the EURO iSTOXX Equal Industry ESG 30 NR Decrement 5% and the EURO iSTOXX Equal Industry ESG 30 NR Decrement 4% indices (Section 9.32)

62.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spun-off stocks are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30 30

63.1. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

63.1.1. OVERVIEW

The iSTOXX Global Responsible Waste Management Select 30 Index is comprised of 30 liquid stocks with low volatility and high dividend yield that are selected from a pool of companies that are taking initiatives and implementing strong programmes within their business models towards efficient waste management. Industry and country neutrality filters are applied in the selection process to ensure diversification.
Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Gambling, Adult Entertainment, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco, Aerospace and Defense are also excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

63.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco
v. Scores on seven Environmental Key Performance Indicators from Sustainalytics' model that relate to the practices of collecting, transporting, processing or disposing of, managing and monitoring various waste materials. The seven indicators are defined as follows:
    a. E.1.2.4 Oil Spill Disclosure & Performance: This indicator provides an assessment of the company's oil spill reporting and performance.

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

b. E.1.2.6.2 Mineral Waste Management: This indicator assesses the strength of the company's initiatives to manage the risk associated with mineral waste, i.e. tailings, waste rock and overburden. The indicator focuses particularly on tailings because they can pose significant hazards to the environment and local communities due to their large volume and physical and chemical characteristics.
c. E.1.3.2 Hazardous Waste Management: This indicator assesses the strength of the company's initiatives to reduce hazardous waste from its own operations.
d. E.2.1.7 Recycled Material Use: This indicator provides an assessment of the company's data on its use of recycled and/or re-used raw material and on its performance in this matter.
e. E.3.1.1 Sustainable Products & Services: This indicator analyzes whether the company offers sustainability related products or services.
f. E.3.1.6 Eco-Design: This indicator provides an assessment of whether there are policies and programmes to systematically consider environmental aspects at the R&D or design stage of products.
g. E.3.1.7 Product Stewardship Programmes: This indicator provides an assessment of whether the company has end-of-life product management programmes and targets, and whether initiatives are taken to take-back or recycle these products.

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Global Standards and Controversial Weapons**:
  - Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
    Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
  - Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

    » Internal production or sale of controversial weapons
    » The ultimate holding company owns >10% of voting rights of an involved company
    » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[60]:

[60] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

Weapons:

i) Small Arms:

STOXX will exclude companies that Sustainalytics identifies to have:

»>10% revenues from manufacturing and selling assault weapons to civilian customers

»>10% revenues from manufacturing and selling small arms to military / law enforcement customers

»>10% revenues from manufacturing and selling key components of small arms

»>10% revenues from retail and/or distribution of assault weapons

»>10% revenues from retail and/or distribution of small arms (non-assault weapons)

assault weapons)

»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons

»>10% revenues from tailor made products and/or services that support military weapons

»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:

»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments

»>25% revenues from the distribution of adult entertainment materials

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:

»>25% revenues from owning and/or operating a gambling establishment

»>25% revenues from manufacturing specialized equipment used exclusively for gambling

»>25% revenues from providing supporting products/services to gambling operations

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to have:

»>0% revenues from manufacturing tobacco products

»>0% revenues from supplying tobacco-related products/services

»>0% revenues from the distribution and/or retail sale of tobacco products.

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not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Conventional Oil & Gas:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas
i) Arctic Oil and Gas Exploration:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
ii) Oil Sands:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
iii) Shale Energy:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Nuclear Power:
STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:
Utilities that own/operate nuclear power generators
Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>25% revenues from nuclear power supporting products / services, including:
Design and construction of nuclear power plants
Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate
»>25% revenues from nuclear power distribution, including:
The resale or distribution of electricity generated from nuclear power;
This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

- **ICB exclusions** (supplementing Product Involvement): Effective up until September 2020 review, not belonging to the Aerospace or Defence ICB subsectors (2713, 2717 ICB codes). Effective with September 2020 review, not belonging to the Aerospace or Defence ICB subsectors (50201010, 50201020 ICB codes).

- **Environmental Key Performance Indicators**: Having a score on the seven environmental KPIs, that exceeds the thresholds displayed in the table below.

Indicator Number	Indicator Name	Threshold
E.1.2.4	Oil Spill Disclosure & Performance	25[61]
E.1.2.6.2	Mineral Waste Management	25[62]
E.1.3.2	Hazardous Waste Management	25[63]
E.2.1.7	Recycled Material Use	0[64]
E.3.1.6	Eco-Design	0[65]
E.3.1.1	Sustainable Products & Services	0[66]
E.3.1.7	Product Stewardship Programmes	0[67]

[61] This translates to a company reporting a reduced or at the very minimum a stable (+/- 2.5%) total volume of oil spills
[62] This translates to a company having at least an adequate programme with regards to initiatives the company takes to manage risk associated with mineral waste
[63] This translates to a company having at least an adequate programme with regards to initiatives the company takes to reduce hazardous waste from its own operations
[64] A strictly positive threshold set for this KPI results in excluding of companies that do not make use of any recycled or re-used material for their products
[65] A strictly positive threshold set for this KPI results in excluding of companies for which there is no evidence of environmental impact being considered at the design stage of new products
[66] A strictly positive threshold set for this KPI results in excluding of companies for which there is no evidence of them offering any sustainability-related products or services
[67] A strictly positive threshold set for this KPI results in excluding of companies that have no programme for end-of-life product management or do not disclose whether they do or not

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

Assessment of these KPIs does not apply for all peer groups: companies for which scores on specific or all of the KPIs above are not available, are considered eligible for selection at this stage, as assessment of the above indicators may not relate to their business model.

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 7 million EUR
- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe, only the most liquid share line is retained

Effective up until September 2020 review, all securities that remain after the application of the exclusion filters above, constitute the Selection list. Each security is allocated to one of eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500 and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, all securities that remain after the application of the exclusion filters above, constitute the Selection list. Each security is allocated to one of eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

Composition list: The following Equal Strength Ratio is calculated:

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

$$\mathrm{ESR} = \sqrt{\frac{30}{\mathrm{N}}}$$

where,
N =number of stocks in the selection list

All stocks from the selection list are sorted within their respective industry groups in descending order in terms of dividend yield, and companies are selected for the next step of the selection process based on the ESR:

$$\text{number of companies to select in industry A (Dividend screen)} = \text{round to nearest integer } (\mathrm{ESR} * \mathrm{N_A})$$

where,
A = one of the 11 industrial groupings
$\mathrm{N_A}$ = number of stocks in the selection list from industry A

In case of identical dividend yields between 2 companies in the same industry, priority is assigned to the stock with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

Subsequently, the remaining companies, are sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR), and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the lowest volatility are selected in the index, in such a way that the following conditions are met:

a. Industry

Maximum of 5 components out of the total 30 coming from each of 11 industrial groupings, as defined above

b. Country

For each country i, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$\mathrm{K_i} = (\mathrm{SXW1_i} + 10\%) * \mathrm{N}$$

where:

K_i = maximum number of components from country i, allowed for inclusion in the iSTOXX Global Responsible Waste Management Select 30 Index
$\mathrm{SXW1_i}$ = weight of the components coming from country i, in the STOXX Global 1800 Index, as of the cutoff date
N = number of constituents in the iSTOXX Global Responsible Waste Management Select 30 Index

63. iSTOXX GLOBAL RESPONSIBLE WASTE MANAGEMENT SELECT 30

If the composition list cannot be completed with 30 stocks under the above constraints, then the industry constraint is relaxed by allowing an additional company per industry. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i = target weight of component *i*
σ_i = maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N = number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

63.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the corresponding universe (STOXX Global 1800 Index), which remain in the STOXX Developed Markets Total Market Index are not deleted from the index.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

64. EURO iSTOXX 50 CARBON ADAPTATION INDEX

64.1. EURO iSTOXX 50 CARBON ADAPTATION INDEX

64.1.1. OVERVIEW

The EURO iSTOXX 50 Carbon Adaptation Index tracks the composition of the EURO STOXX 50® Index, and re-weights the securities according to their carbon emissions. Companies that have low emission intensities are assigned higher weights than those with high emission intensities. The EURO iSTOXX 50 Carbon Adaptation Index aims to reduce the overall carbon footprint of the index while tracking the same securities as the liquid EURO STOXX 50® benchmark index.

Universe: The index universe is defined by the EURO STOXX 50® Index

Weighing scheme: The index is price-weighted with weighting factors determined according to constituents' Carbon Intensity rank

Base values and dates: 100 on December 19, 2011

For a complete list please consult the data vendor code sheet on the website[68]. Customized solutions can be provided upon request.

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

64.1.2. INDEX REVIEW

Composition list: The review cutoff date of the index is the last dissemination day of the month preceding the review date. The components of the EURO STOXX 50® Index, effective on the following review date, constitute the EURO iSTOXX 50 Carbon Adaptation Index's composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review effective date is the dissemination day following the third Friday of each review month.

Weighting and cap factors: at each cutoff date, the components of the index are screened according to their Carbon Intensity as defined:
Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million)

The data consists of both Reported (from CDP: companies voluntarily annually report, amongst others, Scope 1 & 2 GHG emissions) and Estimated data (from ISS-Ethix Climate Solutions, who uses, amongst others, CDP data to estimate GHG emissions with a model developed in cooperation with the Zurich ETH university, for companies that do not report to CDP). Scope 1 refers to direct greenhouse gas emissions coming from sources owned or controlled by the

[68] http://www.STOXX.com/download/indices/vendor_codes.xls

company, whereas Scope 2 accounts for indirect greenhouse gas emissions from consumption of purchased electricity, heat or steam.

The index components are ranked in ascending order of their Carbon Intensity. Companies with no Carbon Intensity data are ranked at the bottom of the list, i.e. they are treated as if their Carbon Intensity indication is equal to the maximum Carbon Intensity figure among the rest of the companies in the universe. In case two companies for a given cutoff date have the same Carbon Intensity, priory is given to the one with the highest free float market capitalization.

Securities that rank in the top 50% of the list, i.e. 25 securities that have the lowest Carbon Intensity are each assigned a weight of 3%. The remaining 25 securities with the highest Carbon Intensity figures, or no intensity data, are each assigned a weight of 1%.

Weighting factor = weight * (100,000,000,000 / closing price of the stock in EUR), rounded to Integers

The weighting factors are calculated based on the closing prices of the Thursday prior to the second Friday of the review month.

Derived indices: the EURO iSTOXX 50 Carbon Adaptation EUR Gross Return Index serves as the underlying for the EURO iSTOXX 50 Carbon Adaptation GR Decrement 5% Index.

64.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

65. iSTOXX EUROPE COLLATERAL INDICES

65.1. iSTOXX EUROPE COLLATERAL INDICES

65.1.1. OVERVIEW

The iSTOXX Europe Collateral Indices represent a diversified basket of securities which meet broadly accepted criteria for general collaterals. The index components are derived from the STOXX Europe 600 index and satisfy criteria on liquidity and borrow costs. In addition, only components which have no pending corporate event or dividend distribution are eligible for the index. The index is weighted by free-float market capitalization, with a cap at component level.

The indices consist of: iSTOXX Europe Collateral, iSTOXX Europe EUR Group 1 Collateral Large, iSTOXX Europe EUR Group 1 Collateral Mid, iSTOXX Europe EUR Group 2 Collateral Large, iSTOXX Europe EUR Group 2 Collateral Mid, iSTOXX Europe EUR Group 3 Collateral Large, iSTOXX Europe EUR Group 3 Collateral Mid, iSTOXX Europe EUR Group 4 Collateral Large, iSTOXX Europe EUR Group 4 Collateral Mid.

Universe: The universe is defined as the composition of the STOXX Europe 600 Index effective on the Monday following the 3rd Friday of each month.

Weighting scheme: The indices are weighted according to free-float market capitalization subject to a cap.

Base values and dates: 100 on Feb 17, 2012

Index types and currencies: Price, Net and Gross Return in EUR, USD

Dissemination calendar: STOXX Europe calendar

65.1.2. INDEX REVIEW

Selection list:
The median free-float market capitalization of all the securities in the universe is calculated and used to separate the securities into the respective large cap (>= median) and mid cap (< median) groups.

All securities in the universe are ranked in terms of their 3-months average daily trading volume (ADTV) and the median of the distribution is identified: securities having a 3-months ADTV larger than 10% of that of the median security remain part of the index.

Remaining securities have to satisfy the following borrowing conditions in order to remain in the index:

- Securities must have a 1-month (i.e. 20 trading days) value-weighted average borrow fee of less than 100 basis points and below or equal to twice the simple average borrow fee, calculated as the value-weighted average borrow fee for one day, of the preceding 20 trading days;
- Securities must have a borrowing capacity of at least 50%. The borrowing capacity of a security is calculated based on its Lendable Quantity and Quantity on Loan figures as

65. iSTOXX EUROPE COLLATERAL INDICES

follows:

$$BC_i = 1 - \frac{QL_i}{LQ_i}$$

where:

- BC_i is the Borrowing Capacity of security *i*
- QL_i is the Quantity on Loan of security *i*, defined as the number of securities on loan/borrowed,
- LQ_i is the Lendable Quantity of security *i*, defined as the quantity of securities in lending programmes.

Data source: The data is provided to STOXX by data explorers, the aggregator of stock lending information.

From the remaining securities, the ones which are traded in an exchange in each of the following tables will be the respective indices.

1. iSTOXX Europe Collateral Index:
   a. All companies that are traded in the following exchanges in the countries below excluding those with ISIN Country Code of FR (France), IT (Italy) and CH (Switzerland)

Exchange Code	Exchange (Country)
AS	Amsterdam (NL)
BR	Brussels (BE)
CO	Copenhagen (DK)
DE	Frankfurt (DE)
HE	Helsinki (FI)
LS	Lisbon (PT)
MC	Madrid (ES)
MI	Milan (IT)
OL	Oslo (NO)
PA	Paris (FR)
ST	Stockholm (SE)
VI	Vienna (AT)
WA	Warsaw (PL)

2. iSTOXX Europe EUR Group 1 Collateral Large index (>= Median free-float market cap) and iSTOXX Europe EUR Group 1 Collateral Basket Mid index (< Median free-float market cap):
   a. All companies with ISIN Country Code of AT (Austria), BE (Belgium), DE (Germany), FI (Finland), LU (Luxembourg), and NL (Netherlands) that are traded in a EUR-denominated exchange, and

65. iSTOXX EUROPE COLLATERAL INDICES

b. All companies with ISIN Country Code of IE (Ireland), GG (Guernsey), IM (Isle of Man), JE (Jersey) and GB (United Kingdom) and traded in the following EUR-denominated exchanges:

Exchange Code	Exchange (Country)
AS	Amsterdam (NL)
BR	Brussels (BE)
DE	Frankfurt (DE)
HE	Helsinki (FI)
PA	Paris (FR)
VI	Vienna (AT)

3. iSTOXX Europe EUR Group 2 Collateral Large index (>= Median free-float market cap) and iSTOXX Europe EUR Group 2 Collateral Basket Mid index (< Median free-float market cap):
   a. All companies with ISIN Country Code of FR (France) that are traded in a EUR-denominated exchange.

4. EURO iSTOXX Europe EUR Group 3 Collateral Large index (>= Median free-float market cap) and iSTOXX Europe EUR Group 3 Collateral Basket Mid index (< Median free-float market cap):
   a. All companies with ISIN Country Code of PT (Portugal) and ES (Spain) that are traded in a EUR-denominated exchange.

5. iSTOXX Europe EUR Group 4 Collateral Large index (>= Median free-float market cap) and iSTOXX Europe EUR Group 4 Collateral Basket Mid index (< Median free-float market cap):
   a. All companies with ISIN Country Code of IT (Italy) that are traded in a EUR-denominated exchange, and
   b. All companies with ISIN Country Code of IE (Ireland) and traded in the following EUR-denominated exchanges:

Exchange Code	Exchange (Country)
I	Dublin (IE)

All remaining securities that have either a corporate event or an ex-dividend date (as per the excluded corporate actions list below) falling between the review implementation date (excluded) and next review implementation date (included) are deemed ineligible.

Corporate actions (as defined in the STOXX Calculation Guide Section 8) that are excluded:
- Cash dividend
- Special cash dividend
- Rights offering
- Stock dividend
- Stock dividend from treasury stock

65. iSTOXX EUROPE COLLATERAL INDICES

- Stock dividend of another company
- Return of capital and share consolidation
- Repurchase of shares/self-tender
- Spin-off
- Combination stock distribution (dividend or split) and rights offering
- Addition / deletion of a company
- Mergers and takeovers
- Illiquidity, bankruptcy and delisting
- Extreme company events

In the case that if the number of remaining securities after screening for pending corporate events fall to below 3, the most liquid of the companies with a pending corporate action shall be added into the index until the number of components in the index is 3.

Composition list: All securities in the selection list will be part of the index.

Review frequency: The reviews are conducted on a monthly basis on the 3rd Friday of the month, effective on the following Monday. The review cut-off date for the underlying data is the last trading day of the previous month.

Weighting cap factors: Components are capped at a maximum weight of (5%, 1 / number of components on review date). Cap factors are calculated using the closing prices of the Tuesday after the second Friday of the month.

65.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. Deletions from the corresponding universe, which remain in the STOXX Total Market index are not deleted from the index.

Fast exit: Components pending a corporate action as published in the STOXX Corporate Actions forecast file (usually available around noon to 3pm Frankfurt time) will be removed from the index effective 5 dissemination days before the ex-date, or immediately with 2 dissemination days' notice if less than 5 dissemination days remain before the ex-date. For fast exits where the effective date falls within the next two dissemination days the notice period will be shorten and the constituent will only be removed if the implementation date is not a holiday on the country exchange on which the constituent is traded. For avoidance of doubt, new additions to the index in the next review period will not be subject to the fast exit rule between the review announcement date and the review implementation date. In addition, if the number of components in the index is 3 or less, there will no longer be any further constituent removed due to the fast exit rule.

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently to the index

Mergers and takeovers: Not applicable

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

66. iSTOXX EQUITY DIVIDEND INDICES

66.1. iSTOXX EQUITY DIVIDEND INDICES

66.1.1. OVERVIEW

The Equity Dividend Indices are designed to track the total net dividend per share amount paid by single equities over the period of time spanning from base date till the current day.

All cash and scrip (with cash alternative) dividend types are taken into account, i.e. regular and special dividends, as reported by the company – and the index value is adjusted for corporate actions over time. If a dividend has gone ex- and is included in the Equity Dividend Indices but subsequently amended or not paid post the ex-date dissemination day, there will not be an adjustment to the Equity Dividend Indices.

Universe: The broad universe for the indices is defined by EUR-denominated stocks in the STOXX Europe 600. A subset of which are in the EDI where for a complete list, please consult the data vendor code sheet on the website.

Index types and currencies: Price (EUR)

Base values and dates: 0 on Dec 21, 2018

Dissemination Calendar: STOXX Europe Calendar

66.1.2. CALCULATIONS

$$I_t = \begin{cases} 0 & t = 0 \\ \left(I_{t-1} + \sum_{i=1}^{n} \left(Div_{i,t}^{announced} \cdot FX_{i,t} \cdot K_{i,t} \cdot \left(1 - WHT_{i,t}\right) \right) \right) \cdot R_t & t > 0 \end{cases}$$

$$ADJ_I_t = I_t \cdot \prod_{t'>t} R_{t'}$$

Where:

- *I* is the unadjusted equity dividend index level
- *ADJ_I* is the adjusted equity dividend index level for corporate actions
- *t* refers to each index dissemination day.
- *n* is the number of securities in the portfolio – can be more than 1 in case of spin-offs.
- $WHT_{i,t}$ is the withholding tax rate applicable for component *i* at time *t*, as defined by STOXX https://www.stoxx.com/withholding-taxes according to STOXX calculation methodology.
- $Div_{i,t}^{announced}$ is the unadjusted gross declared dividend amount (both ordinary and special) in respect of each share of the company for component *i* at time *t+1* being an ex-dividend date or zero if no amount is applicable

66. iSTOXX EQUITY DIVIDEND INDICES

- $FX_{i,t}$ is the WM exchange rate on day *t*, from the currency on which the dividend for component *i* effective on *t+1* is paid to the index currency according to STOXX calculation methodology.
- $K_{i,t}$ is the K-factor for component *i* on day *t*, as defined below in the adjustments section.
- R_t is the R-factor for the mother company on day *t*, as defined below in the adjustments section.

The index value is calculated using full decimals precision and disseminated with 4 dps.

66.1.3. INDEX FORMULA AND INTERMEDIATE CALCULATION STEPS

The K and R-factors provide adjustments for the corporate actions.

The K-factor determines the ratio for spin-offs, applied as basket methodology. Following points have to be considered:

- in case of a spin-off, a product may have two or more underlyings
- if both the mother company and the daughter company have a dividend payment with the same ex-date, the dividend of the daughter company will be multiplied with the K-factor and added to the dividend of the mother company
- K-factor represents the spin-off ratio and will be allocated to the daughter companies

In case of spin-offs where the spun-off child company is listed on an eligible European exchange per the STOXX Europe Total Market, the child companies are added to the index basket together with the mother company. The K-factor represents the spin-off ratio and it multiplies the dividends of the child components. In case a dividend is paid on the same date by more than one component of the index, then the dividends are calculated as stated above and summed together for the final index value calculation.

The K-factor is calculated on the spin-off effective date and it is constant until the next corporate action event.

$$K_{i,spin-off} = \begin{cases} 1 & \text{if } i \text{ is the mother company} \\ split\ ratio & \text{if } i \text{ is a child component} \end{cases}$$

For corporate actions involving the child company after the spin-off effective date, the K_i will be adjusted by the R-factor of the child company.

$$K_{i,t} = \frac{K_{i,t-1}}{R_{i,t}}$$

Otherwise, the spin-off corporate action is handled as an R-factor adjustment as a stock dividend of another company.

In the case where the child company is delisted or taken over, it will be removed from the index basket.

66. iSTOXX EQUITY DIVIDEND INDICES

The R-factor provides for corporate actions linked to capital adjustments and distributions and will be rounded to 8 decimal points. In general, the R-factor calculation is defined as:

$$R_{i,t} = \frac{S_{adj,i,t}}{S_{old,i,t}}$$

Therefore, the R-factor formula for capital adjustments is:

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} \cdot \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} + \frac{E_{i,t}}{S_{old,i,t}}$$

In addition, the R-factor formula for distributions is:

$$R_{i,t} = \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}}$$

Where:

- $N_{old,i,t}$ refers to the number of shares prior to the corporate action for component *i* effective on day *t+1*
- $N_{new,i,t}$ refers to the number of shares after the corporate action for component *i* effective on day *t+1*
- $S_{old,i,t}$ refers to the official closing price for component *i* on day *t*, or in the case where the corporate action effective date is identical to the ex-date of a cash dividend, $Div_{i,t}^{announced}$, then it is the official closing price minus the cash dividend amount, $Div_{i,t}^{announced}$.
- $S_{adj,i,t}$ refers to the adjusted opening price for component *i* on day *t+1* after adjusting $S_{old,i,t}$ for the corporate action effective on day *t+1*
- $E_{i,t}$ refers to the value of the entitlement for component *i* effective on day *t+1*

The R-factors adjustments for the following corporate actions are described as follows and calculated according to STOXX calculation methodology. In the formulas below, B refers to the number of shares obtained (returned) for A shares held.

1. Stock dividends / Bonus issue; B (additional) for every A

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} = \frac{A}{A+B}$$

2. Stock dividend (from Treasury stock); B (additional) for every A

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} = \frac{A}{A+B}$$

3. Split and reverse split; B (additional) for every A; i.e. for reverse split B negative

66. iSTOXX EQUITY DIVIDEND INDICES

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} = \frac{A}{A+B}$$

4. Merger; B (additional) shares in new company for every A old share (similar to No. 3 for surviving company).

   If the company is being taken over, the index will stop calculating as the company will be deleted from the STOXX Total Market index and will continue being disseminated with its last calculated value.

5. Stock dividend of another company; B shares of other company for A

$$R_{i,t} = \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} = \frac{S_{old,i,t} - S_{other,t}\frac{B}{A}}{S_{old,i,t}}$$

   Where:
   $E_{i,t}$ = $S_{other,t}$ x Number of shares per one share of original company *i*, and
   $S_{other,t}$ is the closing price of the other company on day *t*.

6. Return of capital and share consolidation; the return of capital is treated as a special dividend and the share consolidation is treated as a reverse stock split, B (additional) for every A; B often negative

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} = \frac{A}{A+B}$$

   Where:
   $N_{new,i,t}$ = Number of shares after consolidation for every $N_{old,i,t}$ shares held

7. Rights issue (capital increase via cash by issue of new shares with full dividend rights); B (additional) shares for every A

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} \cdot \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} + \frac{E_{i,t}}{S_{old,i,t}} = \frac{A}{A+B} \cdot \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} + \frac{E_{i,t}}{S_{old,i,t}}$$

   Where:
   $N_{new,i,t}$ = $N_{old,i,t}$ + number of new shares for every $N_{old,i,t}$ shares held
   $E_{i,t}$ = subscription price of the new share

   In the case of highly dilutive rights issues and extremely dilutive rights issues without sufficient notice period, the R-factor will be calculated as a complex corporate action.

   In the case of extremely dilutive rights issues with sufficient notice period, the index will stop calculating as the company will be deleted from the STOXX Total Market index and will continue being disseminated with its last calculated value.

66. iSTOXX EQUITY DIVIDEND INDICES

8. Right issues without full dividends rights (capital increase via cash by issue of new shares without full dividend rights); B (additional) shares for every A

$$R_{i,t} = \frac{N_{old,i,t}}{N_{new,i,t}} \cdot \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} + \frac{E_{i,t}}{S_{old,i,t}} = \frac{A}{A+B} \cdot \frac{S_{old,i,t} - E_{i,t}}{S_{old,i,t}} + \frac{E_{i,t}}{S_{old,i,t}}$$

Where:
$N_{new,i,t}$ = $N_{old,i,t}$ + number of new shares for every $N_{old,i,t}$ shares held
$E_{i,t}$ = subscription price of the new share + dividend loss (difference between the dividend of the old share and the dividend of the new share)

In the case of highly dilutive rights issues and extremely dilutive rights issues without sufficient notice period, the R-factor will be calculated as a complex corporate action.

In the case of extremely dilutive rights issues with sufficient notice period, the index will stop calculating as the company will be deleted from the STOXX Total Market index and will continue being disseminated with its last calculated value.

9. Other complex corporate actions and combinations of the above will be calculated using on the adjusted price as calculated based on the STOXX Calculation Guide to reflect the stock's corporate action that will be effective the next trading day.

67. iSTOXX EUROPE TOTAL MARKET FOOD PRODUCERS CAPPED 30-15

67.1. iSTOXX EUROPE TOTAL MARKET FOOD PRODUCERS CAPPED 30-15

67.1.1. OVERVIEW

The objective of the iSTOXX Europe Total Market Food Producers Capped 30-15 index is to provide the broadest possible representation of the Food Producers ICB sector in Europe. The index is capped in order to prevent the two largest constituents from dominating the index.

Universe: The index has the same composition as the STOXX Europe Total Market Food Producers index.

Weighting scheme: The index is weighted according to Free Float Market Capitalization.

Base values and dates: The following base values and dates apply: 1000 on Dec 21, 2012

Index types and currencies: Price, Net Return and Gross Return in CHF.

67.1.2. INDEX REVIEW

The index has the same composition of the STOXX Europe Total Market Food Producers.

Review frequency: The reviews are conducted on a quarterly basis, together with the STOXX Europe Total Market Food Producers index.

Weighting cap factors: Constituents are capped so that the largest component may have a maximum weight of 30% and the second-largest of 15%.
Capping occurs on a quarterly basis, based on the prices of the Thursday prior to the second Friday of the review month.

67.1.3. ONGOING MAINTENANCE

Replacements: performed in line with the STOXX Europe Total Market Food Producers index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: performed in line with the STOXX Europe Total Market Food Producers index.

Mergers and takeovers: performed in line with the STOXX Europe Total Market Food Producers index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

68. EURO iSTOXX OCEAN CARE 40

68.1. EURO iSTOXX OCEAN CARE 40

68.1.1. OVERVIEW

The EURO iSTOXX Ocean Care 40 Index is comprised of 40 large and liquid stocks selected from a pool of companies that are taking initiatives and are implementing strong programmes within their business models towards efficient water management and have strong environmental policies.

Universe: EURO STOXX

Weighting scheme: The indices are price-weighted with a weighting factor based on the free float market capitalization and Ocean Care KPI score of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD

68.1.2. INDEX REVIEW

The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

- Average Daily Traded Volume (ADTV) in EUR
- The scores on 12 Environmental Key Performance Indicators from Sustainalytics' model that relate to environmental policies.
- The 12 indicators relating to Ocean Care (Ocean Care KPI) are defined as follows:
    - E.1.1 Environmental Policy: This indicator provides an assessment of the quality of the company's commitment to protect the environment.
    - E.1.2 Environmental Management System: This indicator provides an assessment of the quality and scope of a company's Environmental Management System.
    - E.1.2.1 Biodiversity Programmes: This indicator provides an assessment of the quality of programmes to protect biodiversity.
    - E.1.2.4 Oil Spill Disclosure & Performance: This indicator provides an assessment of the company's oil spill reporting and performance.
    - E.1.2.7 Water Intensity: This indicator provides an assessment of the company's external cost of water-related impacts.
    - E.1.3.2 Hazardous Waste Management: This indicator assesses the strength of the company's initiatives to reduce hazardous waste from its own operations.
    - E.1.3.4 Water Management Programmes: This indicator provides an assessment of the quality of programmes to reduce fresh water use.
    - E.1.9 Carbon Intensity: This indicator provides an assessment of the carbon intensity of a company relative to its peers. The carbon intensity of a company is calculated by dividing the annual CO2 e.q. emissions of a company by annual revenues (t.CO2eq./USD m. revenues).

- E.1.12 Operations Related Controversies or Incidents: This controversy indicator includes: Emissions, Effluents and Waste, Energy Use and GHG Emissions, Land Use and Biodiversity and Water Use.
- E.2.1.1 Supplier Environmental Programmes: This indicator provides an assessment of whether the company has any programmes to improve the environmental performance of its suppliers.
- E.2.2 Contractors & Supply Chain Related Controversies or Incidents: This controversy indicator includes: Emissions, Effluents and Waste – Supply Chain, Energy Use and GHG Emissions – Supply Chain, Land Use and Biodiversity – Supply Chain and Water Use – Supply Chain.
- E.3.2 Products and Services Related Controversies: This controversy indicator includes: Environmental Impact of Products and Carbon Impact of Products.

- Companies that don't have any KPI's data are no eligible for the selection list.

The Selection list constitutes of all stocks of the parent index that fulfil the conditions below:

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR
- Each Ocean Care KPI with a score greater than 0
- Risk level less than 2 in Controversy Level: Operations Incidents - Emissions, Effluents and Waste.

For each company of the selection list the adjusted_ffmcap is calculated,

$$adjusted_ffmcap_i = avg(Ocean\ Care\ KPI)_i * ffmcap_i$$

where
$Avg(Oean\ Care\ KPI)_i$ = the company average score of the twelve Ocean Care KPI
$ffmcap_i$ = free-float market capitalization of the company at cut-off date

The companies are then ranked in descending order in terms of their adjusted_ffmcap.

Composition list:
The largest 2 companies in terms of adjusated_ffmcap for each ICB supersector are selected. To reach 40 companies, the remaining companies are selected from the largest companies, giving priority to companies from the current composition if they are ranked above 48, and not selecting more than 1 additional company from each ICB supersector.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors:

Target weight calculations: The target weight is defined according to the product of the ESG Score and the free-float market capitalization:

$$w_i = \frac{adjusted_ffmcap_i}{\sum_{j\ in\ comp\ list}^{m} adjusted_ffmcap_j}$$

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 8%.

68.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced
Fast exit: Not applicable
Fast entry: Not applicable
Spin-offs: Spin-off companies are not added permanently

69.iSTOXX USA Ocean Care 40

69.1. iSTOXX USA OCEAN CARE 40

69.1.1. OVERVIEW

The iSTOXX USA Ocean Care 40 Index is comprised of 40 large and liquid stocks selected from a pool of companies that are taking initiatives and are implementing strong programmes within their business models towards efficient water management and have strong environmental policies.

Universe: STOXX Global 1800

Weighting scheme: The indices are price-weighted with a weighting factor based on the free float market capitalization and Ocean Care KPI score of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD

69.1.2. INDEX REVIEW

The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

- Average Daily Traded Volume (ADTV) in EUR
- The scores on 12 Environmental Key Performance Indicators from Sustainalytics' model that relate to environmental policies.
- The 12 indicators relating to Ocean Care (Ocean Care KPI) are defined as follows:
    - E.1.1 Environmental Policy: This indicator provides an assessment of the quality of the company's commitment to protect the environment.
    - E.1.2 Environmental Management System: This indicator provides an assessment of the quality and scope of a company's Environmental Management System.
    - E.1.2.1 Biodiversity Programmes: This indicator provides an assessment of the quality of programmes to protect biodiversity.
    - E.1.2.4 Oil Spill Disclosure & Performance: This indicator provides an assessment of the company's oil spill reporting and performance.
    - E.1.2.7 Water Intensity: This indicator provides an assessment of the company's external cost of water-related impacts.
    - E.1.3.2 Hazardous Waste Management: This indicator assesses the strength of the company's initiatives to reduce hazardous waste from its own operations.
    - E.1.3.4 Water Management Programmes: This indicator provides an assessment of the quality of programmes to reduce fresh water use.
    - E.1.9 Carbon Intensity: This indicator provides an assessment of the carbon intensity of a company relative to its peers. The carbon intensity of a company is calculated by dividing the annual CO2 e.q. emissions of a company by annual revenues (t.CO2eq./USD m. revenues).

- E.1.12 Operations Incidents: This controversy indicator includes: Emissions, Effluents and Waste, Energy Use and GHG Emissions, Land Use and Biodiversity and Water Use.
- E.2.1.1 Supplier Environmental Programmes: This indicator provides an assessment of whether the company has any programmes to improve the environmental performance of its suppliers.
- E.2.2 Contractors & Supply Chain Related Controversies or Incidents: This controversy indicator includes: Emissions, Effluents and Waste – Supply Chain, Energy Use and GHG Emissions – Supply Chain, Land Use and Biodiversity – Supply Chain and Water Use – Supply Chain.
- E.3.2 Products and Services Related Controversies: This controversy indicator includes: Environmental Impact of Products and Carbon Impact of Products.

- Product Involvement information in the categories: Tobacco Production, Thermal Coal Extraction, Thermal Coal Power Generation, Military Contracting Weapons, Military Contracting Weapon related products or services.

Companies that don't have any Ocean Care KPI's data or don't have Product Involvement information are no eligible for the selection list.

The Selection list constitutes of all the US securities of the parent index that fulfil the conditions below:

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR

- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company
- Each Ocean Care KPI with a score greater than 0
- Risk level less than 2 in Controversy Level: Operations Incidents - Emissions, Effluents and Waste.

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:

- >0% revenues from manufacturing tobacco products

69.iSTOXX USA Ocean Care 40

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:

- >5% revenues from thermal coal extraction (including thermal coal mining and exploration)
- >5% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Military Contracting:
STOXX will exclude companies that Sustainalytics identifies to have:

- >10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
- >10% revenues from tailor made products and/or services that support military weapons

For each company of the selection list the adjusted_ffmcap is calculated,

$$adjusted_ffmcap_i = avg(Ocean\ Care\ KPI)_i * ffmcap_i$$

where
$Avg(Oean\ Care\ KPI)_i$ = the company average score of the twelve Ocean Care KPI
$ffmcap_i$ = free-float market capitalization of the company at cut-off date

The companies are then ranked in descending order in terms of their adjusted_ffmcap.

Composition list:
The largest 40 companies in terms of adjusated_ffmcap are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors:
Target weight calculations: The target weight is defined according to the product of the ESG Score and the free-float market capitalization:

$$w_i = \frac{adjusted_ffmcap_i}{\sum_{j\ in\ comp\ list}^{40} adjusted_ffmcap_j}$$

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

69.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced
Fast exit: Not applicable
Fast entry: Not applicable
Spin-offs: Spin-off companies are not added permanently

70. iSTOXX FUND INDICES

70.1. iSTOXX TOP CITYWIRE FUND MANAGERS NF INDEX

70.1.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers NF Index replicates the performance of a portfolio that invests in mutual funds that have shown better historical risk-adjusted performance compared to their peers and are rated high by Citywire. For each of the following four asset class segments one fund is selected: Global Equity, Global High Yield, Global Fixed Income, Global Mixed Allocation.

Universe: Citywire fund universe.

Weighting scheme: The index is weighted according to a Momentum factor.

Base values and dates: 1000 on Feb. 24, 2009

Index types and currencies: Price in EUR.

Dissemination calendar: The index is calculated on any day

(i) on which all the following stock exchange are open for trading: Dublin, Paris, New York (NYSE), Frankfurt (Xetra), London, and Luxembourg; and

(ii) which is a Funding Calculation Day (Target); and

(iii) which is not one of the following: St. Patrick's Day (March 17), Autumn Holiday (1st Monday of August), Halloween (last Monday of October), Summer Holiday (1st Monday of June), Armistice Day (May 8 and November 11), Bastille Day (July 14), Ascension Day (usually Thursday 39 days after Easter Sunday), Assumption Day (August 15), All Saints Day (November 1), National Holiday (June 23), Corpus Christi (usually Thursday 60 days after Easter Sunday), National Day (October 3), Christmas Holiday (Dublin, defined as 3rd business days after Dec. 24)

The index value is published with two dissemination days delay at 6 p.m. CET.

Index Rebalancing Day: The 16th Index Dissemination Day of February, May, August and November (new composition is effective on the 17th Dissemination Day)

Index Rating Cut-off Day: The fifth Dissemination Day of February, May, August and November (most recent data available)

Index AUM Observation Day: The last Dissemination Day of December, March, June and September

70.1.2. INDEX REVIEW

Selection list: Among funds within the universe, funds are selected satisfying all below criteria as provided by Citywire; if not stated otherwise the data is as of 10 dissemination days before the rebalancing day:

- Citywire Fund Manager Ratings of at least AA on the latest Index Rating Observation Day as determined by Citywire
- Total fund assets above EUR 425 million on the latest Index AUM Observation Day (if the fund total assets are not available at this date, the latest fund total assets available before that Index AUM Observation Day over a one-month period is considered)
- Management fees available and greater than or equal to 0.30%[69]
- Inception date dated at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Daily NAV publication frequency for at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Active market status
- Share type is equal to ”All subscribers”
- Currency equal to EUR
- UCITS compliant
- Do not have distributions
- Daily pricing
- ISIN available
- Not a High Yield Emerging Markets fund
- Domiciled in Luxembourg, France, Belgium, Ireland or Germany
- Daily redemption and subscription (i.e. daily liquid)
- No more than 2 days redemption and subscription notice
- approved by the AMF70
- Minimum initial investment amount less than 10 MIn EUR

If after this selection procedure multiple share classes of the same mutual fund are left, only the share class with the lowest management fees is selected; in case of equal management fees the share class with the oldest inception date will be considered; in case of identical inception date the share class with the ISIN being first in alphabetical order will be considered.

[69] This filter avoids including low-fee share classes that are only available in retirement accounts.
[70] https://www.amf-france.org/

70.iSTOXX FUND INDICES

Composition list: With respect to any Index Rebalancing Day, starting from the index universe, one mutual fund will be selected per Asset Class. Asset Classes are defined using Citywire sectors as follows:

Asset Class	Citywire sectors
Global Equity	Equity – Global
High Yield	Bonds Global - Global High Yield
Global Fixed Income	Bonds – Global Bonds – Global Corporates
Mixed Allocation	Mixed Assets Global - Absolute Return EUR Mixed Assets Global - Aggressive EUR Mixed Assets Global - Balanced EUR Mixed Assets Global - Conservative EUR Mixed Assets Global - Flexible EUR

With respect to any Index Rebalancing Day t_{Reb}, the Sharpe Ratio is calculated for each mutual fund among the selection list as follows:

$$\text{SharpeRatio} = \frac{\ln\left(\frac{NAV_{t_{Reb}-Lag}}{NAV_{t_{Reb-4}-Lag}}\right)}{\sqrt{252 \cdot \frac{\sum_{i=t_{Reb-4}-Lag+1}^{t_{Reb}-Lag}\left(\ln\left(\frac{NAV_i}{NAV_{i-1}}\right) - \frac{\ln\left(\frac{NAV_{t_{Reb}-Lag}}{NAV_{t_{Reb-4}-Lag}}\right)}{t_{Reb}-t_{Reb-4}}\right)^2}{t_{Reb}-t_{Reb-4}-1}}}$$

where:

NAV_t	= Net asset value on Dissemination Day *t*
Lag	= 10 Index Dissemination Days

With respect to each Asset Class and Index Rebalancing Day, the mutual fund with the highest Sharpe Ratio is selected to be the Index Component of that Asset Class.

With respect to any Index Rebalancing Day, if it happens that, following the update of the universe, no mutual fund fulfils all the criteria above for a specific Asset Class, the current Index Component will remain in the index.

Review frequency: The reviews are conducted on a quarterly basis in February, May, August and November.

Weighting cap factors: With respect to any Index Rebalancing Day t_{Reb}, a Momentum Factor is calculated for each Fund as follows:

$$MF_i = \frac{NAV_{i,t_{Reb}-Lag}}{NAV_{i,t_{Reb-1}-Lag+1}}$$

where:

Lag	= 10 Index Dissemination Days

Each fund is then ranked according to its respective Momentum Factor in descending order (the Fund with the highest Momentum Factor being ranked 1 and the one with the lowest Momentum Factor being ranked 4) with Sharpe Ratio as the tie breaker (descending).

Based on the ranking as determined in the previous step, with respect to the Index Rebalancing Day $\mathrm{t_{Reb}}$, a target weight $w_{\mathrm{i,t_{Reb}}}$ is then assigned to each Index Component as per the following table:

Fund Ranking	$w_{\mathrm{i,t_{Reb}}}$
1	50%
2	35%
3	10%
4	5%

Index formula:

$$IV_t = \sum_{i=1}^{4} wf_{i,t} \cdot NAV_{i,t}$$

$$IV_0 = 1000$$

whereby the weighting factor is calculated as $wf_{i,t} = \frac{w_{i,t_{Reb}}}{NAV_{i,t_{Reb}}} \cdot IV_{t_{Reb}}$ and $\mathrm{t_{Reb}}$ refers to the Index Rebalancing Day immediately preceding Dissemination Day t.

70.1.3. ONGOING MAINTENANCE

Index replicability: If STOXX becomes aware through public information or market feedback that the inclusion of a fund severely affects the replicability of the index, STOXX will, after confirming the issue, replace the fund by the next highest ranked fund for the corresponding asset class, whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out").
Such scenarios include but are not limited to fund managers that are not open to have the fund included in a structured product, funds with limits in term of subscription and redemption amounts, or funds that are charging entry and/or exit fees.
If a current component is affected, any change is announced two dissemination days in advance.
If a newly to be added fund is affected STOXX will update the ranking list immediately.

Fund disruption events: If STOXX becomes aware that one of the funds in the index is subject to an Index Disruption Event as listed below the affected fund will be replaced by the next highest ranked fund for the corresponding asset class whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out"). Any change is announced two dissemination days in advance on stoxx.com.

The fund market status as well as the fund assets are monitored on a daily basis.

Furthermore, STOXX will verify on a daily basis whether the return of any component exceeds 2 standard deviations of its 1-year rolling average. Such breach will trigger further investigation into a potential Fund Disruption Events.

In the determination of STOXX the occurrence of any of the following events are each a “Fund Disruption Event”:

- a Fund Insolvency Event;
- a Fund Modification;
- a Loss of Fund Assets;
- a Loss of License;
- a Regulatory Action;
- a Reporting Disruption; or

For these purposes:

“**Fund Insolvency Event”** means that the Fund is **dissolved** or has a resolution passed for its dissolution, winding up, official liquidation.

“Fund Modification” means any **material change or modification of the Prospectus** which could reasonably be expected to affect the stated objective of the Fund.

“Loss of Fund Assets” means, that the aggregate net asset value of the relevant fund falls below USD 100 million.

“**Loss of License**” means the loss of an applicable license or regulatory authorisation applying to a Fund or any related Service Provider (unless determined that such event is immaterial).

"**Regulatory Action**" means as applicable, the **cancellation, suspension or revocation of the registration or approval of such Fund**, by any governmental, legal or regulatory entity with authority over such Fund or related reference fund, or any **change in the legal, tax, accounting, or regulatory treatments** that is reasonably likely to have an adverse impact on the value of such Fund on any investor therein.

"**Reporting Disruption**" means the occurrence of any event affecting such Fund that would make it **impossible or impracticable to determine the value or risk profile of such Fund** in respect of an Index Dissemination Day, including a failure, suspension or postponement in the reporting or publishing of the Fund value as regularly scheduled.

Data sufficiency If at time of publication (t+2, 6 p.m.) a fund’s NAV is not available the previous NAV is used for that fund.

70.2. iSTOXX TOP CITYWIRE FUND MANAGERS INDEX

70.2.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers Index replicates the performance of a portfolio that invests in mutual funds that have shown better historical risk-adjusted performance compared to their peers and are rated high by Citywire. For each of the following four asset class segments one fund is selected: Global Equity, Global High Yield, Global Fixed Income, Global Mixed Allocation.
The index incorporates a fee[71].

Underlying index: iSTOXX Top Citywire Fund Managers NF Index

Base values and dates: 1000 on Feb. 24, 2009

Index types and currencies: Price in EUR and USD.

Dissemination calendar: Same as for underlying index

70.2.2. CALCULATION FORMULA

$$IV_t = IV_{t-1} \cdot \left(\frac{UL_t}{UL_{t-1}} - F \cdot \frac{d_{t-1,t}}{365} \right)$$

where:

F	= Fee (0.50%)
$d_{t-1,t}$	= calendar days between day *t-1* (excluding) and *t* (including)

[71] Index replicators that use mutual fund retail share classes are typically reimbursed by way of fee rebates to compensate for differences in fees between retail and institutional share classes. These rebates are in practice not passed on to the end investor but cover replication expenses. By systematically selecting the cheapest share class available the underlying index typically selects the institutional share class which is often not available to retail investors. Hence the otherwise implied and opaque rebate is replaced by a transparent constant deduction that is in line with the historical average fee difference between retail and institutional share classes in the fund selection universe.

70.3. iSTOXX TOP CITYWIRE FUND MANAGERS RISK CONTROL 8% INDEX

70.3.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers Risk Control 8% Index replicates the performance of a risk control overlay applied to the iSTOXX Top Citywire Top Fund Managers NF Index that targets a volatility of 8% by allocating to both the fund index as well as cash.
In addition, a constant dividend markdown is applied to the index expressed in percent of the index performance that is subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the index is underperforming a hypothetical total return index without the decrement deduction.

Underlying index: iSTOXX Top Citywire Fund Managers NF Index

Index currency: EUR

Index base date and value: 1000 as of February 24, 2009

Return version: Total Return with cash earning a risk-free rate and 2.5% Decrement

Target volatility: $\sigma_{TV} = 8\%$

Dissemination calendar: Same as for underlying index

70.3.2. CALCULATION FORMULA

$$IV_t = IV_{t-1} \times \left(1 + w_{t-1} \times \left(\frac{UL_t}{UL_{t-1}} - 1\right) + (1 - w_{t-1}) \cdot IR_{t-1} \cdot \frac{d_{t-1,t}}{360} - D \times \frac{d_{t-1,t}}{365}\right)$$

where:

w_{t-1}	= allocation to underlying index effective on day *t*
UL_t	= index value of underlying index on day *t*
IR_t	= €STR rate on day *t*
D	= Decrement amount (2.5%)
$d_{t-1,t}$	= calendar days between dissemination day *t-1* (excluding) and *t* (including)

Volatility Control Calculation Method
On any Index Dissemination Day t, the returns of the underlying index that are used in the target weight determination are calculated as follows[72]:

$$r_t = \ln\left(\frac{UL_t}{UL_{t-1}}\right)$$

[72] Before inception date of the history of the underlying index its daily returns are defined as $r_t = \frac{\sigma_{TV}}{\sqrt{252}}$ implying a realized volatility of σ_{TV} and hence an initial allocation to the index of 100%

except between a rebalancing day t_{Reb} of the underlying index (including) until *N* days later. During these days in order to calculate realized volatility based fully on the new composition and weighting all returns used to determine the target volatility are calculated as follows:

$$r_t = \ln\left(\frac{\widetilde{UL}_t}{\widetilde{UL}_{t-1}}\right)$$

$$\widetilde{UL}_t = UL_{t_{Reb-1}} \cdot \left(\sum_{i\ in\ I}^{|I|} w_{i,t_{Reb}} \cdot \frac{NAV_{i,t}}{NAV_{i,t_{Reb-1}}}\right)$$

where:

N	= 30 (counted over index Dissemination Days)
t_{Reb-1}	= rebalancing day of underlying index immediately preceding t_{Reb}
I	= set of funds implemented on t_{Reb}
$w_{i,t_{Reb}}$	= weight of fund *i* as implemented on t_{Reb}

Determination of target weight

On any Index Dissemination Day *t* the target weight is determined as follows:

$$Tgtw_t = \frac{\sigma_{TV}}{\sigma_t^N}$$

$$\sigma_t^N = \sqrt{\frac{252}{N} \times \sum_{k=0}^{N-1} r_{t-k-Lag}{}^2}$$

where:

N	= 30 (counted over index Dissemination Days)
Lag	= 3 (counted over index Dissemination Days)

Determination of index allocation

On any Index Dissemination Day *t*, the index weight is determined as follows:

$$w_t^{VC} = \begin{cases} \min(Cap, Tgtw_t) & \text{if } |Tgtw_t - w_{t-1}^{VC}| \geq Tol \\ w_{t-1}^{VC} & \text{otherwise} \end{cases}$$

where:

Cap	= 100%
Tol	= 5%

70.4. iSTOXX TOP CITYWIRE FUND MANAGERS FIXED WEIGHTS NF INDEX

70.4.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers Fixed Weights NF Index replicates the performance of a portfolio that invests in mutual funds that have shown better historical risk-adjusted performance compared to their peers and are rated high by Citywire. For each of the following four asset class segments one fund is selected: Global Equity, Global High Yield, Global Fixed Income, Global Mixed Allocation.

Universe: Citywire fund universe.

Weighting scheme: The index is weighted according to a Momentum factor.

Base values and dates: 1000 on Feb. 24, 2009

Index types and currencies: Price in EUR.

Dissemination calendar: The index is calculated on any day

(iv) on which all the following stock exchange are open for trading: Dublin, Paris, New York (NYSE), Frankfurt (Xetra), London, and Luxembourg; and

(v) which is a Funding Calculation Day (Target); and

(vi) which is not one of the following: St. Patrick's Day (March 17), Autumn Holiday (1st Monday of August), Halloween (last Monday of October), Summer Holiday (1st Monday of June), Armistice Day (May 8 and November 11), Bastille Day (July 14), Ascension Day (usually Thursday 39 days after Easter Sunday), Assumption Day (August 15), All Saints Day (November 1), National Holiday (June 23), Corpus Christi (usually Thursday 60 days after Easter Sunday), National Day (October 3), Christmas Holiday (Dublin, defined as 3rd business days after Dec. 24)

The index value is published with two dissemination days delay at 6 p.m. CET.

Index Rebalancing Day: The 16th Index Dissemination Day of February, May, August and November (new composition is effective on the 17th Dissemination Day)

Index Rating Cut-off Day: The fifth Dissemination Day of February, May, August and November (most recent data available)

Index AUM Observation Day: The last Dissemination Day of December, March, June and September

70.4.2. INDEX REVIEW

Selection list: Among funds within the universe, funds are selected satisfying all below criteria as provided by Citywire; if not stated otherwise the data is as of 10 dissemination days before the rebalancing day:

- Citywire Fund Manager Ratings of at least AA on the latest Index Rating Observation Day as determined by Citywire
- Total fund assets above EUR 425 million on the latest Index AUM Observation Day (if the fund total assets are not available at this date, the latest fund total assets available before that Index AUM Observation Day over a one-month period is considered)
- Management fees available and greater than or equal to 0.30%[73]
- Inception date dated at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Daily NAV publication frequency for at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Active market status
- Share type is equal to ”All subscribers”
- Currency equal to EUR
- UCITS compliant
- Do not have distributions
- Daily pricing
- ISIN available
- Not a High Yield Emerging Markets fund
- Domiciled in Luxembourg, France, Belgium, Ireland or Germany
- Daily redemption and subscription (i.e. daily liquid)
- No more than 2 days redemption and subscription notice
- approved by the AMF74
- Minimum initial investment amount less than 10 MIn EUR

If after this selection procedure multiple share classes of the same mutual fund are left, only the share class with the lowest management fees is selected; in case of equal management fees the share class with the oldest inception date will be considered; in case of identical inception date the share class with the ISIN being first in alphabetical order will be considered.

[73] This filter avoids including low-fee share classes that are only available in retirement accounts.
[74] https://www.amf-france.org/

70.iSTOXX FUND INDICES

Composition list: With respect to any Index Rebalancing Day, starting from the index universe, one mutual fund will be selected per Asset Class. Asset Classes are defined using Citywire sectors as follows:

Asset Class	Citywire sectors
Global Equity	Equity – Global
High Yield	Bonds Global - Global High Yield
Global Fixed Income	Bonds – Global Bonds – Global Corporates
Mixed Allocation	Mixed Assets Global - Absolute Return EUR Mixed Assets Global - Aggressive EUR Mixed Assets Global - Balanced EUR Mixed Assets Global - Conservative EUR Mixed Assets Global - Flexible EUR

With respect to any Index Rebalancing Day t_{Reb}, the Sharpe Ratio is calculated for each mutual fund among the selection list as follows:

$$\text{SharpeRatio} = \frac{\ln\left(\frac{NAV_{t_{Reb}-Lag}}{NAV_{t_{Reb-4}-Lag}}\right)}{\sqrt{252 \cdot \frac{\sum_{i=t_{Reb-4}-Lag+1}^{t_{Reb}-Lag}\left(\ln\left(\frac{NAV_i}{NAV_{i-1}}\right) - \frac{\ln\left(\frac{NAV_{t_{Reb}-Lag}}{NAV_{t_{Reb-4}-Lag}}\right)}{t_{Reb}-t_{Reb-4}}\right)^2}{t_{Reb}-t_{Reb-4}-1}}}$$

where:

NAV_t	= Net asset value on Dissemination Day *t*
Lag	= 10 Index Dissemination Days

With respect to each Asset Class and Index Rebalancing Day, the mutual fund with the highest Sharpe Ratio is selected to be the Index Component of that Asset Class.

With respect to any Index Rebalancing Day, if it happens that, following the update of the universe, no mutual fund fulfils all the criteria above for a specific Asset Class, the current Index Component will remain in the index.

Review frequency: The reviews are conducted on a quarterly basis in February, May, August and November.

Weighting cap factors: With respect to any Index Rebalancing Day t_{Reb}, the target weight $w_{i,t_{Reb}}$ of each fund is determined on the basis of the asset class it is associated with, according to the following table:

Asset Class	$w_{i,t_{Reb}}$
Global Equity	35%
Global Fixed Income	35%
High Yield	15%
Mixed Allocation	15%

whereby the weighting factor is calculated as $wf_{i,t} = \frac{w_{i,t_{Reb}}}{NAV_{i,t_{Reb}}} \cdot IV_{t_{Reb}}$ and t_{Reb} refers to the Index Rebalancing Day immediately preceding Dissemination Day t.

Index formula:

$$IV_t = \sum_{i=1}^{4} wf_{i,t} \cdot NAV_{i,t}$$

$$IV_0 = 1000$$

whereby the weighting factor is calculated as $wf_{i,t} = \frac{w_{i,t_{Reb}}}{NAV_{i,t_{Reb}}} \cdot IV_{t_{Reb}}$ and t_{Reb} refers to the Index Rebalancing Day immediately preceding Dissemination Day t.

70.4.3. ONGOING MAINTENANCE

Index replicability: If STOXX becomes aware through public information or market feedback that the inclusion of a fund severely affects the replicability of the index, STOXX will, after confirming the issue, replace the fund by the next highest ranked fund for the corresponding asset class, whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out").
Such scenarios include but are not limited to fund managers that are not open to have the fund included in a structured product, funds with limits in term of subscription and redemption amounts, or funds that are charging entry and/or exit fees.
If a current component is affected, any change is announced two dissemination days in advance.
If a newly to be added fund is affected STOXX will update the ranking list immediately.

Fund disruption events: If STOXX becomes aware that one of the funds in the index is subject to an Index Disruption Event as listed below the affected fund will be replaced by the next highest ranked fund for the corresponding asset class whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out"). Any change is announced two dissemination days in advance on stoxx.com.

The fund market status as well as the fund assets are monitored on a daily basis.

Furthermore, STOXX will verify on a daily basis whether the return of any component exceeds 2 standard deviations of its 1-year rolling average. Such breach will trigger further investigation into a potential Fund Disruption Events.

70.iSTOXX FUND INDICES

In the determination of STOXX the occurrence of any of the following events are each a “Fund Disruption Event”:

- a Fund Insolvency Event;
- a Fund Modification;
- a Loss of Fund Assets;
- a Loss of License;
- a Regulatory Action;
- a Reporting Disruption; or

For these purposes:

“**Fund Insolvency Event”** means that the Fund is **dissolved** or has a resolution passed for its dissolution, winding up, official liquidation.

“Fund Modification” means any **material change or modification of the Prospectus** which could reasonably be expected to affect the stated objective of the Fund.

“Loss of Fund Assets” means, that the aggregate net asset value of the relevant fund falls below USD 100 million.

“**Loss of License**” means the loss of an applicable license or regulatory authorisation applying to a Fund or any related Service Provider (unless determined that such event is immaterial).

"**Regulatory Action**" means as applicable, the **cancellation, suspension or revocation of the registration or approval of such Fund**, by any governmental, legal or regulatory entity with authority over such Fund or related reference fund, or any **change in the legal, tax, accounting, or regulatory treatments** that is reasonably likely to have an adverse impact on the value of such Fund on any investor therein.

"**Reporting Disruption**" means the occurrence of any event affecting such Fund that would make it **impossible or impracticable to determine the value or risk profile of such Fund** in respect of an Index Dissemination Day, including a failure, suspension or postponement in the reporting or publishing of the Fund value as regularly scheduled.

Data sufficiency If at time of publication (t+2, 6 p.m.) a fund’s NAV is not available the previous NAV is used for that fund.

70.iSTOXX FUND INDICES

70.5. iSTOXX TOP CITYWIRE FUND MANAGERS FIXED WEIGHTS INDEX

70.5.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers Fixed Weights Index replicates the performance of a portfolio that invests in mutual funds that have shown better historical risk-adjusted performance compared to their peers and are rated high by Citywire. For each of the following four asset class segments one fund is selected: Global Equity, Global High Yield, Global Fixed Income, Global Mixed Allocation.
The index incorporates a fee[75].

Underlying index: iSTOXX Top Citywire Fund Managers Fixed Weights NF Index

Base values and dates: 1000 on Feb. 24, 2009

Index types and currencies: Price in EUR.

Dissemination calendar: Same as for underlying index

70.5.2. CALCULATION FORMULA

$$IV_t = IV_{t-1} \cdot \left(\frac{UL_t}{UL_{t-1}} - F \cdot \frac{d_{t-1,t}}{365} \right)$$

where:

F	= Fee (0.50%)
$d_{t-1,t}$	= calendar days between day *t-1* (excluding) and *t* (including)

[75] Index replicators that use mutual fund retail share classes are typically reimbursed by way of fee rebates to compensate for differences in fees between retail and institutional share classes. These rebates are in practice not passed on to the end investor but cover replication expenses. By systematically selecting the cheapest share class available the underlying index typically selects the institutional share class which is often not available to retail investors. Hence the otherwise implied and opaque rebate is replaced by a transparent constant deduction that is in line with the historical average fee difference between retail and institutional share classes in the fund selection universe.

70.6. iSTOXX TOP CITYWIRE FUND MANAGERS FIXED WEIGHTS BE INDEX

70.6.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers Fixed Weights BE Index replicates the performance of a portfolio that invests in mutual funds which have shown better historical performance compared to their peers and are rated high by Citywire. For each of the following four asset class segments one fund is selected: Global Equity, Global High Yield, Global Fixed Income, Global Mixed Allocation. The weights of funds are fixed by asset class of association.

Universe: Citywire fund universe.

Weighting scheme: The index is weighted according to predefined allocation.

Base values and dates: 1000 on Feb. 24, 2009

Index types and currencies: Price in EUR.

Dissemination calendar: The index is calculated on any day

(i) on which all the following stock exchange are open for trading: Dublin, Paris, New York (NYSE), Frankfurt (Xetra), London, and Luxembourg; and

(ii) which is a Funding Calculation Day (Target); and

(iii) which is not one of the following: St. Patrick's Day (March 17), Autumn Holiday (1st Monday of August), Halloween (last Monday of October), Summer Holiday (1st Monday of June), Armistice Day (May 8 and November 11), Bastille Day (July 14), Ascension Day (usually Thursday 39 days after Easter Sunday), Assumption Day (August 15), All Saints Day (November 1), National Holiday (June 23), Corpus Christi (usually Thursday 60 days after Easter Sunday), National Day (October 3), Christmas Holiday (Dublin, defined as 3rd business days after Dec. 24)

The index value is published with two dissemination days delay at 6 p.m. CET.

Index Rebalancing Day: The 16th Index Dissemination Day of February, May, August and November (new composition is effective on the 17th Dissemination Day). If a month has less than 16 Dissemination Days the Index Rebalancing Day is the last Dissemination Day of the month.

Index Rating Observation Day: The first Dissemination Day of January, April, July and October

Index AUM Observation Day: The last Dissemination Day of December, March, June and September

70.6.2. INDEX REVIEW

Selection list: Among funds within the universe, funds are selected satisfying all below criteria as provided by Citywire; if not stated otherwise the data is as of 10 dissemination days before the rebalancing day:

- Citywire Fund Manager Ratings of at least AA on the latest Index Rating Observation Day as determined by Citywire
- Total fund assets above EUR 425 million on the latest Index AUM Observation Day (if the fund total assets are not available at this date, the latest fund total assets available before that Index AUM Observation Day over a one-month period is considered)
- Management fees available and greater than or equal to 0.30%[76]
- Inception date dated at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Daily NAV publication frequency for at least one year and ten Index Dissemination Days before the upcoming Index Rebalancing Day
- Active market status
- Share type is equal to ”All subscribers”
- Currency equal to EUR
- UCITS compliant
- Do not have distributions
- Daily pricing
- ISIN available
- Not a High Yield Emerging Markets fund
- Domiciled in Luxembourg, France, Belgium, Ireland or Germany
- Daily redemption and subscription (i.e. daily liquid)
- No more than 2 days redemption / subscription notice
- approved by the FSMA[77]
- Minimum initial investment amount less than 10 MIn EUR

If after this selection procedure multiple share classes of the same mutual fund are left, only the share class with the lowest management fees is selected; in case of equal management fees the share class with the oldest inception date will be considered; in case of identical inception date the share class with the ISIN being first in alphabetical order will be considered.

[76] This filter avoids including low-fee share classes that are only available in retirement accounts.
[77] https://www.fsma.be/fr/node/7115

70.iSTOXX FUND INDICES

Composition list: With respect to any Index Rebalancing Day, starting from the index universe, one mutual fund will be selected per Asset Class. Asset Classes are defined using Citywire sectors as follows:

Asset Class	Citywire sectors
Global Equity	Equity – Global
High Yield	Bonds Global - Global High Yield
Global Fixed Income	Bonds – Global, Bonds – Global Corporates
Mixed Allocation	Mixed Assets Global - Absolute Return EUR, Mixed Assets Global - Aggressive EUR, Mixed Assets Global - Balanced EUR, Mixed Assets Global - Conservative EUR, Mixed Assets Global - Flexible EUR

With respect to any Index Rebalancing Day t_{Reb}, the return is calculated for each mutual fund among the index universe as follows:

$$\text{Return} = \ln\left(\frac{NAV_{t_{Reb}-Lag}}{NAV_{t_{Reb-2}-Lag}}\right)$$

where:

NAV_t	= Net asset value on Dissemination Day *t*
Lag	= 10 Index Dissemination Days

With respect to each Asset Class and Index Rebalancing Day, the mutual fund with the highest return is selected to be the Index Component of that Asset Class.

With respect to any Index Rebalancing Day, if it happens that, following the update of the universe, no mutual fund fulfils all the criteria above for a specific Asset Class, the current Index Component will remain in the index.

Review frequency: The reviews are conducted on a quarterly basis in February, May, August and November.

Weighting cap factors: With respect to any Index Rebalancing Day t_{Reb}, the target weight $w_{i,t_{Reb}}$ of each fund is determined on the basis of the asset class it is associated with, according to the following table:

Asset Class	$w_{i,t_{Reb}}$
Global Equity	20%
Global Fixed Income	30%
High Yield	30%
Mixed Allocation	20%

Index formula:

$$IV_t = \sum_{i=1}^{4} wf_{i,t} \cdot NAV_{i,t}$$

$$IV_0 = 1000$$

whereby the weighting factor is calculated as $wf_{i,t} = \frac{w_{i,t_{Reb}}}{NAV_{i,t_{Reb}}} \cdot IV_{t_{Reb}}$ and $\mathrm{t_{Reb}}$ refers to the Index Rebalancing Day immediately preceding Dissemination Day t.

70.6.3. ONGOING MAINTENANCE

Index replicability: If STOXX becomes aware through public information or market feedback that the inclusion of a fund severely affects the replicability of the index, STOXX will, after confirming the issue, replace the fund by the next highest ranked fund for the corresponding asset class, whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out").
Such scenarios include but are not limited to fund managers that are not open to have the fund included in a structured product, funds with limits in term of subscription and redemption amounts, or funds that are charging entry and/or exit fees.
If a current component is affected, any change is announced two dissemination days in advance.
If a newly to be added fund is affected STOXX will update the ranking list immediately.

Fund disruption events: If STOXX becomes aware that one of the funds in the index is subject to an Index Disruption Event as listed below the affected fund will be replaced by the next highest ranked fund for the corresponding asset class whereby the newly added fund is assigned the weight of the fund to be removed ("weight in = weight out"). Any change is announced two dissemination days in advance on stoxx.com.

The fund market status as well as the fund assets are monitored on a daily basis.

Furthermore, STOXX will verify on a daily basis whether the return of any component exceeds 2 standard deviations of its 1-year rolling average. Such breach will trigger further investigation into a potential Fund Disruption Events.

In the determination of STOXX the occurrence of any of the following events are each a "Fund Disruption Event":

- a Fund Insolvency Event;
- a Fund Modification;
- a Loss of Fund Assets;
- a Loss of License;
- a Regulatory Action;
- a Reporting Disruption; or

For these purposes:

70.iSTOXX FUND INDICES

"**Fund Insolvency Event"** means that the Fund is **dissolved** or has a resolution passed for its dissolution, winding up, official liquidation.

"Fund Modification" means any **material change or modification of the Prospectus** which could reasonably be expected to affect the stated objective of the Fund.

"Loss of Fund Assets" means, that the aggregate net asset value of the relevant fund falls below USD 100 million.

"**Loss of License**" means the loss of an applicable licence or regulatory authorisation applying to a Fund or any related Service Provider (unless determined that such event is immaterial).

"**Regulatory Action**" means as applicable, the **cancellation, suspension or revocation of the registration or approval of such Fund**, by any governmental, legal or regulatory entity with authority over such Fund or related reference fund, or any **change in the legal, tax, accounting, or regulatory treatments** that is reasonably likely to have an adverse impact on the value of such Fund on any investor therein.

"**Reporting Disruption**" means the occurrence of any event affecting such Fund that would make it **impossible or impracticable to determine the value or risk profile of such Fund** in respect of an Index Dissemination Day, including a failure, suspension or postponement in the reporting or publishing of the Fund value as regularly scheduled.

70.7. iSTOXX TOP CITYWIRE FUND MANAGERS AR INDEX

70.7.1. OVERVIEW

The iSTOXX Top Citywire Fund Managers AR Index replicates the performance of a risk control overlay applied to the iSTOXX Top Citywire Fund Managers Fixed Weights BE Index that targets a volatility of 6% by allocating to both the fund index as well as a money market fund.
In addition, a constant dividend markdown is applied to the index expressed in percent of the index performance that is subtracted on an accrued basis (using an Actual/365 Fixed day count convention). Consequently, due to the percentage of performance being subtracted, the index is underperforming a hypothetical total return index without the decrement deduction.

Underlying index: iSTOXX Top Citywire Fund Managers Fixed Weights BE Index

Index currency: EUR

Index base date and value: 1000 as of February 24, 2009

Return version: Total Return with cash earning a risk-free rate and 2.25% Decrement

Target volatility: $\sigma_{TV} = 6\%$

Dissemination calendar: Same as underlying index

Reallocation day: The Index base day and 16th Calculation day of every month (t_a). If a month has less than 16 Dissemination Days the Index Rebalancing Day is the last Dissemination Day of the month.

70.7.2. CALCULATION FORMULA

$$IV_t = IV_{t-1} \times \left(1 + w_{t-1} \times \left(\frac{UL_t}{UL_{t-1}} - 1\right) + (1 - w_{t-1}) \times \left(\frac{RF_t}{RF_{t-1}} - 1\right) - D \times \frac{d_{t-1,t}}{365}\right)$$

where:

w_{t-1}	= allocation to underlying index effective on day *t*
UL_t	= index value of underlying index on day *t*
RF_t	= net asset value of risk-free asset (BlackRock ICS Euro Liquidity Fund, IE00B29LM231)
D	= Decrement amount (2.25%)
$d_{t-1,t}$	= calendar days between dissemination day *t-1* (excluding) and *t* (including)

Volatility Control Calculation Method
On any Index Dissemination Day t, the returns of the underlying index that are used in the target weight determination are calculated as follows[78]:

[78] Before inception date of the history of the underlying index its daily returns are defined as $r_t = \frac{\sigma_{TV}}{\sqrt{252}}$ implying a realized volatility of σ_{TV} and hence an initial allocation to the index of 100%

$$r_t = \ln\left(\frac{UL_t}{UL_{t-1}}\right)$$

except between a rebalancing day t_{Reb} of the underlying index (including) until *N* days later. During these days in order to calculate realized volatility based fully on the new composition and weighting all returns used to determine the target volatility are calculated as follows:

$$r_t = \ln\left(\frac{\widetilde{UL}_t}{\widetilde{UL}_{t-1}}\right)$$

$$\widetilde{UL}_t = UL_{t_{Reb-1}} \cdot \left(\sum_{i\ in\ I}^{|I|} w_{i,t_{Reb}} \cdot \frac{NAV_{i,t}}{NAV_{i,t_{Reb-1}}}\right)$$

where:

N	= 35 (counted over index Dissemination Days)
t_{Reb-1}	= rebalancing day of underlying index immediately preceding t_{Reb}
I	= set of funds implemented on t_{Reb}
$w_{i,t_{Reb}}$	= weight of fund *i* as implemented on t_{Reb}

Determination of target weight

On any Reallocation Day t_a the target weight is determined as follows:

$$Tgtw_{t_a} = \frac{\sigma_{TV}}{\sigma_{t_a}^N}$$

$$\sigma_{t_a}^N = \sqrt{\frac{252}{N} \times \sum_{k=0}^{N-1} r_{t_a-k-Lag}{}^2}$$

where:

N	= 35 (counted over index Dissemination Days)
Lag	= 3 (counted over index Dissemination Days)

Determination of the index allocation

On any Reallocation Day t_a the index allocation is determined as follows:

$$w_{t_a} = \min(Cap, Tgtw_t)$$

where:

Cap	= 100%

Otherwise:

$$w_t = w_{t-1}$$

70.8. iSTOXX TOP CITYWIRE FUND MANAGERS DAILY HEDGED INDEX

70.8.1. OVERVIEW

A currency-hedged index is designed to represent returns for global index investment strategies that involve hedging currency risk, but not the underlying constituent risk. The currency-hedged strategy indices eliminate the risk of currency fluctuations at the cost of potential currency gains.

Underlying index: iSTOXX Top Citywire Fund Managers Index

Index types and currencies: Price in USD

Base values and dates: 100 on Feb. 27, 2009

Rounding: The index values are rounded to 3 decimal places

Dissemination calendar: The index is calculated on any day

(i) on which all the following stock exchange are open for trading: Dublin, Paris, New York (NYSE), Frankfurt (Xetra), London, and Luxembourg; and

(ii) which is a Funding Calculation Day (Target); and

(iii) which is not one of the following: St. Patrick's Day (March 17), Autumn Holiday (1st Monday of August), Halloween (last Monday of October), Summer Holiday (1st Monday of June), Armistice Day (May 8 and November 11), Bastille Day (July 14), Ascension Day (usually Thursday 39 days after Easter Sunday), Assumption Day (August 15), All Saints Day (November 1), National Holiday (June 23), Corpus Christi (usually Thursday 60 days after Easter Sunday), National Day (October 3), Christmas Holiday (Dublin, defined as 3rd business days after Dec. 24)

70.8.2. CALCULATIONS

In the iSTOXX Top Citywire Fund Managers Daily Hedged index the hedging trade is entered at the end of each calendar month. From that day onwards, the returns of the underlying, unhedged index are integrated by the returns from hedging. The notional amount being hedged is reset on a daily basis.

The full calculation methodology is covered in chapter 18 of the STOXX Strategy Guide.

70.9. iSTOXX CITYWIRE FUND MANAGERS SELECTION FW RISK CONTROL 5% INDEX

70.9.1. OVERVIEW

The iSTOXX Citywire Fund Managers Selection FW Risk Control 5% Index replicates the performance of a risk control overlay applied to the iSTOXX Citywire Top Fund Managers Fixed Weights NF Index that targets a volatility of 5% by allocating to both the fund index as well as cash.

In addition, a constant 2.15% performance deduction per annum is applied to the index: the deduction accrues on a daily basis. Consequently, due to the percentage of performance being subtracted, the index is underperforming a hypothetical index without the decrement deduction.
Underlying index: iSTOXX Top Citywire Fund Managers Fixed Weights NF Index (IXCITYFN)

Index currency: EUR

Index base date and value: 1000 as of February 24, 2009

Return version: Total Return with cash earning a risk-free rate and 2.15% Decrement

Target volatility: $\sigma_{TV} = 5\%$

Dissemination calendar: Same as underlying index.

70.9.2. CALCULATION FORMULA

The index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(1 + w_{t-1} \times \left(\frac{UL_t}{UL_{t-1}} - 1\right) + (1 - w_{t-1}) \cdot IR_{t-1} \cdot \frac{d_{t-1,t}}{360} - D \times \frac{d_{t-1,t}}{365}\right)$$

where:

w_{t-1}	= allocation to underlying index effective on day *t*
UL_t	= index value of underlying index on day *t*
IR_t	= €STR rate on day *t*
D	= Decrement amount (2.15%)
$d_{t-1,t}$	= calendar days between dissemination day *t-1* (excluding) and *t* (including)

70.iSTOXX FUND INDICES

Volatility Control Calculation Method

On any Index Dissemination Day t, the returns of the underlying index that are used in the target weight determination are calculated as follows[79]:

$$r_t = \ln\left(\frac{UL_t}{UL_{t-1}}\right)$$

except between a rebalancing day t_{Reb} of the underlying index (including) until *N* days later. During these days in order to calculate realized volatility based fully on the new composition and weighting all returns used to determine the target volatility are calculated as follows:

$$r_t = \ln\left(\frac{\widetilde{UL}_t}{\widetilde{UL}_{t-1}}\right)$$

$$\widetilde{UL}_t = UL_{t_{Reb-1}} \cdot \left(\sum_{i\ in\ I}^{|I|} w_{i,t_{Reb}} \cdot \frac{NAV_{i,t}}{NAV_{i,t_{Reb-1}}}\right)$$

where:

N	= 30 (counted over index Dissemination Days)
t_{Reb-1}	= rebalancing day of underlying index immediately preceding t_{Reb}
I	= set of funds implemented on t_{Reb}
$w_{i,t_{Reb}}$	= weight of fund *i* as implemented on t_{Reb}

Determination of target weight

On any Index Dissemination Day *t* the target weight is determined as follows:

$$Tgtw_t = \frac{\sigma_{TV}}{\sigma_t^N}$$

$$\sigma_t^N = \sqrt{\frac{252}{N} \times \sum_{k=0}^{N-1} {r_{t-k-Lag}}^2}$$

[79] Before inception date of the history of the underlying index its daily returns are defined as $r_t = \frac{\sigma_{TV}}{\sqrt{252}}$ implying a realized volatility of σ_{TV} and hence an initial allocation to the index of 100%

where:

N	= 30 (counted over index Dissemination Days)
Lag	= 3 (counted over index Dissemination Days)

Determination of the index allocation

On any Index Dissemination Day *t*, the index weight is determined as follows:

$$w_t^{VC} = \begin{cases} \min(Cap, Tgtw_t) & \text{if } |Tgtw_t - w_{t-1}^{VC}| \geq Tol \\ w_{t-1}^{VC} & \text{otherwise} \end{cases}$$

where:

Cap	= 100%
Tol	= 5%

71. iSTOXX DYNAMIC GOLD HEDGE INDICES

71.1. iSTOXX DYNAMIC GOLD HEDGE INDICES

71.1.1. OVERVIEW

The iSTOXX Dynamic Gold Hedge Indices replicate the performance of a dynamic risk control overlay that aims to mitigate downside risk by dynamically allocating equity index exposure to gold in distressed markets. A lower correlation between the two asset classes or a higher relative volatility of equity result in a higher gold exposure.

Base values and dates: The following base values and dates apply: 1000 on Jul 13, 2004

Index types and currencies: Price in EUR.

Index name	Symbol	Underlying Equity Index
EURO iSTOXX 50 Dynamic Gold Hedge	SX5DUO	EURO STOXX 50 (SX5E)
EURO iSTOXX Select Dividend 30 Dynamic Gold Hedge	SD3DUO	EURO STOXX® Select Dividend 30 (SD3E)

Dissemination calendar: The index is calculated on any day, that is a calculation day according to Stoxx Europe Calendar and is not a holiday or a half-trading day in the UK or the 1st of May.

71.1.2. CALCULATIONS

Weighting scheme: Equity allocation is calculated as follows:

$$w_t = \frac{1}{1 + \min\left(1, \max\left(0, -2 \cdot \rho_{t-1}^{10} \frac{\sigma_{I,t-1}^{10}}{\sigma_{G,t-1}^{10}}\right)\right)}$$

where:

$$\rho_t^N = \frac{\sum_{s=t-N+1}^{t} r_{I,s} \cdot r_{G,s}}{\sqrt{\sum_{s=t-N+1}^{t} {r_{I,s}}^2 \sum_{s=t-N+1}^{t} {r_{G,s}}^2}}$$

$$\sigma_t^N = \sqrt{\frac{52}{N} \cdot \sum_{s=t-N+1}^{t} {r_s}^2}$$

$$r_t = \ln\left(\frac{p_t}{p_{t-5}}\right)$$

The rest of the index weight is allocated to gold:

$$w_{G,t} = 1 - w_t$$

Calculation Formula:
On any Dissemination Day t, the index value is calculated as follows:

71. iSTOXX DYNAMIC GOLD HEDGE INDICES

$$IV_t = IV_{t-1} + q_{I,t-1} \cdot (UL_t - UL_{t-1}) + q_{G,t-1} \cdot (\mathrm{G_t} - G_{t-1})$$

With:

$$q_{I,t} = \frac{w_t}{UL_{t-1}} \cdot IV_{t-1}$$

$$q_{G,t} = \frac{w_{G,t}}{G_{t-1}} \cdot IV_{t-1}$$

Where:

IV_t	= Index value on day *t*
UL_t	= Value of the underlying equity index on day *t*
G_t	= Gold mid quote in EUR on day *t* (RIC: XAUEUR=R) [80,81,82]

[80] The end of day index value is calculated using the Gold mid quote at 16:00 CET.
[81] The index values until Mar. 26, 2021 were calculated with the 17:50 CET values. The historical index values until Oct. 24, 2019 were calculated with the 23:00 CET values due to data availability reasons.
[82] XAUEUR=R is a quote-based benchmark. It is used in the closing calculation due to lack of trade-based fixings with a timestamp, that is close to the closing time of the equity index, which would affect replicability of the index.

72. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

72.1. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

72.1.1. OVERVIEW

The iSTOXX Global Ethical Select 30 Index is comprised of 30 liquid stocks with low volatility and high dividend yields that are selected from a pool of companies that are in alignment with the moral and social teachings of the Christian religion (social, environmental, ethical and economic responsibility), with particular reference to the Austrian Conference Board of Catholic Bishops. Industry and country filters are applied in the selection process to ensure diversification.

Companies that are non-compliant as per the Global Standards Screening (GSS) or are involved in Con-troversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Animal Testing, Fur and Specialty Retail, Adult Entertainment, Alcoholic Beverages, Gambling, Tobacco, Abortion, Contraceptives, Human Embryonic Stem Cells, Genetically Modified Plants and Seeds, Pesticides, Palm Oil, Predatory Lending, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, and Nuclear Power are also excluded.

Universe: The index universe is defined as all stocks from the STOXX Global 1800 index

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents with a cap at 10%.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

72.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-monthly historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Controversial Weapons, Animal Testing, Fur and Specialty Retail, Adult Entertainment, Alcoholic Beverages, Gambling, Tobacco, Abortion, Contraceptives, Human Embryonic Stem Cells, Genetically Modified Plants and Seeds, Pesticides, Palm Oil, Predatory Lending, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, and Nuclear Power

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.

72.iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

If information for a company on field i) is missing, then the missing value is substituted by 0.

The Selection list consists of all remaining stocks that fulfil all the conditions below:

- **Global Standards and Controversial Weapons**:
  - Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
    Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
  - Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
    » Internal production or sale of controversial weapons
    » The ultimate holding company owns >10% of voting rights of an involved company
    » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[83]:
  Weapons:
  i. **Small Arms**:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms
  »>10% revenues from retail and/or distribution of assault weapons
  »>10% revenues from retail and/or distribution of small arms (non-assault weapons)
  assault weapons)
  »>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
  ii. **Military Contracting**:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons

[83] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

72.iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Animal Testing:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues related to animal testing for pharmaceutical products, medical devices and biotechnology
»>0% revenues related to animal testing for non-pharmaceutical products
»>0% revenues where based on the company's activities and products, the company is likely to be involved in animal testing for pharmaceutical products, medical devices and biotechnology
»>0% revenues where based on the company's activities and products, the company is likely to be involved in animal testing for non-pharmaceutical products

Fur and Specialty Leather:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing products made from fur or specialty leather
»>0% revenues from the distribution and/or retail of products made from fur or specialty retail

Adult Entertainment:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>10% revenues from the distribution of adult entertainment materials

Alcoholic Beverages:
STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing alcoholic beverages
»>10% revenues from supplying alcohol-related products/services to alcoholic beverage manufacturers
»>10% revenues from the distribution and/or retail of alcoholic beverages

Gambling:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from owning and/or operating a gambling establishment
»>0% revenues from manufacturing specialized equipment used exclusively for gambling
»>0% revenues from providing supporting products/services to gambling operations

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services

72.iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

»>10% revenues from the distribution and/or retail sale of tobacco products.

Abortion:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from the owning or operating one or more acute care hospitals or surgical centres
»>0% revenues from manufacturing drugs that have abortifacient properties

Contraceptives:
STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing contraceptives

Human Embryonic Stem Cells:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from the use of human embryonic stem cells
»>0% revenues from the use of fetal cell lines for vaccine or biologics development
»>0% revenues from developing technologies that enable human embryonic stem cell research

Genetically Modified Plants and Seeds:
STOXX will exclude companies that Sustainalytics identifies to have:
»>5% revenues from the development and/or cultivation of genetically modified seeds and/or plants
»>5% revenues from growing genetically modified crops

Pesticides:
STOXX will exclude companies that Sustainalytics identifies to have:
»>5% revenues from manufacturing pesticides
»>5% revenues from the distribution and/or retail sale of pesticides

Palm Oil:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from the production and/or distribution of palm oil

Predatory Lending:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from predatory lending activities

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Conventional Oil & Gas:

72.iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas
iv) Arctic Oil and Gas Exploration:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
v) Oil Sands:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
vi) Shale Energy:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Nuclear Power:
STOXX will exclude companies that Sustainalytics identifies as having:
»>10% revenues from nuclear power production:
Utilities that own/operate nuclear power generators
Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>10% revenues from nuclear power supporting products / services, including:
Design and construction of nuclear power plants
Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate
»>10% revenues from nuclear power distribution, including:
The resale or distribution of electricity generated from nuclear power;
This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

72. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

If information on any of the above fields is missing for a company, then it is excluded from the eligible universe.

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe, only the most liquid share line is retained

All securities that remain after the application of the exclusion filters above, constitute the Selection list. Effective up until September 2020 review, each security is allocated to one of eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500 and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, each security is allocated to one of eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

Composition list: The following Equal Strength Ratio is calculated:

$$\mathrm{ESR} = \sqrt{\frac{30}{\mathrm{N}}}$$

72. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

where,
N =number of stocks in the selection list

The final composition list with the 30 securities is derived by following the steps below:

1) All securities from the selection list are first ranked in descending order of their historical gross dividend yield, and the number of stocks with the highest dividend yield are selected.

$$\text{number of companies to select (Dividend screen)} = \text{round down of (ESR} * \text{N)}$$

In case two securities have the same dividend yield for a given review cutoff date, priority is given to the one with the lowest volatility (maximum between 3-month and 12-month historical volatility in EUR).

2) Subsequently, the remaining stocks are sorted in ascending order in terms of their volatility (maximum between 3-month and 12-month historical volatility in EUR), and if any companies with zero dividend yield are remaining at this step, they are excluded. Moreover, if two eligible securities have the same volatility, priority is given to the security with the highest dividend yield. The 30 securities with the lowest volatility (maximum between 3-month and 12-month historical volatility in EUR) are selected in such a way that the following conditions are met:

a. Country

For each country i, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$K_i = (SXW1_i + 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in iSTOXX Global Ethical Select 30 Index

$SXW1_i$ weight of the components coming from country i, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global Ethical Select 30 Index

b. Industry

Effective up until September 2020 review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700

72. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 Review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

For each industry j of the 11 industrial groupings above, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$D_j = \left(SXW1_j + 10\%\right) * N$$

where:

D_j maximum number of components from industry j, allowed for inclusion in the iSTOXX Global Ethical Select 30 Index

$SXW1_j$ weight of the components coming from industry j, in the STOXX Global 1800 Index (parent index), as of the cutoff date

N number of constituents in the iSTOXX Global Ethical Select 30 Index

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 is incremented by 1, and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of February, May, August and November respectively.

Weighting cap factors:
Target weights are calculated based on the historical volatility of the selected components:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{30} \frac{1}{\sigma_j}}$$

72. iSTOXX GLOBAL ETHICAL SELECT 30 INDEX

where,

w_i	target weight of component i
σ_i	maximum between the 3-month and 12-month historical volatility of component i as of review cut-off date, based on prices in EUR

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:
Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

72.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. Deletions from the corresponding universe (STOXX Global 1800 Index), which remain in the STOXX Global Total Market Index are not deleted from the index.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

73. EURO iSTOXX ESG WEIGHTED 50 INDEX

73.1. EURO iSTOXX ESG WEIGHTED 50 INDEX

73.1.1. OVERVIEW

The EURO iSTOXX ESG Weighted 50 Index tracks the performance of the 50 largest securities from the EURO STOXX Index that are not involved in fossil fuels. Industry neutrality filters are applied in the selection process to ensure diversification.

STOXX will exclude companies that are not compliant based on the Sustainalytics Global Standards Screening assessment, have Severe Controversy Rating (Category 5) or are involved in Controversial Weapons. Moreover, companies involved in Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy) or Thermal Coal are also not eligible for selection.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors determined according to the constituents' ESG ranks

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

73.1.2. INDEX REVIEW

Selection list:

The review cut-off date is the last dissemination day of the month preceding the review month of the index.

On the review cut-off date, the securities in the selection list are screened for the following indicators:

i. ESG scores, as sourced from Sustainalytics' ESG Rating dataset
ii. Product involvement in: Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy) and Thermal Coal

If any of the fields i) to ii) above have missing information for a stock, then that company is not eligible for selection.

The Selection list constitutes of all remaining stocks that fulfil the conditions below, in the order they are listed:

- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

73. EURO iSTOXX ESG WEIGHTED 50 INDEX

- Do not have Severe Controversy Rating (Category 5). Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

- Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- Securities with ESG scores of below 50 are not eligible for selection

- Not have any Product Involvement in the following areas[84]:

Conventional Oil & Gas:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>0% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

[84] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

73. EURO iSTOXX ESG WEIGHTED 50 INDEX

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Composition list:
Effective up until September 2020 review, each of the remaining securities in the selection list are allocated to one of the ten industry groupings according to their ICB code as follows:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Industry 8000
Technology	Industry 9000

Effective with September 2020 review, each of the remaining securities in the selection list are allocated to one of the ten industry groupings according to their ICB code as follows:

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industries 30 and 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

The securities are then ranked in decreasing order of their free float market capitalization. In case two companies for a given cut-off date have the same free float market capitalization, priority is given to the one with the highest ESG score. The 50 largest securities are then selected, with a maximum of 8 components out of the total 50 coming from each of the 10 industrial groupings.

73. EURO iSTOXX ESG WEIGHTED 50 INDEX

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The selected 50 securities are ranked in ascending order of their ESG scores, so that the securities with the lowest ESG scores are ranked at the top, and those with the highest ratings at the bottom of the list. In case two securities have the same ESG score for a given cut-off date, priority is given to the one with higher free float market capitalization (i.e. the larger security is given a higher ranking, and larger weight). The securities are then issued linearly increasing weights:

$$w_1 = 0.5\%$$

$$step = \frac{100\% - 50 * w_1}{49 * 25} = \frac{3\%}{49}$$

$$w_i = w_1 + step * (i - 1)$$

$w$here:
w_1 weight of the security with the lowest ESG score
i i^{th} security
w_i weight of the ith security

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

73.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

74. iSTOXX GERMANY REAL ESTATE CAPPED 20 INDEX

74.1. iSTOXX GERMANY REAL ESTATE CAPPED 20 INDEX

74.1.1. OVERVIEW

The iSTOXX Germany Real Estate Capped 20 index is a capped index with all German real estate included in the STOXX® Global Total Market index. Every 6 months all components are rebalanced and capped to 20%.

Universe: Effective up until September 2020 review, all the companies of the STOXX Global Total Market Index, with ICB supersector codes 8600 and country Germany. Effective with September 2020 review, all the companies of the STOXX Global Total Market Index, with ICB supersector codes 3510 and country Germany.

Weighting scheme: The indices are weighted according to Free Float Market Capitalization

Base values and dates: 1000 on Sep 16, 2016

Index types and currencies: Price, Net Return and Gross Return in EUR

Dissemination Calendar: STOXX Europe calendar

74.1.2. INDEX REVIEW

Review frequency: The reviews are conducted on a semi-annual basis in March and September together with the parent index.

Weighting cap factors: The components are capped to 20% at review.

74.1.3. ONGOING MAINTENANCE

Replacements: Not applicable.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: performed in line with the STOXX Global Total Market Index

Mergers and takeovers: performed in line with the STOXX Global Total Market Index

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

75. iSTOXX CROSS-ATLANTIC SUSTAINABLE INFRASTRUCTURE SELECT 30

75.1. iSTOXX CROSS-ATLANTIC SUSTAINABLE INFRASTRUCTURE SELECT 30 INDEX

75.1.1. OVERVIEW

The iSTOXX Cross-Atlantic Sustainable Infrastructure Select 30 Index tracks companies involved in the construction and deployment of public infrastructure works in the US, Canada and Europe, and that show the highest environmental standards. Final index screens select stocks with the lowest volatilities and highest dividend yields.

Index constituents provide assets and services needed to meet one of the biggest endeavors of the 21st century: the upgrading of public infrastructure in developed markets to support growing populations, urbanization, technological advancements and climate change. A list of more than 500 business sectors categorized by Revere (RBICS) help determine which companies derive revenues from the infrastructure theme.

The index excludes companies that are non-compliant with Sustainalytics Global Standards Screening, and those involved with weapons, adult entertainment, gambling, oil & gas, thermal coal, nuclear power or tobacco. It incorporates those with the highest scores in 15 Key Performance Indicators for environmental practices and programs within their operations and management.

The final composition list is made up of the 30 companies from the pre-selected universe that have the lowest volatilities and highest dividend yields, observing caps in the representation of ICB sectors and countries to ensure diversification.

Universe: The index universe is defined by all stocks included in the STOXX Europe Total Market, STOXX USA Total Market and STOXX Canada Total Market indices, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in local currency) of the constituents.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

75.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical net dividend yield
ii. 3-month and 12-month historical volatility in local currency
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and

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Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco

v. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

vi. Scores on 15 Environmental Key Performance Indicators from Sustainalytics' model that relate to sustainable infrastructure. The 15 indicators are defined as follows:

a. E.1.2.1 Biodiversity Programmes: This indicator provides an assessment of the quality of programmes to protect biodiversity.
b. E.1.2.7 Water Intensity: This indicator provides an assessment of the company's external cost of water-related impacts.
c. E.1.3.4 Water Management Programmes: This indicator provides an assessment of the quality of programmes to reduce fresh water use.
d. E.1.7.1 Green Logistics Programmes: This indicator provides an assessment of the quality of a company's programmes to improve the environmental performance of its own logistics and fleet management.
e. E.2.1 Green Procurement Policy: This indicator provides an assessment of the quality of a company's green procurement's commitment and initiatives.
f. E.2.1.6 Green Outsourced Logistics Programmes: This indicator provides an assessment of the quality of a company's programmes to reduce GHGs from outsourced logistic services.
g. E.2.1.7 Recycled Material Use: This indicator provides an assessment of the company's data on its use of recycled and/or re-used raw material and on its performance in this matter.
h. E.3.1.3 Fleet Emissions: This indicator provides an assessment of a carmaker's sales-weighted fleet average CO2 emissions.
i. E.3.1.5 Sustainable Mobility Products: This indicator provides an assessment of the company's initiatives to make products that improve sustainability in transport vehicles.
j. E.3.1.6 Eco-Design: This indicator provides an assessment of whether there are policies and programmes to systematically consider environmental aspects at the R&D or design stage of products.
k. E.3.1.7 Product Stewardship Programmes: This indicator provides an assessment of whether the company has end-of-life product management programmes and targets, and whether initiatives are taken to take-back or recycle these products.
l. E.3.1.12 Real Estate LCA: This indicator provides an assessment of the amount of new real estate projects to which the company applies a Life Cycle Analysis (LCA).
m. E.3.1.13 Green Buildings Investments: This indicator provides an assessment of whether the company has any programmes to increase investments in sustainable buildings and whether it has defined any quantitative targets with clear deadlines for reaching these targets.
n. E.3.1.14 Share of Green Buildings: This indicator provides an assessment of the share of sustainable buildings as a percentage of the total property portfolio.
o. E.3.1.17 Carbon Intensity of Generation: This indicator provides an assessment of the energy mix generated by a utility provider and determines how carbon intensive it is.

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.

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If information for a company on field i) is missing, then the missing value is substituted by 0. Information for field v) is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cutoff date is used. If this information is missing, then the company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR

- **Revenues**: Aggregated revenue exposure equal to or exceeding 10%, from the RBICS sectors associated with "Infrastructure" (see table below)

- **Global Standards**: Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- **Controversial Weapons**: Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[85]:

  Weapons:
  i) Small Arms:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>50% significant ownership of a company that manufactures and sells assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>50% significant ownership of a company that manufactures and sells small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms

[85] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

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»>50% significant ownership of a company that manufactures and sells key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>50% significant ownership of a company involved in retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>50% significant ownership of a company involved in retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
»>50% significant ownership of a company manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>50% significant ownership of a company involved in manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>50% significant ownership of a company involved in tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry
»>50% significant ownership of a company involved in non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>50% significant ownership of another company with involvement in the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials
»>50% significant ownership of another company with involvement in the distribution of adult entertainment

Gambling:

STOXX will exclude companies that Sustainalytics identifies to have:
»>25% revenues from owning and/or operating a gambling establishment
»>50% significant ownership of another company with involvement in owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>50% significant ownership of another company with involvement in manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations
»>50% significant ownership of another company with involvement in providing supporting products/services to gambling operations

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Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions
»>50% significant ownership (extraction) of a company that is involved in Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
»>50% significant ownership of a company that is involved in extraction of oil sands

iii) Shale Energy:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production
»>50% significant ownership of a company that is involved in shale energy exploration and/or production

Conventional Oil & Gas:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>50% significant ownership of a company that is involved in exploration, production, refining, transportation and storage of oil and/or gas
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>50% significant ownership of a company that is involved in the provision of tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage.
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)
»>50% significant ownership of a company that is involved in involvement in the generation of electricity from oil and/or gas

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>50% significant ownership of a company that is involved in the extraction of thermal coal
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)
»>50% significant ownership of a company that is involved in the generating electricity from thermal coal

Nuclear Power:

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STOXX will exclude companies that Sustainalytics identifies as having:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>50% significant ownership of a company involved in producing nuclear power
»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>50% significant ownership of a company involved in providing products / services that support the nuclear power industry
»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

»>50% significant ownership of a company involved in distribution of electricity generated from nuclear power

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>50% significant ownership of a company that is involved in the manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>50% significant ownership of a company that is involved in supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.
»>50% significant ownership of a company that is involved in distribution and/or retail sale (>10% total revenues) of tobacco products.

- **Environmental Key Performance Indicators**: Having a score on the 15 environmental KPIs, that exceeds the thresholds displayed in the table below, in at least half the KPIs for which the company is assessed.

Indicator Number	Indicator Name	Threshold
E.1.2.1	Biodiversity Programmes	25
E.1.2.7	Water Intensity	25
E.1.3.4	Water Management Programmes	25
E.1.7.1	Green Logistics Programmes	0
E.2.1	Green Procurement Policy	0

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E.2.1.6	Green Outsourced Logistics Programmes	0
E.2.1.7	Recycled Material Use	20
E.3.1.3	Fleet Emissions	30
E.3.1.5	Sustainable Mobility Products	0
E.3.1.6	Eco-Design	0
E.3.1.7	Product Stewardship Programmes	0
E.3.1.12	Real Estate LCA	0
E.3.1.13	Green Buildings Investments	0
E.3.1.14	Share of Green Buildings	10
E.3.1.17	Carbon Intensity of Generation	25

Assessment of these KPIs does not apply for all peer groups, and for certain companies some of these KPIs are not applicable to their business model. KPIs for which ESG research is not available, are not taken into account for the purposes of this exercise. Example: If a company is assessed in 3 KPIs out of the 15, then that company will be eligible for the next step of the selection process if it displays a score that exceeds the corresponding threshold in at least 2 of the 3 indicators.

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained

List of RBICS sectors associated with "Infrastructure" for the purposes of component selection:

Nr	Sector	Nr	Sector
1	Access Systems Manufacturing	265	Latin America Natural Gas Pipeline and Storage
2	Adhesives and Sealants Manufacturing	266	Latin America Natural Gas Wholesale Power
3	Africa and Non-US Americas Air Passenger Services	267	Latin America Nuclear Wholesale Power
4	Air Freight Transportation Operators	268	Latin America Petroleum Storage and Transport
5	Air Purification and Filtration Equipment Products	269	Latin America Propane and LPG Marketing and Dist.
6	Air Transport Infrastructure and Support Providers	270	Latin America Solar Wholesale Power
7	Air, Liquid and Gas Control Equipment Products	271	Latin America Wind Wholesale Power
8	Airport/Flight Support Infrastructure Operators	272	Light Emitting Diode Discrete Semiconductors
9	Alarm Systems Manufacturing	273	Lighting Equipment and Components Manufacturing
10	Alt. Energy Autonomous Heavy Duty Truck Makers	274	Lighting Fixtures and Light Bulbs Manufacturing
11	Alt. Energy Autonomous Transit Vehicle Production	275	Lime and Gypsum Products Manufacturing
12	Alt. Energy Motor Homes and Campers (RVs) Makers	276	Linen and Uniform Supply Services
13	Alt. Energy Recreation Vehicle Manufacturing	277	Liquid and Water Purification/Filtration Products
14	Alternative Energy Boats Makers	278	Liquid Petroleum and Other Liquids Transportation
15	Alternative Energy Car Manufacturers	279	LNG (Liquid Natural Gas) Transportation
16	Alternative Energy Heavy Duty Trucks Makers	280	Locks and Deadbolts Manufacturing
17	Alternative Energy Infrastructure Construction	281	Luxury Hotels and Resorts

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18	Alternative Energy Motorcycles Makers
19	Alternative Energy Transit Vehicles Makers
20	Ambulance (Transportation)
21	Ambulatory and Outpatient Care
22	Americas Natural Gas Utilities
23	Americas Water Utilities
24	Apartment Equity REITs
25	Architectural Glass Manufacturing
26	Asia (Excluding China) Wireless Services
27	Asia (Excluding China) Wireline Services
28	Asia Excluding China Mixed Telecommunications
29	Asia/Pacific Air Passenger Service Providers
30	Asia/Pacific CNG and LNG Distributors
31	Asia/Pacific Crude Oil Liquid Pipeline/Storage
32	Asia/Pacific Electric Power Utilities
33	Asia/Pacific Natural Gas Pipeline and Storage
34	Asia/Pacific Natural Gas Utilities
35	Asia/Pacific Petroleum Storage and Transport
36	Asia/Pacific Propane and LPG Marketing and Dist.
37	Asia/Pacific Rail Transportation
38	Asia/Pacific Water Utilities
39	Asphalt Manufacturing
40	Asphalt, Cement and Concrete Product Manufacturing
41	Asset Tracking GPS Systems Manufacturing
42	Assisted Living
43	Australia and New Zealand Wireless Services
44	Australia and New Zealand Wireline Services
45	Australia/New Zealand Mixed Telecom Services
46	Autonomous Control Ship Builders
47	Autonomous Drone Manufacturers
48	Autonomous Drone Parts Manufacturers
49	Autonomous Transport Control Software
50	Autonomous Vehicles Semiconductors
51	Backup, Emergency and Standby Power Products
52	Biodiesel Fuel Manufacturing
53	Budget Hotels and Motels
54	Building Components Automation Providers
55	Building Construction
56	Building Maintenance and Engineering Services
57	Bus Transportation
282	Manufactured Building Makers
283	Manufactured Homes Equity REITs
284	Metal Recycling Providers
285	Mexico Mixed Telecommunications Services
286	Microprocessor (MPU) Semiconductors
287	Middle East and Africa Biomass Wholesale Power
288	Middle East and Africa CNG and LNG Distributors
289	Middle East and Africa Geothermal Wholesale Power
290	Middle East and Africa Mixed Alt. Wholesale Power
291	Middle East and Africa Mixed Telecom Services
292	Middle East and Africa Mixed Trad. Wholesale Power
293	Middle East and Africa Mixed Wholesale Power
294	Middle East and Africa Natural Gas Wholesale Power
295	Middle East and Africa Nuclear Wholesale Power
296	Middle East and Africa Solar Wholesale Power
297	Middle East and Africa Wind Wholesale Power
298	Middle East and Africa Wireless Services
299	Middle East and Africa Wireline Services
300	Middle East/Africa Crude Oil Liq. Pipeline/Storage
301	Middle East/Africa Decentralized Wholesale Power
302	Middle East/Africa Hydroelectric Wholesale Power
303	Middle East/Africa Nat. Gas Pipeline and Storage
304	Middle East/Africa Petroleum Storage and Transport
305	Middle East/Africa Propane and LPG Mktg. and Dist.
306	Mideast/Africa Mixed Fossil Fuel Wholesale Power
307	Minimills Manufacturing Flats
308	Minimills Manufacturing Longs
309	Minimills Tubular Product Makers
310	Mining and Excavation Equipment Manufacturing
311	Mixed Architecture/Infrastructure Component Makers
312	Mixed Building/Physical Security Equipment Makers
313	Mixed Cruise and Land-Based Accommodations
314	Mixed Heavy Building Materials/Aggregates Makers
315	Mixed International Telecommunications Services
316	Mixed Renewable Energy Generation Manufacturing
317	Mixed Specialty and Commodity Chemical Makers
318	Mixed-Type Hotels, Motels and Resorts
319	Monitoring and Control Sensor/Instrument Products
320	Multinational Electric Power Utilities
321	Multinational Transmission, Dist., and Storage

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58	Business Event and Conference Organizers
59	Cabinets and Countertops Manufacturing
60	Cable Interconnect Components
61	Canada Biomass Wholesale Power
62	Canada Decentralized Wholesale Power
63	Canada Geothermal Wholesale Power
64	Canada Hydroelectric Wholesale Power
65	Canada Mixed Alternative Wholesale Power
66	Canada Mixed Fossil Fuel Wholesale Power
67	Canada Mixed Telecommunications Services
68	Canada Mixed Traditional Fuel Whole Power
69	Canada Mixed Wholesale Power
70	Canada Natural Gas Pipeline and Storage
71	Canada Natural Gas Wholesale Power
72	Canada Nuclear Wholesale Power
73	Canada Solar Wholesale Power
74	Canada Wind Wholesale Power
75	Canada Wireline Services
76	Carbon Capture Services and Technologies
77	Carbon Transportation and Sequestration Services
78	Carrier Core (Backbone) Equipment
79	Cellular Site Equipment
80	Cement Manufacturing
81	Central and Eastern Europe Mixed Telecom Services
82	Central and Eastern Europe Wireless Services
83	Central and Eastern Europe Wireline Services
84	Central and South America Mixed Telecom Services
85	Central and South America Wireless Services
86	Central and South America Wireline Services
87	China Biomass Wholesale Power
88	China Decentralized Wholesale Power
89	China Geothermal Wholesale Power
90	China Hydroelectric Wholesale Power
91	China Mixed Alternative Wholesale Power
92	China Mixed Fossil Fuel Wholesale Power
93	China Mixed Telecommunications Services
94	China Mixed Traditional Fuel Wholesale Power
95	China Mixed Wholesale Power
96	China Natural Gas Wholesale Power
97	China Nuclear Wholesale Power
322	Multi-National Water Utilities
323	Multinational Wholesale Power
324	Multiple Services to Buildings and Dwellings
325	Multi-Product Adhesive, Sealant and Paint Makers
326	Multi-Region Air Passenger Transportation
327	Multi-Size Trucking Road Transportation
328	Multi-type Commercial and Transit Vehicles Makers
329	Multi-Type Deep Sea and Offshore Shipping
330	Multi-Type Equity REITs
331	Multi-type Heavy Duty Trucks and Trailers Makers
332	Multi-Type Passenger Transportation
333	Multi-Type Petroleum Transportation
334	Multi-Type Resource/Construction Machinery Makers
335	Multi-Type Small Appliances and Accessories Makers
336	Multi-Type United States Wireless Services
337	Multi-Type United States Wireline Services
338	National Electric Utilities
339	Natural Gas Infrastructure Construction
340	Natural Resource/Construction Machinery Products
341	Network Administration Software
342	Network Security Software
343	Networking Semiconductors
344	Office Equity REITs
345	Operation and Maintenance Services
346	Optoelectronics Electronic Components
347	Oriented Strand Board (OSB) Manufacturing
348	Other Americas Electric Power Utilities
349	Other Americas Railroad Transportation
350	Other Asia/Pac Mixed Fossil Fuel Wholesale Power
351	Other Asia/Pacific Biomass Wholesale Power
352	Other Asia/Pacific Decentralized Wholesale Power
353	Other Asia/Pacific Geothermal Wholesale Power
354	Other Asia/Pacific Hydroelectric Wholesale Power
355	Other Asia/Pacific Mixed Alt. Wholesale Power
356	Other Asia/Pacific Mixed Trad. Wholesale Power
357	Other Asia/Pacific Mixed Wholesale Power
358	Other Asia/Pacific Natural Gas Wholesale Power
359	Other Asia/Pacific Nuclear Wholesale Power
360	Other Asia/Pacific Solar Wholesale Power
361	Other Asia/Pacific Wind Wholesale Power

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98	China Solar Wholesale Power
99	China Wind Wholesale Power
100	China Wireless Services
101	China Wireline Services
102	Closed Circuit Television (CCTV) Systems/Products
103	CNG and LNG Distributors
104	Colocation and Data Center Services
105	Commercial and Residential Property Owners
106	Commercial Mortgage Banking and Services
107	Commercial Property Owners
108	Commercial Real Estate Services and Brokers
109	Commercial Specialty Engineering Contractors
110	Commercial Transportation Equipment Distributors
111	Commercial/Public Service Vehicle Component Makers
112	Communications Infrastructure Software
113	Compressor and Pumping Equipment Manufacturing
114	Computer Aided Design (CAD) Software
115	Concrete Blocks, Bricks and Aggregates Makers
116	Container Deep Sea and Offshore Shipping
117	Conventional Autonomous Transit Vehicles Makers
118	Conventional Engine Autonomous Truck Makers
119	Correctional Institutions
120	Crude Oil Liquid Pipeline and Storage
121	Crude Oil Transportation
122	Customer Premises Network Security Equipment
123	Data Center Equity REITs
124	Data Transport Carrier Services
125	Decorative Component Manufacturing
126	Design, Integration and Implementation Consulting
127	Disk Storage Systems
128	Diverse Business Process Outsourcing Services
129	Diverse Construction and Engineering Services
130	Diversified Consumer Vehicle Manufacturing
131	Diversified Electrical/Power System Manufacturing
132	Diversified General Waste Collection
133	Diversified Hazardous Materials Disposal
134	Diversified Household Products Makers
135	Diversified Patient Care
136	Diversified Real Estate Investment and Services
137	Diversified REITs
362	Other Building Materials and Garden Supply Stores
363	Other Carrier Services
364	Other Commercial Transportation Equipment Makers
365	Other Communications Semiconductors
366	Other Construction Wood Products Makers
367	Other Core Infrastructure Equipment
368	Other Environmental Control Machine Manufacturing
369	Other Heating and Cooling Equipment Manufacturing
370	Other Hospitals
371	Other Household Products Manufacturing
372	Other Industrial Electrical Product Manufacturing
373	Other Infrastructure Construction
374	Other Interconnect Components
375	Other International Energy Utilities
376	Other Local Area Networking Equipment
377	Other Long-Term Care Facilities
378	Other Memory Semiconductors
379	Other Metal Processing and Recycling Providers
380	Other Nonvolatile Memory Semiconductors
381	Other Optoelectronics Discrete Semiconductors
382	Other Pipeline and Energy Storage Services
383	Other Post-Secondary Education
384	Other Processor Semiconductors
385	Other Road Transportation
386	Other Small Home Appliances Makers
387	Other Test and Measurement Equipment
388	Other United States Electric Utilities
389	Other United States Energy Utilities
390	Other Waste Services
391	Other Water Transportation
392	Other Wide Area Networking (WAN) Equipment
393	Other Wireless Equipment
394	Paints Manufacturing
395	Pan-America Wireless Services
396	Pan-Americas Mixed Telecommunications Services
397	Pan-Americas Mixed Wholesale Power
398	Pan-Asia/Pacific Mixed Telecommunications Services
399	Pan-Asia/Pacific Wholesale Power
400	Pan-Europe Mixed Telecommunications Services
401	Parking Facility Services

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138	Diversified Residential Mortgage Banking/Services
139	Diversified Semiconductor Manufacturing Services
140	Diversified Technology Hardware
141	Dredging and Marine Construction
142	Dry Bulk Deep Sea and Offshore Shipping
143	Education Information and News Media and Sites
144	Educational Support Services
145	Electric Vehicle Charging Stations
146	Electrical Systems and Equipment Manufacturing
147	Electricity Infrastructure Construction
148	Electronic Interconnect Components
149	Electronic Security Identification Equipment
150	Electronic System Security Equipment
151	Electronic Waste Services
152	Emission Control Services and Technologies
153	Energy Efficient Lighting and LED Manufacturing
154	Energy Plant Infrastructure Construction
155	Enterprise Middleware Software
156	Enterprise Security Management Software
157	Environmental Consulting
158	Environmental Services
159	Europe Air Passenger Service Providers
160	Europe Biomass Wholesale Power
161	Europe CNG and LNG Distributors
162	Europe Crude Oil Liquid Pipeline/Storage
163	Europe Decentralized Wholesale Power
164	Europe Geothermal Wholesale Power
165	Europe Hydroelectric Wholesale Power
166	Europe Mixed Alternative Wholesale Power
167	Europe Mixed Fossil Fuel Whole Power
168	Europe Mixed Traditional Fuel Wholesale Power
169	Europe Mixed Wholesale Power
170	Europe Natural Gas Pipeline and Storage
171	Europe Natural Gas Utilities
172	Europe Natural Gas Wholesale Power
173	Europe Nuclear Wholesale Power
174	Europe Petroleum Storage and Transport
175	Europe Propane and LPG Marketing and Dist.
176	Europe Solar Wholesale Power
177	Europe Wind Wholesale Power
402	Passenger Rail Transportation
403	Peripheral Semiconductors
404	Pest Control Services
405	Petroleum Liquid Pipeline and Storage
406	Petroleum Storage and Transportation
407	Photovoltaic and Solar Cells and Systems Providers
408	Pipes and Pipe Fittings Manufacturing
409	Plumbing Fixtures and Trim Manufacturing
410	Plywood, Hardwood and Softwood Veneer Products
411	Power Generation Infrastructure Construction
412	Power, Control and Mixed Signal Semiconductors
413	Primary Patient Care
414	Process Plants, Utilities and Energy Construction
415	Professional/Contractor Suppliers
416	Programmable Logic Device Semiconductors
417	Propane and LPG Marketing and Distribution
418	Public Infrastructure Components Manufacturing
419	Radio Broadcasting
420	Rail Equipment Manufacturers
421	Ready-Mix Concrete Makers
422	Real Estate and Construction Industry Software
423	Real Estate Developers
424	Recycling Services
425	Refined Petroleum and Other Liquid Transportation
426	Rehabilitation Patient Care
427	Residential Mortgage REITs
428	Residential Property Owners
429	Residential Real Estate Services and Brokerage
430	Residential Specialty Engineering Contractors
431	Retail Equity REITs
432	RF Analog and Mixed Signal Semiconductors
433	RFID Asset Tracking Equipment Manufacturing
434	Road Transportation Infrastructure and Support
435	Security and Management Consulting
436	Security Systems Services
437	Self-Storage Equity REITs
438	Server Computer Systems
439	Sewage and Water Infrastructure Construction
440	Ship Builders and Ship Repairs
441	Shipping Infrastructure and Services (Ports)

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178 Europe, Middle East and Africa Electric Utilities
179 Europe, Middle East and Africa Rail Transportation
180 Europe, Middle East and Africa Water Utilities
181 Express Couriers
182 Fixed Microwave Systems Equipment
183 Flash Memory Semiconductors
184 Flooring Manufacturing
185 Freight Less-Than-Truckload Road Transportation
186 Freight Truckload Road Transportation
187 Fuel Cell Equipment and Technology Providers
188 Fuel, Component and Maintenance Providers
189 Full Service Hotels and Resorts
190 Garbage Services
191 General Analog and Mixed Signal Semiconductors
192 General and Acute Hospitals
193 General and Mixed-Type Software
194 General Architectural Component Manufacturing
195 General Building Materials Distribution
196 General Carrier Edge (Access) Equipment
197 General Coatings and Paints Makers
198 General Communications Equipment
199 General Construction Materials Manufacturing
200 General Customer Premises Equipment (CPE)
201 General Delivery and Logistics Providers
202 General Facilities and Other Support Services
203 General Oil and Gas Operations Support Activities
204 General Security Services
205 General Transportation and Related Services
206 General Transportation Equipment Manufacturing
207 General United States Telecommunications Services
208 Geothermal Energy Equipment Manufacturing
209 Global Energy Utilities
210 Government and Public Service Industry Software
211 Government IT Services
212 Greenhouse Gas Emission Services
213 Hardware, Plumbing and HVAC Supplies
214 Hazardous/Industrial Waste Disposal
215 Healthcare and Life Sciences Equity REITs
216 Healthcare General Support Services
217 Healthcare Management Software
442 Skilled Nursing Facility (Nursing Home)
443 Smart Grid Technology and Smart Meter Products
444 Smart Phone Manufacturing
445 Soil Remediation
446 Solid Waste Recycling Equipment Manufacturing
447 Specialized Patient Care
448 Specialty Analog and Mixed Signal Semiconductors
449 Specialty Contractors
450 Structural Support Component Manufacturing
451 Student and Specialty Housing Equity REITs
452 Technology Equipment Support and Installation
453 Telecommunications Construction
454 Telecommunications Customer Relationship Software
455 Telemedicine
456 Test and Measurement Communications Equipment
457 Title Commercial Insurance
458 Toll Road Operators
459 Tools and Outdoor Care Building Hand Tool Products
460 Tower Equity REITs
461 Traditional Energy Infrastructure Construction
462 Traffic Safety and Management Equipment Products
463 Transportation Construction
464 Transportation Industry Software
465 United States Air Passenger Service Providers
466 United States Biomass Wholesale Power
467 United States Class I Railroad Transportation
468 United States Decentralized Wholesale Power
469 United States Geothermal Wholesale Power
470 United States Hydroelectric Wholesale Power
471 United States Midwest Electric Utilities
472 United States Midwest Natural Gas Utilities
473 United States Mixed Alternative Wholesale Power
474 United States Natural Gas Utilities
475 United States Northeast Electric Utilities
476 United States Northeast Natural Gas Utilities
477 United States Nuclear Wholesale Power
478 United States Satellite Services
479 United States Short-Line Railroad Transportation
480 United States Solar Wholesale Power
481 United States South Atlantic Electric Utilities

75. iSTOXX CROSS-ATLANTIC SUSTAINABLE INFRASTRUCTURE SELECT 30 INDEX

218	Healthcare Operations Support Software
219	Heating, Ventilation and Air Conditioning Products
220	Home Builders
221	Home Builders and Manufactured Buildings
222	Home Centers and Hardware Stores
223	Home Healthcare
224	Hotel and Motel Equity REITs
225	Household Robot Makers
226	Hydroelectric Power Generation Equipment Providers
227	Hydrogen Fuel Manufacturing
228	IC-Level Electronic Design Software
229	IC-Level Intellectual Property Software Libraries
230	Industrial and Construction Additive Manufacturing
231	Industrial and Engineering Hand Tool Manufacturing
232	Industrial and Warehouse Equity REITs
233	Industrial Construction Contractors
234	Industrial Glass Products Manufacturing
235	Infrastructure Consulting and Design Services
236	Inland Waterways Shipping
237	Insulation Manufacturing
238	Integrated Specialty Steel Mills Manufacturing
239	Integrated Steel Mills Manufacturing Longs
240	Integrated Steel Mills Mixed Production Makers
241	Interior/Exterior Covering Materials Distribution
242	Intermodal/Multimodal Services
243	International Electricity Generator Utilities
244	International Fixed Satellite Services
245	International Mobile Satellite Services
246	International Natural Gas Pipeline and Storage
247	International Natural Gas Utilities
248	Internet Building Materials / Garden Supply Retail
249	Janitorial and Industrial Cleaning Services
250	Land Equity REITs
251	Landfill Services
252	Landscaping Services
253	Lasers and Optical Instrument Manufacturing
254	Latin America Biomass Wholesale Power
255	Latin America CNG and LNG Distributors
256	Latin America Crude Oil Liquid Pipeline/Storage
257	Latin America Decentralized Wholesale Power
482	United States South Electric Utilities
483	United States South Natural Gas Utilities
484	United States Transmission, Dist., and Storage
485	United States Video and Television Services
486	United States Water Utilities
487	United States West Electric Utilities
488	United States West Natural Gas Utilities
489	United States Wind Wholesale Power
490	United States Wireless Business Data Services
491	United States Wireline Business Data Services
492	United States Wireline Data Services
493	US and Canada CNG and LNG Distributors
494	US and Canada Crude Oil Liquid Pipeline/Storage
495	US and Canada Natural Gas Pipeline and Storage
496	US and Canada Petroleum Storage and Transport
497	US and Canada Propane and LPG Mktg. and Dist.
498	US Mixed Fossil Fuel Wholesale Power
499	US Mixed Traditional Fuel Wholesale Power
500	US Mixed Wholesale Power
501	US Natural Gas Pipeline and Storage
502	US Natural Gas Wholesale Power
503	US Voice Over IP Telephony (VoIP) Services
504	US West South Central Electric Utilities
505	Utility Infrastructure Construction
506	Utility Meter Manufacturing
507	Vacation Ownership Operators
508	Vehicle Autonomous Control Electronics Makers
509	Vehicle Autonomous Control Software
510	Vision Health Services
511	Volatile Memory Semiconductors
512	Waste-to-Energy Services
513	Wastewater Residual Management
514	Wastewater Treatment Services
515	Water Transportation (Ferry Service)
516	Water Treatment Agents Manufacturing
517	Wave Energy Equipment Manufacturing
518	Western Europe Mixed Telecommunications Services
519	Western Europe Wireless Services
520	Western Europe Wireline Services
521	Wind Energy Equipment Manufacturing

75. iSTOXX CROSS-ATLANTIC SUSTAINABLE INFRASTRUCTURE SELECT 30 INDEX

258	Latin America Electric Power Utilities	522	Windows and Doors Manufacturing
259	Latin America Geothermal Wholesale Power	523	Wireless and Wi-Fi Equipment
260	Latin America Hydroelectric Wholesale Power	524	Wireless Infrastructure Services
261	Latin America Mixed Alternative Wholesale Power	525	Wireline Equipment
262	Latin America Mixed Fossil Fuel Whole Power	526	Wireline Infrastructure Services
263	Latin America Mixed Traditional Wholesale Power	527	Wires and Cables Manufacturing
264	Latin America Mixed Wholesale Power		

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in local currency) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical net dividend yield).
2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Sector
   Maximum of 6 components out of the total 30 coming from each ICB Sector (Level 3).

   b. Country
   Maximum of 7 components out of the total 30 coming from each country.
   :

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($\mathrm{Z} = \mathrm{Z} + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

75. iSTOXX CROSS-ATLANTIC SUSTAINABLE INFRASTRUCTURE SELECT 30 INDEX

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in the security's local currency
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

75.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

76. iSTOXX SPREAD RATIO INDICES

76.1. iSTOXX SPREAD RATIO INDICES

76.1.1. OVERVIEW

The iSTOXX Spread Ratio indices aim to offer exposure to the relative value spread, which is defined as the ratio between two securities that are related to the same company.
The relationship between these two securities may vary: For example, the securities may be issued by related but different entities or refer to different parts of the company's capital structure. The relative value of the two securities is measured using 5-day moving averages. In addition 1-day versions are calculated.

Index types and currencies: Price

Base values and dates: See the STOXX vendor code sheet.

Dissemination calendar: Intersection of the exchange trading day calendars valid for the securities involved in each ratio calculation.

Each index of the family consists of two securities, referred to as leg 1 and leg 2. The composition of each index is fixed over time and only one of the extraordinary events listed below will cause the index to be discontinued.

76.1.2. CALCULATION

On any Dissemination Day *t,* the index value is calculated as follows:

$$IV_t = \frac{P_{1,t} \cdot FX_{1,t} \cdot normalizer_1}{P_{2,t} \cdot FX_{2,t} \cdot normalizer_2} \cdot 100$$

$$P_X(t) = \begin{cases} P_{X,0} & \text{if t is base date} \\ P_{X,t-1} \cdot e^{R_{X,t}} & \text{otherwise} \end{cases}$$

$$P_{X,0} = \frac{1}{5} \sum_{k=0}^{4} p_{X,T_{base}-k}$$

$$R_{X,t} = \frac{1}{5} \sum_{k=0}^{4} \ln\left(\frac{p_{X,t-k}}{p^a_{X,t-k-1}}\right)$$

76.iSTOXX SPREAD RATIO INDICES

$$normalizer_X = \begin{cases} \frac{1}{DR\ Ratio_X} & \text{if leg X is an ADR} \\ 1 & \text{otherwise}^{86} \end{cases}$$

where:

$FX_{X,t}$	= exchange rate from the local currency of leg *X* to EUR on Dissemination Day *t*
$DR\ Ratio_X$	= ADR multiplier of leg *X* at history inception date
T_{base}	= base date (chosen such that no corporate action occurs in the preceding 5 Dissemination Days)
$p_{X,t}$	= unadjusted local close price of leg *X* on Dissemination Day *t*
$p^a_{X,t-1}$	= adjusted local close price of leg *X* on the Dissemination Day *t-1*

The 1-day versions are calculated using the same formulas as above with the 5-day averaging omitted.

76.1.3. ONGOING MAINTENANCE

Corporate Actions: Prices are adjusted for corporate actions according to STOXX' treatment for Price indices as outlined in the STOXX Calculation Guide available on stoxx.com.

Mergers and takeovers: If any of the legs ceases to trade due to mergers and acquisitions the last index value is repeated indefinitely.

Deletion: If one leg of an index is deleted (due to illiquidity, bankruptcy, delisting, change of listing), then the last index value is repeated indefinitely.

List of pairs:

Name	Symbol	Company	Relation	Leg 1 (STOXX ID)	Leg 2 (STOXX ID)	Normalizer Leg 1/Leg 2
iSTOXX Spread Ratio ATCO B/A	IXRATCBA	Atlas Copco	Class B / Class A	405098	405097	1/1
iSTOXX Spread Ratio BHP AU/LN	IXRBHPAL	BHP	Australia / UK	614469	005666	1/1
iSTOXX Spread Ratio BMW COM/PRE	IXRBMWCP	BMW	Common / Preference	408522	EG2	1/1
iSTOXX Spread Ratio BMW PRE/COM	IXRBMWPC	BMW	Preference / Common	EG2	408522	1/1
iSTOXX Spread Ratio BZU COM/SAV	IXRBZUCS	Buzzi Unicem	Common / Savings	491039	IT902M	1/1
iSTOXX Spread Ratio BZU SAV/COM	IXRBZUSC	Buzzi Unicem	Savings / Common	IT902M	491039	1/1
iSTOXX Spread Ratio CCL US/LN	IXRCCLUL	Carnival Cruise Line	USA / UK	CCL	096359	1/1
iSTOXX Spread Ratio EPI A/B	IXREPIAB	Epiroc	Class A / Class B	SE80GU	SE80FT	1/1
iSTOXX Spread Ratio EPI B/A	IXREPIBA	Epiroc	Class B / Class A	SE80FT	SE80GU	1/1
iSTOXX Spread Ratio GRF DR/LOC	IXRGRFDL	Grifols	ADR / Local	ES905K	B01SPF	1/1
iSTOXX Spread Ratio GRF COM/PRE	IXRGRFCP	Grifols	Common / Preference	B01SPF	ES2019	1/1

[86] In addition to depositary receipts, a normalizer may be introduced for pairs where the share prices of both legs significantly differ for other reasons (for example due to a different par value).

76.iSTOXX SPREAD RATIO INDICES

iSTOXX Spread Ratio GRF PRE/COM	IXRGRFPC	Grifols	Preference / Common	ES2019	B01SPF	1/1
iSTOXX Spread Ratio HEI HO/NV	IXRHEIHN	Heineken	Holding / NV	441920	441930	1/1
iSTOXX Spread Ratio HEI NV/HO	IXRHEINH	Heineken	NV / Holding	441930	441920	1/1
iSTOXX Spread Ratio HEN COM/PRE	IXRHENCP	Henkel	Common / Preference	EG4	442031	1/1
iSTOXX Spread Ratio INDU A/C	IXRINDAC	Industrivärden	Class A / Class C	546344	546346	1/1
iSTOXX Spread Ratio INDU C/A	IXRINDCA	Industrivärden	Class C / Class A	546346	546344	1/1
iSTOXX Spread Ratio INVE A/B	IXRINVAB	Investor AB	Class A / Class B	446628	446963	1/1
iSTOXX Spread Ratio LBTY A/C	IXRLBTAC	Liberty Global	Class A / Class C	LBTYA	LBTYK	1/1
iSTOXX Spread Ratio LIS PC/REG	IXRLISPR	Lindt & Sprüngli	Participation / Registered	596228	596230	10/1
iSTOXX Spread Ratio LIS REG/PC	IXRLISRP	Lindt & Sprüngli	Registered / Participation	596230	596228	1/10
iSTOXX Spread Ratio MAERSK A/B	IXRMAEAB	Maersk	Class A / Class B	425305	425304	1/1
iSTOXX Spread Ratio NWS A/B	IXRNWSAB	News Corporation	Class A / Class B	US30TI	US30UJ	1/1
iSTOXX Spread Ratio RIO LN/AU	IXRRIOLA	Rio Tinto	UK / Australia	071887	622010	1/1
iSTOXX Spread Ratio RO BR/PC	IXRROBP	Roche	Bearer / Participation	474574	474577	1/1
iSTOXX Spread Ratio RDS A-NL/B-LN	IXRRDSAB	Royal Dutch Shell	Class A / Class B	B09CBL	080341	1/1
iSTOXX Spread Ratio RYA LOC/DR	IXRRYALD	Ryanair	Local / ADR	011517	IE9016	1/0.2
iSTOXX Spread Ratio SCH A/B	IXRSCHAB	Schibsted	Class A / Class B	478362	NO503J	1/1
iSTOXX Spread Ratio SCH B/A	IXRSCHBA	Schibsted	Class B / Class A	NO503J	478362	1/1
iSTOXX Spread Ratio SCH PC/REG	IXRSCHPR	Schindler	Participation / Registered	733750	477884	1/1
iSTOXX Spread Ratio SCH REG/PC	IXRSCHRP	Schindler	Registered / Participation	477884	733750	1/1
iSTOXX Spread Ratio SIX COM/PRE	IXRSIXCP	Sixt	Common / Preference	DE80BA	DE90AA	1/1
iSTOXX Spread Ratio SIX PRE/COM	IXRSIXPC	Sixt	Preference / Common	DE90AA	DE80BA	1/1
iSTOXX Spread Ratio SSAB B/A	IXRSSABA	SSAB	Class B / Class A	B17H3F	478593	1/1
iSTOXX Spread Ratio UHR BR/REG	IXRUHRBR	Swatch	Bearer / Registered	476240	476634	1/5
iSTOXX Spread Ratio UHR REG/BR	IXRUHRRB	Swatch	Registered / Bearer	476634	476240	5/1
iSTOXX Spread Ratio SWI A/B	IXRSWIAB	Swire	Class A / Class B	686774	686776	1/5
iSTOXX Spread Ratio TIT COM/SAV	IXRTITCS	Telecom Italia	Common / Savings	465940	484651	1/1
iSTOXX Spread Ratio TIT SAV/COM	IXRTITSC	Telecom Italia	Savings / Common	484651	465940	1/1
iSTOXX Spread Ratio ULVR LN/NL	IXRULVLN	Unilever	UK / Netherlands	091321	491207	1/1
iSTOXX Spread Ratio VOW COM/PRE	IXRVOWCP	Volkswagen	Common / Preference	493030	EG7	1/1
iSTOXX Spread Ratio VOW PRE/COM	IXRVOWPC	Volkswagen	Preference / Common	EG7	493030	1/1
iSTOXX Spread Ratio VOLV B/A	IXRVOLBA	Volvo	Class B / Class A	493117	493116	1/1

77. iSTOXX ITALY SMALL AND MID CAP INDEX

77.1. iSTOXX ITALY SMALL AND MID CAP INDEX

77.1.1. OVERVIEW

The index is designed to represent small and mid-sized capitalization companies in Italy. This is achieved by selecting the constituents of the STOXX Italy Total Market that do not qualify for the STOXX Italy 45 index

The iSTOXX Italy Small and Mid Cap Index represents mid and small capitalisation companies with a variable number of components across Italy.

Universe: The index universe is defined by the parent index the STOXX Italy Total Market, as observed on the review effective date defines the index universe

Weighting scheme: The indices are weighted according to Free Float Market Capitalization with a capping factor of 5%.

Base values and dates: 1000 on Dec 24, 2012

Index types and currencies: Price, net return, gross return in EUR

Dissemination calendar: STOXX Europe calendar.

77.1.2. INDEX REVIEW

Composition list: The index composition is created by excluding from the parent index STOXX Italy Total Market the constituents of the STOXX Italy 45 on the review date.

Review frequency: The reviews are conducted on a quarterly basis together with the parent indices the STOXX Italy Total Market and the STOXX Italy 45. The respective review cut-off date is specified in the sections 6.1.2 and 7.1.2 of the STOXX Index Methodology Guide.

Weighting cap factors: The cap factor limits the maximum weighting for a stock to 5% at the time of the review. Weighting cap factors are updated during the regular quarterly index reviews.

77.1.3. ONGOING MAINTENANCE

Replacements: The handling of replacements is specified in the sections 6.1.3 and 7.1.3 of the STOXX Index Methodology Guide.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: The handling of spin-offs is specified in the sections 6.1.3 and 7.1.3 of the STOXX Index Methodology Guide.

78. iSTOXX MEGATRENDS SELECT INDICES

78.1. iSTOXX GLOBAL MEGATRENDS SELECT 50 INDEX

78.1.1. OVERVIEW

The iSTOXX Global Megatrends Select 50 Index tracks companies that are exposed to a defined set of demographic and technological megatrends that are expected to change the world as we know it. Final index screens select stocks with the lowest volatilities and highest dividend yields.

The index constituents are linked to one or more of the following themes: Infrastructure, Sharing Economy, Industry 4.0, Smart Cities, Housing Construction, Next Generation Telecoms, Millennials, Fintech, Silver Economy. These companies or components of their business lines are positioned to benefit from long-term structural trends as their products and services are necessary to cater the needs of the growing populations and the citizens of the future and are expected to play a key part in addressing the challenges of rapid urbanization and growth consumerism globally. Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the respective themes.

Environmental, Social and Governance considerations are also taken into account in the selection process as the index excludes companies in breach of Global Standards Screening (GSS), and those involved with weapons, adult entertainment, gambling, oil & gas, thermal coal, nuclear power and tobacco. Global Standards Screening (GSS) identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

The final composition list is made up of the 50 companies from the pre-selected universe that have the lowest volatilities and highest dividend yields, observing caps in the representation of ICB sectors and countries to ensure diversification.

Universe: The index universe is defined by all stocks included in the STOXX Global Total Market index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

78.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical gross dividend yield

78. iSTOXX MEGATRENDS SELECT INDICES

ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco
v. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.
Information for field v) is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cut-off date is used. If this information is missing, then the company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding10million EUR
- **Revenues**: Revenue exposure equal to or exceeding 25%, from the aggregation of the RBICS sectors associated with "Megatrends" (please see table below).
- **Global Standards**: Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- **Controversial Weapons**: Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company
- **Product Involvement**: Not have any Product Involvement in the following areas[87]. STOXX will exclude companies that Sustainalytics identifies to have:

  Weapons:
  i) Small Arms:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers

[87] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

78. iSTOXX MEGATRENDS SELECT INDICES

»>10% revenues from manufacturing and selling small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials

Gambling:

»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:

»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:

»>0% revenues from shale energy exploration and/or production

Conventional Oil & Gas:

»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Thermal Coal:

»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)

78. iSTOXX MEGATRENDS SELECT INDICES

»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Nuclear Power:
»>0% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>5% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained.

List of RBICS sectors associated with "Megatrends" for the purposes of component selection:

Nr	Sector	Nr	Sector
1	3D Modeling/Rapid Prototyping Automation Providers	269	Latin America Mixed Fossil Fuel Whole Power
2	Access Systems Manufacturing	270	Latin America Mixed Traditional Wholesale Power
3	Activewear and Outerwear Apparel Production	271	Latin America Mixed Wholesale Power
4	Airport/Flight Support Infrastructure Operators	272	Latin America Natural Gas Pipeline and Storage
5	Alarm Systems Manufacturing	273	Latin America Natural Gas Wholesale Power
6	Alt. Energy Autonomous Heavy Duty Truck Makers	274	Latin America Petroleum Storage and Transport
7	Alt. Energy Autonomous Transit Vehicle Production	275	Latin America Propane and LPG Marketing and Dist.
8	Alt. Energy Motor Homes and Campers (RVs) Makers	276	Latin America Solar Wholesale Power
9	Alt. Energy Recreation Vehicle Manufacturing	277	Latin America Wind Wholesale Power

78.iSTOXX MEGATRENDS SELECT INDICES

10	Alternative Energy Boats Makers
11	Alternative Energy Car Manufacturers
12	Alternative Energy Heavy Duty Trucks Makers
13	Alternative Energy Infrastructure Construction
14	Alternative Energy Motorcycles Makers
15	Alternative Energy Transit Vehicles Makers
16	Alternative Exchanges and ECNs
17	Ambulatory and Outpatient Care
18	Americas Natural Gas Utilities
19	Americas Water Utilities
20	Anesthesiology Devices
21	Application Management Consulting
22	Asia (Excluding China) Wireless Services
23	Asia (Excluding China) Wireline Services
24	Asia/Pacific CNG and LNG Distributors
25	Asia/Pacific Crude Oil Liquid Pipeline/Storage
26	Asia/Pacific Electric Power Utilities
27	Asia/Pacific Natural Gas Pipeline and Storage
28	Asia/Pacific Natural Gas Utilities
29	Asia/Pacific Petroleum Storage and Transport
30	Asia/Pacific Propane and LPG Marketing and Dist.
31	Asia/Pacific Rail Transportation
32	Asia/Pacific Water Utilities
33	Assisted Living
34	Athletic Footwear Production
35	Audio Multimedia Semiconductors
36	Australia and New Zealand Wireless Services
37	Australia and New Zealand Wireline Services
38	Automated Teller Machines (ATMs)
39	Automated Teller Machines (ATMs) Hardware Makers
40	Automotive Industry Software
41	Autonomous Drone Manufacturers
42	Autonomous Drone Parts Manufacturers
43	Autonomous Vehicles Semiconductors
44	Biodiesel Fuel Manufacturing
45	Blockchain Technology
46	Budget Hotels and Motels
47	Building Construction
48	Building Maintenance and Engineering Services
49	Burial Casket Manufacturing
278	Lime and Gypsum Products Manufacturing
279	Locks and Deadbolts Manufacturing
280	Lower Respiratory Biopharmaceuticals
281	Luxury Hotels and Resorts
282	Machine Vision and Quality Control Manufacturing
283	Manufactured Building Makers
284	Manufacturing Industry Software
285	Mapping/Geographic Information Systems Software
286	Market Makers and Specialists
287	Media Download and Streaming Digital Content Sites
288	Microprocessor (MPU) Semiconductors
289	Middle East and Africa Biomass Wholesale Power
290	Middle East and Africa CNG and LNG Distributors
291	Middle East and Africa Geothermal Wholesale Power
292	Middle East and Africa Mixed Alt. Wholesale Power
293	Middle East and Africa Mixed Trad. Wholesale Power
294	Middle East and Africa Mixed Wholesale Power
295	Middle East and Africa Natural Gas Wholesale Power
296	Middle East and Africa Solar Wholesale Power
297	Middle East and Africa Wind Wholesale Power
298	Middle East and Africa Wireless Services
299	Middle East and Africa Wireline Services
300	Middle East/Africa Crude Oil Liq. Pipeline/Storage
301	Middle East/Africa Decentralized Wholesale Power
302	Middle East/Africa Hydroelectric Wholesale Power
303	Middle East/Africa Nat. Gas Pipeline and Storage
304	Middle East/Africa Petroleum Storage and Transport
305	Middle East/Africa Propane and LPG Mktg. and Dist.
306	Mideast/Africa Mixed Fossil Fuel Wholesale Power
307	Minimills Manufacturing Flats
308	Mining and Excavation Equipment Manufacturing
309	Mixed Apparel and Footwear Production
310	Mixed Architecture/Infrastructure Component Makers
311	Mixed Building/Physical Security Equipment Makers
312	Mixed Electronic Transaction Processing
313	Mixed Heavy Building Materials/Aggregates Makers
314	Mixed International Telecommunications Services
315	Mixed Renewable Energy Generation Manufacturing
316	Mixed Specialty and Commodity Chemical Makers
317	Mixed Usage Travel Arrangement and Reservation

78.iSTOXX MEGATRENDS SELECT INDICES

50	Bus Transportation	318	Mixed-Type Hotels, Motels and Resorts
51	Business Intelligence Software	319	Mobile Platform Applications Software
52	Business Intelligence/Data Warehousing Consulting	320	Money Transfer Services
53	Cabinets and Countertops Manufacturing	321	Monitoring and Control Sensor/Instrument Products
54	Cable Interconnect Components	322	Multi-Industry-Specific Factory Machinery Makers
55	Canada Biomass Wholesale Power	323	Multinational Electric Power Utilities
56	Canada Decentralized Wholesale Power	324	Multinational Transmission, Dist., and Storage
57	Canada Geothermal Wholesale Power	325	Multi-National Water Utilities
58	Canada Hydroelectric Wholesale Power	326	Multinational Wholesale Power
59	Canada Mixed Alternative Wholesale Power	327	Multi-Product Adhesive, Sealant and Paint Makers
60	Canada Mixed Fossil Fuel Wholesale Power	328	Multi-Tactic Enterprise Solutions Consulting
61	Canada Mixed Traditional Fuel Whole Power	329	Multi-Type Equity REITs
62	Canada Mixed Wholesale Power	330	Multi-Type Financial Data Content Providers/Sites
63	Canada Natural Gas Pipeline and Storage	331	Multi-Type Passenger Transportation
64	Canada Natural Gas Wholesale Power	332	Multi-Type United States Wireless Services
65	Canada Solar Wholesale Power	333	Multi-Type United States Wireline Services
66	Canada Wind Wholesale Power	334	Musculoskeletal System Biopharmaceuticals
67	Canada Wireline Services	335	Natural Gas Infrastructure Construction
68	Cardiology Medical Devices	336	Network Administration Software
69	Cardiology Surgical Devices	337	Network Design and Implementation Consulting
70	Cardiovascular System Biopharmaceuticals	338	Network Security Software
71	Career Classifieds and Directories Media and Sites	339	Networking Semiconductors
72	Carrier Core (Backbone) Equipment	340	Neurology Biopharmaceuticals
73	Carrier Edge Network Management Equipment	341	Neurology Devices
74	Casinos and Casino Hotels	342	Nutraceuticals
75	Cellular Site Equipment	343	Nutritional Supplement OEMs
76	Cement Manufacturing	344	Ocean-Going Cruise Lines
77	Central and Eastern Europe Wireless Services	345	Off-Price Retail Stores
78	Central and Eastern Europe Wireline Services	346	Oncology Devices
79	Central and South America Wireless Services	347	Online Game Websites and Software
80	Central and South America Wireline Services	348	Operating Systems Software
81	China Biomass Wholesale Power	349	Operation and Maintenance Services
82	China Decentralized Wholesale Power	350	Ophthalmology Biopharmaceuticals
83	China Geothermal Wholesale Power	351	Ophthalmology Devices
84	China Hydroelectric Wholesale Power	352	Optoelectronics Electronic Components
85	China Mixed Alternative Wholesale Power	353	Oriented Strand Board (OSB) Manufacturing
86	China Mixed Fossil Fuel Wholesale Power	354	Other Americas Electric Power Utilities
87	China Mixed Traditional Fuel Wholesale Power	355	Other Americas Railroad Transportation
88	China Mixed Wholesale Power	356	Other Asia/Pac Mixed Fossil Fuel Wholesale Power
89	China Natural Gas Wholesale Power	357	Other Asia/Pacific Biomass Wholesale Power

78.iSTOXX MEGATRENDS SELECT INDICES

90	China Solar Wholesale Power
91	China Wind Wholesale Power
92	China Wireless Services
93	China Wireline Services
94	City Guides Content Providers and Sites
95	Closed Circuit Television (CCTV) Systems/Products
96	CNG and LNG Distributors
97	Colocation and Data Center Services
98	Commercial Bank and Credit Union Software
99	Commodities Trading Services
100	Communication and Collaboration Content Sites
101	Computer Aided Design (CAD) Software
102	Concrete Blocks, Bricks and Aggregates Makers
103	Console Games Software
104	Construction and Mining Machinery Distributors
105	Consumer Electronics and Appliance Rental
106	Conventional Autonomous Transit Vehicles Makers
107	Conventional Engine Autonomous Truck Makers
108	Correctional Institutions
109	Credit and Information Bureaus
110	Crude Oil Liquid Pipeline and Storage
111	Cryptocurrency Mining
112	Cryptocurrency Trading and Exchanges
113	Cryptomining Semiconductors
114	Customer Premises Network Security Equipment
115	Data Storage Infrastructure Software
116	Data Transport Carrier Services
117	Decorative Component Manufacturing
118	Dental Devices
119	Dietary and Naturopathic Supplements
120	Disk Storage Systems
121	Diverse Asset Management and Financial Advisors
122	Diverse Business Process Outsourcing Services
123	Diverse Construction and Engineering Services
124	Diverse Institutional/High-Net Advisory Finance
125	Diversified Brokerage Services
126	Diversified Electrical/Power System Manufacturing
127	Diversified Enterprise Resource Planning Software
128	Diversified General Waste Collection
129	Diversified Hazardous Materials Disposal
358	Other Asia/Pacific Decentralized Wholesale Power
359	Other Asia/Pacific Geothermal Wholesale Power
360	Other Asia/Pacific Hydroelectric Wholesale Power
361	Other Asia/Pacific Mixed Alt. Wholesale Power
362	Other Asia/Pacific Mixed Trad. Wholesale Power
363	Other Asia/Pacific Mixed Wholesale Power
364	Other Asia/Pacific Natural Gas Wholesale Power
365	Other Asia/Pacific Solar Wholesale Power
366	Other Asia/Pacific Wind Wholesale Power
367	Other Automation Support Product Manufacturing
368	Other Automotive Equipment Rental
369	Other Building Materials and Garden Supply Stores
370	Other Carrier Services
371	Other Classifieds and Directories Media and Sites
372	Other Communications Semiconductors
373	Other Construction Wood Products Makers
374	Other Design and Engineering Software
375	Other Finance Industry Software
376	Other Games Software
377	Other Hospitals
378	Other Interconnect Components
379	Other International Energy Utilities
380	Other Leasing Services
381	Other Local Area Networking Equipment
382	Other Long-Term Care Facilities
383	Other Memory Semiconductors
384	Other Metal Processing and Recycling Providers
385	Other Network Software
386	Other Nonvolatile Memory Semiconductors
387	Other Oncology Biopharmaceuticals
388	Other Optoelectronics Discrete Semiconductors
389	Other Orthopedics Devices
390	Other Pipeline and Energy Storage Services
391	Other Post-Secondary Education
392	Other Processor Semiconductors
393	Other Sporting and Athletic Goods
394	Other Test and Measurement Equipment
395	Other United States Electric Utilities
396	Other United States Energy Utilities
397	Other Waste Services

78.iSTOXX MEGATRENDS SELECT INDICES

130	Diversified Healthcare Business Management
131	Diversified Patient Care
132	Diversified Semiconductor Manufacturing Services
133	Diversified Technology Hardware
134	Ear, Nose and Throat (ENT) Devices
135	Education Information and News Media and Sites
136	Educational Support Services
137	Electric Vehicle Charging Stations
138	Electrical Systems and Equipment Manufacturing
139	Electricity Infrastructure Construction
140	Electronic Gaming/Entertainment Electronics Makers
141	Electronic Interconnect Components
142	Electronic Payment Processing
143	Electronic Security Identification Equipment
144	Electronic System Security Equipment
145	Electronic Waste Services
146	Emission Control Services and Technologies
147	Energy Efficient Lighting and LED Manufacturing
148	Energy Plant Infrastructure Construction
149	Enterprise Middleware Software
150	Enterprise Security Management Software
151	Environmental Consulting
152	Environmental Services
153	Europe Biomass Wholesale Power
154	Europe CNG and LNG Distributors
155	Europe Crude Oil Liquid Pipeline/Storage
156	Europe Decentralized Wholesale Power
157	Europe Geothermal Wholesale Power
158	Europe Hydroelectric Wholesale Power
159	Europe Mixed Alternative Wholesale Power
160	Europe Mixed Fossil Fuel Whole Power
161	Europe Mixed Traditional Fuel Wholesale Power
162	Europe Mixed Wholesale Power
163	Europe Natural Gas Pipeline and Storage
164	Europe Natural Gas Utilities
165	Europe Natural Gas Wholesale Power
166	Europe Petroleum Storage and Transport
167	Europe Propane and LPG Marketing and Dist.
168	Europe Solar Wholesale Power
169	Europe Wind Wholesale Power
398	Other Water Transportation
399	Other Wide Area Networking (WAN) Equipment
400	Other Wireless Equipment
401	Paints Manufacturing
402	Pan-America Wireless Services
403	Pan-Americas Mixed Wholesale Power
404	Pan-Asia/Pacific Wholesale Power
405	Parking Facility Services
406	Passenger Car Rental
407	Passenger Rail Transportation
408	Payment Processing Software
409	Pension Fund Managers
410	Performing Arts and Exhibitions
411	Peripheral Semiconductors
412	Petroleum Liquid Pipeline and Storage
413	Petroleum Storage and Transportation
414	Pharmacies and Drug Stores
415	Photovoltaic and Solar Cells and Systems Providers
416	Pipes and Pipe Fittings Manufacturing
417	Plastic and Reconstructive Surgery Devices
418	Plumbing Fixtures and Trim Manufacturing
419	Point of Care Testing Kits
420	Point-of-Sale (POS) Terminal Manufacturing
421	Power Generation Infrastructure Construction
422	Power, Control and Mixed Signal Semiconductors
423	Primary Patient Care
424	Private Wealth Managers
425	Process Plants, Utilities and Energy Construction
426	Programmable Logic Device Semiconductors
427	Propane and LPG Marketing and Distribution
428	Public Infrastructure Components Manufacturing
429	Radio Broadcasting
430	Ready-Mix Concrete Makers
431	Real Estate Classifieds and Directories Sites
432	Recycling Services
433	Residential Specialty Engineering Contractors
434	Retail Advisory Services
435	Retail Brokerage Services
436	Retail Industry Software
437	RF Analog and Mixed Signal Semiconductors

78.iSTOXX MEGATRENDS SELECT INDICES

170	Europe, Middle East and Africa Electric Utilities
171	Europe, Middle East and Africa Rail Transportation
172	Europe, Middle East and Africa Water Utilities
173	Events, Tickets and Mixed-Type Recreation
174	Express Couriers
175	Finance and Banking Systems Production
176	Finance Information and News Media and Sites
177	Financial and Compliance ERP Software
178	Fitness and Exercise Equipment
179	Fitness and Recreational Sports Centers
180	Fixed Microwave Systems Equipment
181	Flash Memory Semiconductors
182	Flooring Manufacturing
183	Food Delivery Services
184	Fuel Cell Equipment and Technology Providers
185	Full Service Hotels and Resorts
186	Funeral and Cemetery Services
187	Garbage Services
188	General Analog and Mixed Signal Semiconductors
189	General and Acute Hospitals
190	General Architectural Component Manufacturing
191	General Building Materials Distribution
192	General Carrier Edge (Access) Equipment
193	General Coatings and Paints Makers
194	General Communications Equipment
195	General Construction Materials Manufacturing
196	General Customer Premises Equipment (CPE)
197	General Death Care Services
198	General Delivery and Logistics Providers
199	General Enterprise Management Software
200	General Entertainment Content Providers and Sites
201	General Factory Automation Makers
202	General Information Technology (IT) Consulting
203	General Infrastructure and Network Consulting
204	General Security Services
205	General United States Telecommunications Services
206	Geothermal Energy Equipment Manufacturing
207	Global Energy Utilities
208	Grocery Delivery Services
209	Handheld and Smart Phone Games Software
438	RFID Asset Tracking Equipment Manufacturing
439	Securities Exchanges
440	Security and Management Consulting
441	Server Computer Systems
442	Sewage and Water Infrastructure Construction
443	Shipping Infrastructure and Services (Ports)
444	Skilled Nursing Facility (Nursing Home)
445	Smart Grid Technology and Smart Meter Products
446	Smart Phone Manufacturing
447	Software Design and Engineering Consulting
448	Soil Remediation
449	Solid Waste Recycling Equipment Manufacturing
450	Specialized Patient Care
451	Specialty Analog and Mixed Signal Semiconductors
452	Sporting Goods Stores
453	Structural Support Component Manufacturing
454	Student and Specialty Housing Equity REITs
455	Supply Chain ERP Software
456	Team, Individual and Other Sports Manufacturing
457	Telecommunications Construction
458	Telecommunications Customer Relationship Software
459	Telemedicine
460	Test and Measurement Communications Equipment
461	Toll Road Operators
462	Tools and Outdoor Care Building Hand Tool Products
463	Tour Operators
464	Trade Execution Services
465	Trading Software
466	Traditional Energy Infrastructure Construction
467	Transportation Construction
468	Travel Agencies
469	Travel Publishers
470	Truck, Trailer and Recreational Vehicle Rental
471	Type 1 Diabetes Biopharmaceuticals
472	United States Biomass Wholesale Power
473	United States Class I Railroad Transportation
474	United States Decentralized Wholesale Power
475	United States Geothermal Wholesale Power
476	United States Hydroelectric Wholesale Power
477	United States Midwest Electric Utilities

78.iSTOXX MEGATRENDS SELECT INDICES

210	Hardware, Plumbing and HVAC Supplies
211	Hazardous/Industrial Waste Disposal
212	Healthcare and Life Sciences Equity REITs
213	Healthcare Consulting
214	Healthcare General Support Services
215	Healthcare Management Software
216	Healthcare Operations Support Software
217	Heating, Ventilation and Air Conditioning Products
218	Hematological Oncology Biopharmaceuticals
219	Home Builders
220	Home Builders and Manufactured Buildings
221	Home Healthcare
222	Home Testing Clinical Diagnostics Devices
223	Household Robot Makers
224	Hydroelectric Power Generation Equipment Providers
225	Hydrogen Fuel Manufacturing
226	IC-Level Electronic Design Software
227	IC-Level Intellectual Property Software Libraries
228	Image Sensor and Image Capture Semiconductors
229	Industrial and Engineering Hand Tool Manufacturing
230	Industrial and Warehouse Equity REITs
231	Industrial Equipment Leasing Services
232	Industrial Robots and Robotic Assembly Line Makers
233	Information Storage Systems
234	Institutional Brokerage Services
235	Institutional Financial and Research Content Sites
236	Insulation Manufacturing
237	Insurance Software
238	Integrated Steel Mills Mixed Production Makers
239	Interior/Exterior Covering Materials Distribution
240	International Electricity Generator Utilities
241	International Fixed Satellite Services
242	International Mobile Satellite Services
243	International Natural Gas Pipeline and Storage
244	International Natural Gas Utilities
245	Internet Accessories Retail
246	Internet Apparel Retail
247	Internet Department Stores
248	Internet Discount Stores
249	Internet Electronics Retail
478	United States Midwest Natural Gas Utilities
479	United States Mixed Alternative Wholesale Power
480	United States Natural Gas Utilities
481	United States Northeast Electric Utilities
482	United States Northeast Natural Gas Utilities
483	United States Satellite Services
484	United States Short-Line Railroad Transportation
485	United States Solar Wholesale Power
486	United States South Atlantic Electric Utilities
487	United States South Electric Utilities
488	United States South Natural Gas Utilities
489	United States Transmission, Dist., and Storage
490	United States Video and Television Services
491	United States Water Utilities
492	United States West Electric Utilities
493	United States West Natural Gas Utilities
494	United States Wind Wholesale Power
495	United States Wireless Business Data Services
496	United States Wireline Business Data Services
497	United States Wireline Data Services
498	Urology Biopharmaceuticals
499	Urology Devices
500	US and Canada CNG and LNG Distributors
501	US and Canada Crude Oil Liquid Pipeline/Storage
502	US and Canada Natural Gas Pipeline and Storage
503	US and Canada Petroleum Storage and Transport
504	US and Canada Propane and LPG Mktg. and Dist.
505	US Mixed Fossil Fuel Wholesale Power
506	US Mixed Traditional Fuel Wholesale Power
507	US Mixed Wholesale Power
508	US Natural Gas Pipeline and Storage
509	US Natural Gas Wholesale Power
510	US Voice Over IP Telephony (VoIP) Services
511	US West South Central Electric Utilities
512	Utility Infrastructure Construction
513	Utility Meter Manufacturing
514	Vacation Ownership Operators
515	Vehicle Autonomous Control Electronics Makers
516	Vehicle Autonomous Control Software
517	Virtual Reality Design and Engineering Software

78. iSTOXX MEGATRENDS SELECT INDICES

250	Internet Entertainment Retail	518	Virtual Reality Equipment
251	Internet Footwear Retail	519	Volatile Memory Semiconductors
252	Internet Off-Price Retail	520	Waste-to-Energy Services
253	Internet Pharmacies and Drug Retail	521	Wastewater Residual Management
254	Internet Warehouse / Superstore Retail	522	Wastewater Treatment Services
255	Investment Management/Brokerage Software	523	Water Transportation (Ferry Service)
256	Issuance and Securitization Services	524	Wave Energy Equipment Manufacturing
257	Joint Replacement and Reconstruction Devices	525	Wearable Technology
258	Land Equity REITs	526	Web Search Sites and Software
259	Landfill Services	527	Western Europe Wireless Services
260	Lasers and Optical Instrument Manufacturing	528	Western Europe Wireline Services
261	Latin America Biomass Wholesale Power	529	Wind Energy Equipment Manufacturing
262	Latin America CNG and LNG Distributors	530	Windows and Doors Manufacturing
263	Latin America Crude Oil Liquid Pipeline/Storage	531	Winter Sports
264	Latin America Decentralized Wholesale Power	532	Wireless and Wi-Fi Equipment
265	Latin America Electric Power Utilities	533	Wireless Infrastructure Services
266	Latin America Geothermal Wholesale Power	534	Wireline Equipment
267	Latin America Hydroelectric Wholesale Power	535	Wireline Infrastructure Services
268	Latin America Mixed Alternative Wholesale Power		

Composition list: The final composition list with the 50 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).
2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 50 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Country
   For each country i, a maximum number of components K is calculated as follows and rounded to the nearest integer, such that diversification is ensured and the country profile of the iSTOXX Global Megatrends Select 50 Index does not deviate much from the corresponding weights of the STOXX Global 3000 Index. Moreover, for countries, that are represented in the STOXX Global 3000 Index, with a weight exceeding 20%, a minimum number of components L is also calculated in a similar fashion:

$$\mathrm{K_i} = (\mathrm{SXGBM_i} + 10\%) * \mathrm{N}$$

$$\mathrm{L_i} = (\mathrm{SXGBM_i} - 10\%) * \mathrm{N}$$

78. iSTOXX MEGATRENDS SELECT INDICES

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Megatrends Select 50 Index

L_i minimum number of components from country i, to be included in the iSTOXX Global Megatrends Select 50 Index

$SXGBM_i$ weight of the components coming from country i, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Megatrends Select 50 Index (50)

b. Industry

Effective up until September 2020 review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, 11 industrial groupings are defined, based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

For each industry j of the 11 industrial groupings above, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$D_j = (SXGBM_j + 10\%) * N$$

78. iSTOXX MEGATRENDS SELECT INDICES

where:

D_j maximum number of components from industry j, allowed for inclusion in the iSTOXX Global Megatrends Select 50 Index

$SXGBM_j$ weight of the components coming from country j, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Megatrends Select 50 Index (50)

If the composition list cannot be completed with 50 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($Z = Z + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 50 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

78.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards

78. iSTOXX MEGATRENDS SELECT INDICES

Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

78. iSTOXX MEGATRENDS SELECT INDICES

78.2. EURO iSTOXX MEGATRENDS SELECT 30 INDEX

78.2.1. OVERVIEW

The EURO iSTOXX Megatrends Select 30 Index tracks companies that are exposed to a defined set of demographic and technological megatrends that are expected to change the world as we know it. Final index screens select stocks with the lowest volatilities and highest dividend yields.

The index constituents are linked to one or more of the following themes: Infrastructure, Sharing Economy, Industry 4.0, Smart Cities, Housing Construction, Next Generation Telecoms, Millennials, Fintech, Silver Economy. These companies or components of their business lines are positioned to benefit from long-term structural trends as their products and services are necessary to cater the needs of the growing populations and the citizens of the future and are expected to play a key part in addressing the challenges of rapid urbanization and growth consumerism globally. Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the respective themes.

The index excludes companies that Sustainalytics considers to be non compliant with the Global Standards Screening and/or involved in controversial weapons.

The final composition list is made up of the 30 companies from the pre-selected universe that have the lowest volatilities and highest dividend yields, observing caps in the representation of ICB sectors and countries to ensure diversification.

Universe: The index universe is defined by all stocks included in the EURO STOXX Total Market index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

78.2.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

78. iSTOXX MEGATRENDS SELECT INDICES

If any of the fields ii) or iii) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.
Information for field iv) is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cut-off date is used. If this information is missing, then the company is excluded from the selection process.

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding10 million EUR
- **Revenues**: Revenue exposure equal to or exceeding 25%, from the aggregation of the RBICS sectors associated with "Megatrends" (please see table below).
- **Global Standards Screening**: compliant with the Global Standard Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- **Controversial Weapons:** Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained.

List of RBICS sectors associated with "Megatrends" for the purposes of component selection:

Nr	Sector	Nr	Sector
1	3D Modeling/Rapid Prototyping Automation Providers	269	Latin America Mixed Fossil Fuel Whole Power
2	Access Systems Manufacturing	270	Latin America Mixed Traditional Wholesale Power
3	Activewear and Outerwear Apparel Production	271	Latin America Mixed Wholesale Power
4	Airport/Flight Support Infrastructure Operators	272	Latin America Natural Gas Pipeline and Storage
5	Alarm Systems Manufacturing	273	Latin America Natural Gas Wholesale Power
6	Alt. Energy Autonomous Heavy Duty Truck Makers	274	Latin America Petroleum Storage and Transport
7	Alt. Energy Autonomous Transit Vehicle Production	275	Latin America Propane and LPG Marketing and Dist.
8	Alt. Energy Motor Homes and Campers (RVs) Makers	276	Latin America Solar Wholesale Power
9	Alt. Energy Recreation Vehicle Manufacturing	277	Latin America Wind Wholesale Power
10	Alternative Energy Boats Makers	278	Lime and Gypsum Products Manufacturing
11	Alternative Energy Car Manufacturers	279	Locks and Deadbolts Manufacturing
12	Alternative Energy Heavy Duty Trucks Makers	280	Lower Respiratory Biopharmaceuticals

78.iSTOXX MEGATRENDS SELECT INDICES

13	Alternative Energy Infrastructure Construction
14	Alternative Energy Motorcycles Makers
15	Alternative Energy Transit Vehicles Makers
16	Alternative Exchanges and ECNs
17	Ambulatory and Outpatient Care
18	Americas Natural Gas Utilities
19	Americas Water Utilities
20	Anesthesiology Devices
21	Application Management Consulting
22	Asia (Excluding China) Wireless Services
23	Asia (Excluding China) Wireline Services
24	Asia/Pacific CNG and LNG Distributors
25	Asia/Pacific Crude Oil Liquid Pipeline/Storage
26	Asia/Pacific Electric Power Utilities
27	Asia/Pacific Natural Gas Pipeline and Storage
28	Asia/Pacific Natural Gas Utilities
29	Asia/Pacific Petroleum Storage and Transport
30	Asia/Pacific Propane and LPG Marketing and Dist.
31	Asia/Pacific Rail Transportation
32	Asia/Pacific Water Utilities
33	Assisted Living
34	Athletic Footwear Production
35	Audio Multimedia Semiconductors
36	Australia and New Zealand Wireless Services
37	Australia and New Zealand Wireline Services
38	Automated Teller Machines (ATMs)
39	Automated Teller Machines (ATMs) Hardware Makers
40	Automotive Industry Software
41	Autonomous Drone Manufacturers
42	Autonomous Drone Parts Manufacturers
43	Autonomous Vehicles Semiconductors
44	Biodiesel Fuel Manufacturing
45	Blockchain Technology
46	Budget Hotels and Motels
47	Building Construction
48	Building Maintenance and Engineering Services
49	Burial Casket Manufacturing
50	Bus Transportation
51	Business Intelligence Software
52	Business Intelligence/Data Warehousing Consulting
281	Luxury Hotels and Resorts
282	Machine Vision and Quality Control Manufacturing
283	Manufactured Building Makers
284	Manufacturing Industry Software
285	Mapping/Geographic Information Systems Software
286	Market Makers and Specialists
287	Media Download and Streaming Digital Content Sites
288	Microprocessor (MPU) Semiconductors
289	Middle East and Africa Biomass Wholesale Power
290	Middle East and Africa CNG and LNG Distributors
291	Middle East and Africa Geothermal Wholesale Power
292	Middle East and Africa Mixed Alt. Wholesale Power
293	Middle East and Africa Mixed Trad. Wholesale Power
294	Middle East and Africa Mixed Wholesale Power
295	Middle East and Africa Natural Gas Wholesale Power
296	Middle East and Africa Solar Wholesale Power
297	Middle East and Africa Wind Wholesale Power
298	Middle East and Africa Wireless Services
299	Middle East and Africa Wireline Services
300	Middle East/Africa Crude Oil Liq. Pipeline/Storage
301	Middle East/Africa Decentralized Wholesale Power
302	Middle East/Africa Hydroelectric Wholesale Power
303	Middle East/Africa Nat. Gas Pipeline and Storage
304	Middle East/Africa Petroleum Storage and Transport
305	Middle East/Africa Propane and LPG Mktg. and Dist.
306	Mideast/Africa Mixed Fossil Fuel Wholesale Power
307	Minimills Manufacturing Flats
308	Mining and Excavation Equipment Manufacturing
309	Mixed Apparel and Footwear Production
310	Mixed Architecture/Infrastructure Component Makers
311	Mixed Building/Physical Security Equipment Makers
312	Mixed Electronic Transaction Processing
313	Mixed Heavy Building Materials/Aggregates Makers
314	Mixed International Telecommunications Services
315	Mixed Renewable Energy Generation Manufacturing
316	Mixed Specialty and Commodity Chemical Makers
317	Mixed Usage Travel Arrangement and Reservation
318	Mixed-Type Hotels, Motels and Resorts
319	Mobile Platform Applications Software
320	Money Transfer Services

78.iSTOXX MEGATRENDS SELECT INDICES

53	Cabinets and Countertops Manufacturing
54	Cable Interconnect Components
55	Canada Biomass Wholesale Power
56	Canada Decentralized Wholesale Power
57	Canada Geothermal Wholesale Power
58	Canada Hydroelectric Wholesale Power
59	Canada Mixed Alternative Wholesale Power
60	Canada Mixed Fossil Fuel Wholesale Power
61	Canada Mixed Traditional Fuel Whole Power
62	Canada Mixed Wholesale Power
63	Canada Natural Gas Pipeline and Storage
64	Canada Natural Gas Wholesale Power
65	Canada Solar Wholesale Power
66	Canada Wind Wholesale Power
67	Canada Wireline Services
68	Cardiology Medical Devices
69	Cardiology Surgical Devices
70	Cardiovascular System Biopharmaceuticals
71	Career Classifieds and Directories Media and Sites
72	Carrier Core (Backbone) Equipment
73	Carrier Edge Network Management Equipment
74	Casinos and Casino Hotels
75	Cellular Site Equipment
76	Cement Manufacturing
77	Central and Eastern Europe Wireless Services
78	Central and Eastern Europe Wireline Services
79	Central and South America Wireless Services
80	Central and South America Wireline Services
81	China Biomass Wholesale Power
82	China Decentralized Wholesale Power
83	China Geothermal Wholesale Power
84	China Hydroelectric Wholesale Power
85	China Mixed Alternative Wholesale Power
86	China Mixed Fossil Fuel Wholesale Power
87	China Mixed Traditional Fuel Wholesale Power
88	China Mixed Wholesale Power
89	China Natural Gas Wholesale Power
90	China Solar Wholesale Power
91	China Wind Wholesale Power
92	China Wireless Services
321	Monitoring and Control Sensor/Instrument Products
322	Multi-Industry-Specific Factory Machinery Makers
323	Multinational Electric Power Utilities
324	Multinational Transmission, Dist., and Storage
325	Multi-National Water Utilities
326	Multinational Wholesale Power
327	Multi-Product Adhesive, Sealant and Paint Makers
328	Multi-Tactic Enterprise Solutions Consulting
329	Multi-Type Equity REITs
330	Multi-Type Financial Data Content Providers/Sites
331	Multi-Type Passenger Transportation
332	Multi-Type United States Wireless Services
333	Multi-Type United States Wireline Services
334	Musculoskeletal System Biopharmaceuticals
335	Natural Gas Infrastructure Construction
336	Network Administration Software
337	Network Design and Implementation Consulting
338	Network Security Software
339	Networking Semiconductors
340	Neurology Biopharmaceuticals
341	Neurology Devices
342	Nutraceuticals
343	Nutritional Supplement OEMs
344	Ocean-Going Cruise Lines
345	Off-Price Retail Stores
346	Oncology Devices
347	Online Game Websites and Software
348	Operating Systems Software
349	Operation and Maintenance Services
350	Ophthalmology Biopharmaceuticals
351	Ophthalmology Devices
352	Optoelectronics Electronic Components
353	Oriented Strand Board (OSB) Manufacturing
354	Other Americas Electric Power Utilities
355	Other Americas Railroad Transportation
356	Other Asia/Pac Mixed Fossil Fuel Wholesale Power
357	Other Asia/Pacific Biomass Wholesale Power
358	Other Asia/Pacific Decentralized Wholesale Power
359	Other Asia/Pacific Geothermal Wholesale Power
360	Other Asia/Pacific Hydroelectric Wholesale Power

78.iSTOXX MEGATRENDS SELECT INDICES

93	China Wireline Services
94	City Guides Content Providers and Sites
95	Closed Circuit Television (CCTV) Systems/Products
96	CNG and LNG Distributors
97	Colocation and Data Center Services
98	Commercial Bank and Credit Union Software
99	Commodities Trading Services
100	Communication and Collaboration Content Sites
101	Computer Aided Design (CAD) Software
102	Concrete Blocks, Bricks and Aggregates Makers
103	Console Games Software
104	Construction and Mining Machinery Distributors
105	Consumer Electronics and Appliance Rental
106	Conventional Autonomous Transit Vehicles Makers
107	Conventional Engine Autonomous Truck Makers
108	Correctional Institutions
109	Credit and Information Bureaus
110	Crude Oil Liquid Pipeline and Storage
111	Cryptocurrency Mining
112	Cryptocurrency Trading and Exchanges
113	Cryptomining Semiconductors
114	Customer Premises Network Security Equipment
115	Data Storage Infrastructure Software
116	Data Transport Carrier Services
117	Decorative Component Manufacturing
118	Dental Devices
119	Dietary and Naturopathic Supplements
120	Disk Storage Systems
121	Diverse Asset Management and Financial Advisors
122	Diverse Business Process Outsourcing Services
123	Diverse Construction and Engineering Services
124	Diverse Institutional/High-Net Advisory Finance
125	Diversified Brokerage Services
126	Diversified Electrical/Power System Manufacturing
127	Diversified Enterprise Resource Planning Software
128	Diversified General Waste Collection
129	Diversified Hazardous Materials Disposal
130	Diversified Healthcare Business Management
131	Diversified Patient Care
132	Diversified Semiconductor Manufacturing Services
361	Other Asia/Pacific Mixed Alt. Wholesale Power
362	Other Asia/Pacific Mixed Trad. Wholesale Power
363	Other Asia/Pacific Mixed Wholesale Power
364	Other Asia/Pacific Natural Gas Wholesale Power
365	Other Asia/Pacific Solar Wholesale Power
366	Other Asia/Pacific Wind Wholesale Power
367	Other Automation Support Product Manufacturing
368	Other Automotive Equipment Rental
369	Other Building Materials and Garden Supply Stores
370	Other Carrier Services
371	Other Classifieds and Directories Media and Sites
372	Other Communications Semiconductors
373	Other Construction Wood Products Makers
374	Other Design and Engineering Software
375	Other Finance Industry Software
376	Other Games Software
377	Other Hospitals
378	Other Interconnect Components
379	Other International Energy Utilities
380	Other Leasing Services
381	Other Local Area Networking Equipment
382	Other Long-Term Care Facilities
383	Other Memory Semiconductors
384	Other Metal Processing and Recycling Providers
385	Other Network Software
386	Other Nonvolatile Memory Semiconductors
387	Other Oncology Biopharmaceuticals
388	Other Optoelectronics Discrete Semiconductors
389	Other Orthopedics Devices
390	Other Pipeline and Energy Storage Services
391	Other Post-Secondary Education
392	Other Processor Semiconductors
393	Other Sporting and Athletic Goods
394	Other Test and Measurement Equipment
395	Other United States Electric Utilities
396	Other United States Energy Utilities
397	Other Waste Services
398	Other Water Transportation
399	Other Wide Area Networking (WAN) Equipment
400	Other Wireless Equipment

78.iSTOXX MEGATRENDS SELECT INDICES

133	Diversified Technology Hardware
134	Ear, Nose and Throat (ENT) Devices
135	Education Information and News Media and Sites
136	Educational Support Services
137	Electric Vehicle Charging Stations
138	Electrical Systems and Equipment Manufacturing
139	Electricity Infrastructure Construction
140	Electronic Gaming/Entertainment Electronics Makers
141	Electronic Interconnect Components
142	Electronic Payment Processing
143	Electronic Security Identification Equipment
144	Electronic System Security Equipment
145	Electronic Waste Services
146	Emission Control Services and Technologies
147	Energy Efficient Lighting and LED Manufacturing
148	Energy Plant Infrastructure Construction
149	Enterprise Middleware Software
150	Enterprise Security Management Software
151	Environmental Consulting
152	Environmental Services
153	Europe Biomass Wholesale Power
154	Europe CNG and LNG Distributors
155	Europe Crude Oil Liquid Pipeline/Storage
156	Europe Decentralized Wholesale Power
157	Europe Geothermal Wholesale Power
158	Europe Hydroelectric Wholesale Power
159	Europe Mixed Alternative Wholesale Power
160	Europe Mixed Fossil Fuel Whole Power
161	Europe Mixed Traditional Fuel Wholesale Power
162	Europe Mixed Wholesale Power
163	Europe Natural Gas Pipeline and Storage
164	Europe Natural Gas Utilities
165	Europe Natural Gas Wholesale Power
166	Europe Petroleum Storage and Transport
167	Europe Propane and LPG Marketing and Dist.
168	Europe Solar Wholesale Power
169	Europe Wind Wholesale Power
170	Europe, Middle East and Africa Electric Utilities
171	Europe, Middle East and Africa Rail Transportation
172	Europe, Middle East and Africa Water Utilities
401	Paints Manufacturing
402	Pan-America Wireless Services
403	Pan-Americas Mixed Wholesale Power
404	Pan-Asia/Pacific Wholesale Power
405	Parking Facility Services
406	Passenger Car Rental
407	Passenger Rail Transportation
408	Payment Processing Software
409	Pension Fund Managers
410	Performing Arts and Exhibitions
411	Peripheral Semiconductors
412	Petroleum Liquid Pipeline and Storage
413	Petroleum Storage and Transportation
414	Pharmacies and Drug Stores
415	Photovoltaic and Solar Cells and Systems Providers
416	Pipes and Pipe Fittings Manufacturing
417	Plastic and Reconstructive Surgery Devices
418	Plumbing Fixtures and Trim Manufacturing
419	Point of Care Testing Kits
420	Point-of-Sale (POS) Terminal Manufacturing
421	Power Generation Infrastructure Construction
422	Power, Control and Mixed Signal Semiconductors
423	Primary Patient Care
424	Private Wealth Managers
425	Process Plants, Utilities and Energy Construction
426	Programmable Logic Device Semiconductors
427	Propane and LPG Marketing and Distribution
428	Public Infrastructure Components Manufacturing
429	Radio Broadcasting
430	Ready-Mix Concrete Makers
431	Real Estate Classifieds and Directories Sites
432	Recycling Services
433	Residential Specialty Engineering Contractors
434	Retail Advisory Services
435	Retail Brokerage Services
436	Retail Industry Software
437	RF Analog and Mixed Signal Semiconductors
438	RFID Asset Tracking Equipment Manufacturing
439	Securities Exchanges
440	Security and Management Consulting

78.iSTOXX MEGATRENDS SELECT INDICES

173	Events, Tickets and Mixed-Type Recreation
174	Express Couriers
175	Finance and Banking Systems Production
176	Finance Information and News Media and Sites
177	Financial and Compliance ERP Software
178	Fitness and Exercise Equipment
179	Fitness and Recreational Sports Centers
180	Fixed Microwave Systems Equipment
181	Flash Memory Semiconductors
182	Flooring Manufacturing
183	Food Delivery Services
184	Fuel Cell Equipment and Technology Providers
185	Full Service Hotels and Resorts
186	Funeral and Cemetery Services
187	Garbage Services
188	General Analog and Mixed Signal Semiconductors
189	General and Acute Hospitals
190	General Architectural Component Manufacturing
191	General Building Materials Distribution
192	General Carrier Edge (Access) Equipment
193	General Coatings and Paints Makers
194	General Communications Equipment
195	General Construction Materials Manufacturing
196	General Customer Premises Equipment (CPE)
197	General Death Care Services
198	General Delivery and Logistics Providers
199	General Enterprise Management Software
200	General Entertainment Content Providers and Sites
201	General Factory Automation Makers
202	General Information Technology (IT) Consulting
203	General Infrastructure and Network Consulting
204	General Security Services
205	General United States Telecommunications Services
206	Geothermal Energy Equipment Manufacturing
207	Global Energy Utilities
208	Grocery Delivery Services
209	Handheld and Smart Phone Games Software
210	Hardware, Plumbing and HVAC Supplies
211	Hazardous/Industrial Waste Disposal
212	Healthcare and Life Sciences Equity REITs
441	Server Computer Systems
442	Sewage and Water Infrastructure Construction
443	Shipping Infrastructure and Services (Ports)
444	Skilled Nursing Facility (Nursing Home)
445	Smart Grid Technology and Smart Meter Products
446	Smart Phone Manufacturing
447	Software Design and Engineering Consulting
448	Soil Remediation
449	Solid Waste Recycling Equipment Manufacturing
450	Specialized Patient Care
451	Specialty Analog and Mixed Signal Semiconductors
452	Sporting Goods Stores
453	Structural Support Component Manufacturing
454	Student and Specialty Housing Equity REITs
455	Supply Chain ERP Software
456	Team, Individual and Other Sports Manufacturing
457	Telecommunications Construction
458	Telecommunications Customer Relationship Software
459	Telemedicine
460	Test and Measurement Communications Equipment
461	Toll Road Operators
462	Tools and Outdoor Care Building Hand Tool Products
463	Tour Operators
464	Trade Execution Services
465	Trading Software
466	Traditional Energy Infrastructure Construction
467	Transportation Construction
468	Travel Agencies
469	Travel Publishers
470	Truck, Trailer and Recreational Vehicle Rental
471	Type 1 Diabetes Biopharmaceuticals
472	United States Biomass Wholesale Power
473	United States Class I Railroad Transportation
474	United States Decentralized Wholesale Power
475	United States Geothermal Wholesale Power
476	United States Hydroelectric Wholesale Power
477	United States Midwest Electric Utilities
478	United States Midwest Natural Gas Utilities
479	United States Mixed Alternative Wholesale Power
480	United States Natural Gas Utilities

78.iSTOXX MEGATRENDS SELECT INDICES

213	Healthcare Consulting
214	Healthcare General Support Services
215	Healthcare Management Software
216	Healthcare Operations Support Software
217	Heating, Ventilation and Air Conditioning Products
218	Hematological Oncology Biopharmaceuticals
219	Home Builders
220	Home Builders and Manufactured Buildings
221	Home Healthcare
222	Home Testing Clinical Diagnostics Devices
223	Household Robot Makers
224	Hydroelectric Power Generation Equipment Providers
225	Hydrogen Fuel Manufacturing
226	IC-Level Electronic Design Software
227	IC-Level Intellectual Property Software Libraries
228	Image Sensor and Image Capture Semiconductors
229	Industrial and Engineering Hand Tool Manufacturing
230	Industrial and Warehouse Equity REITs
231	Industrial Equipment Leasing Services
232	Industrial Robots and Robotic Assembly Line Makers
233	Information Storage Systems
234	Institutional Brokerage Services
235	Institutional Financial and Research Content Sites
236	Insulation Manufacturing
237	Insurance Software
238	Integrated Steel Mills Mixed Production Makers
239	Interior/Exterior Covering Materials Distribution
240	International Electricity Generator Utilities
241	International Fixed Satellite Services
242	International Mobile Satellite Services
243	International Natural Gas Pipeline and Storage
244	International Natural Gas Utilities
245	Internet Accessories Retail
246	Internet Apparel Retail
247	Internet Department Stores
248	Internet Discount Stores
249	Internet Electronics Retail
250	Internet Entertainment Retail
251	Internet Footwear Retail
252	Internet Off-Price Retail
481	United States Northeast Electric Utilities
482	United States Northeast Natural Gas Utilities
483	United States Satellite Services
484	United States Short-Line Railroad Transportation
485	United States Solar Wholesale Power
486	United States South Atlantic Electric Utilities
487	United States South Electric Utilities
488	United States South Natural Gas Utilities
489	United States Transmission, Dist., and Storage
490	United States Video and Television Services
491	United States Water Utilities
492	United States West Electric Utilities
493	United States West Natural Gas Utilities
494	United States Wind Wholesale Power
495	United States Wireless Business Data Services
496	United States Wireline Business Data Services
497	United States Wireline Data Services
498	Urology Biopharmaceuticals
499	Urology Devices
500	US and Canada CNG and LNG Distributors
501	US and Canada Crude Oil Liquid Pipeline/Storage
502	US and Canada Natural Gas Pipeline and Storage
503	US and Canada Petroleum Storage and Transport
504	US and Canada Propane and LPG Mktg. and Dist.
505	US Mixed Fossil Fuel Wholesale Power
506	US Mixed Traditional Fuel Wholesale Power
507	US Mixed Wholesale Power
508	US Natural Gas Pipeline and Storage
509	US Natural Gas Wholesale Power
510	US Voice Over IP Telephony (VoIP) Services
511	US West South Central Electric Utilities
512	Utility Infrastructure Construction
513	Utility Meter Manufacturing
514	Vacation Ownership Operators
515	Vehicle Autonomous Control Electronics Makers
516	Vehicle Autonomous Control Software
517	Virtual Reality Design and Engineering Software
518	Virtual Reality Equipment
519	Volatile Memory Semiconductors
520	Waste-to-Energy Services

78. iSTOXX MEGATRENDS SELECT INDICES

253	Internet Pharmacies and Drug Retail	521	Wastewater Residual Management
254	Internet Warehouse / Superstore Retail	522	Wastewater Treatment Services
255	Investment Management/Brokerage Software	523	Water Transportation (Ferry Service)
256	Issuance and Securitization Services	524	Wave Energy Equipment Manufacturing
257	Joint Replacement and Reconstruction Devices	525	Wearable Technology
258	Land Equity REITs	526	Web Search Sites and Software
259	Landfill Services	527	Western Europe Wireless Services
260	Lasers and Optical Instrument Manufacturing	528	Western Europe Wireline Services
261	Latin America Biomass Wholesale Power	529	Wind Energy Equipment Manufacturing
262	Latin America CNG and LNG Distributors	530	Windows and Doors Manufacturing
263	Latin America Crude Oil Liquid Pipeline/Storage	531	Winter Sports
264	Latin America Decentralized Wholesale Power	532	Wireless and Wi-Fi Equipment
265	Latin America Electric Power Utilities	533	Wireless Infrastructure Services
266	Latin America Geothermal Wholesale Power	534	Wireline Equipment
267	Latin America Hydroelectric Wholesale Power	535	Wireline Infrastructure Services
268	Latin America Mixed Alternative Wholesale Power		

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top 60 lowest volatility stocks are selected for the next step of the selection process. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).
2) Subsequently, the remaining companies, are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Country
   For each country i, a maximum number of components K is calculated as follows and rounded to the nearest integer, such that diversification is ensured and the country profile of the EURO iSTOXX Megatrends Select 30 Index does not deviate much from the corresponding weights of the EURO STOXX 50 Index.

$$\mathrm{K_i} = (\mathrm{SX5E_i} + 10\%) * \mathrm{N}$$

where:

$\mathrm{K_i}$	maximum number of components from country i, allowed for inclusion in the EURO iSTOXX Megatrends Select 30 Index
$\mathrm{SX5E}_i$	weight of the components coming from country i, in the EURO STOXX 50, as of the cutoff date
N	number of constituents in the EURO iSTOXX Megatrends Select 30 Index (30)

78. iSTOXX MEGATRENDS SELECT INDICES

b. Industry

For each industry j of the 11 ICB Industries, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$L_j = (SX5E_j + 10\%) * N$$

where:

L_j	maximum number of components from industry j, allowed for inclusion in the EURO iSTOXX Megatrends Select 30 Index
$SX5E_j$	weight of the components coming from country j, in the EURO STOXX 50 Index, as of the cutoff date
N	number of constituents in the EURO iSTOXX Megatrends Select 30 Index (30)

If the composition list cannot be completed with 30 stocks under the above constraints, then the securities with the highest dividend yield that did not pass the diversification assessment, are admitted in the index composition until this is complete with 30 securities.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

78. iSTOXX MEGATRENDS SELECT INDICES

78.2.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

79. iSTOXX GLOBAL 5G & NEXGEN TELECOMMUNICATION COMPONENTS

79.1. iSTOXX GLOBAL 5G & NEXGEN TELECOMMUNICATION COMPONENTS INDEX

79.1.1. OVERVIEW

The iSTOXX Global 5G & NexGen Telecommunication Components Index is comprised of companies that stand to benefit from the continuous technological advancement in the telecommunications industry. The index focuses specifically on companies providing the network equipment, infrastructure and semiconductors required for the rollout of telecommunications services.

The index selects profitable companies that derive significant revenues from 32 sectors associated with the innovative communications technology theme, based on FactSet Revere (RBICS) data. Companies with the lowest investments in research and development are excluded, as are those that fail to meet thresholds of size and liquidity. Final selection into the index is determined by company size.

The investment universe consists of all stocks in France, Germany, Japan, Netherlands, South Korea, United Kingdom, United States, Hong Kong and Taiwan. Also included are China A shares listed in Shanghai/Shenzhen that are participants of the Stock Connect Program, as well as Chinese ADRs and so-called P Chips, Red Chips and H-Shares. The index is free-float market-capitalization-weighted with weight caps, and has a maximum constituency number of 100.

Universe: The index universe is defined by all stocks included in the indices below, as observed on the review effective date:

- STOXX China A Total Market: *only shares available to foreign investors through Shanghai-Hong Kong Stock Connect or Shenzhen-Hong Kong Stock Connect*
- STOXX China ADR Total Market
- STOXX China H Total Market
- STOXX China P Chips Total Market
- STOXX China Red Chips Total Market
- STOXX France Total Market
- STOXX Germany Total Market
- STOXX Hong Kong Total Market
- STOXX Japan Total Market
- STOXX Netherlands Total Market
- STOXX South Korea Total Market
- STOXX Taiwan Total Market
- STOXX UK Total Market
- STOXX USA Total Market

Secondary lines eligibility: All the share lines of a company are eligible for the selection.

Weighting scheme: The indices are weighted according to free-float market capitalization, with a cap of 6% at security level. Furthermore, the sum of the weights of all components of the index that are originally coming from the STOXX China A Total Market Index, is capped at 10%.

Base values and dates: 100 on Sep 18, 2015

79. iSTOXX GLOBAL 5G & NEXGEN TELECOMMUNICATION COMPONENTS

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX America calendar

79.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the index universe are screened for all of the following criteria (applied in the order in which they are listed):

» **Minimum liquidity:** free-float market capitalization and 3-month average daily trading value (ADTV) equal to or greater than 500,000,000 USD and 2,000,000 USD respectively. In the case of current components, the above thresholds are lowered to 375,000,000 USD and 1,500,000 USD instead.

» **Revenues:** more than 30% revenues generated within the aggregate of the RBICS sectors associated to the NexGen Innovative Technology (see table below).

» **Profitability:** strictly positive Return on Equity (ROE) and Earnings per Share (EPS) in the last 12 months.

» **Innovation:** All remaining companies (Y), are sorted in descending order by their last 12 months' Research & Development (R&D) Expense-to-Sales ratio, and the top Z companies with the highest R&D-to-Sales ratio, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 80\%)$.

If data for any of the indicators above is missing, a value of 0 is used instead.

All remaining companies constitute the selection list., with a minimum number of 50 securities targeted. If the screening process described above results in being too restrictive, the process is repeated with relaxed liquidity (step 1) and innovation (step 4) filters, such that:

a) the minimum liquidity filters for all companies (including current index components) are relaxed to 300,000,000 USD free-float market capitalization and 1,000,000 USD 3-month ADTV respectively.

b) all companies remaining after step 3 with a strictly positive R&D-to-Sales ratio, will constitute the selection list

List of RBICS sectors associated with the 5G & NexGen Telecommunication Components for the purposes of constituent selection:

Nr	NexGen Innovative Technology
1	Cable Interconnect Components
2	Cellular Site Equipment
3	Electronic Materials Manufacturing
4	Flexible Circuit Manufacturing
5	General Carrier Edge (Access) Equipment
6	General Metal Parts and Components Makers
7	Lasers and Optical Instrument Manufacturing
8	Magnetic Passive Electronic Components
9	Multimedia Semiconductors
10	Multi-Process Assembly Services

79. iSTOXX GLOBAL 5G & NEXGEN TELECOMMUNICATION COMPONENTS

11 Optoelectronics Electronic Components
12 Other Communications Semiconductors
13 Other Front End Processing Equipment Makers
14 Other Interconnect Components
15 Other Interconnect Fabrication Services
16 Other Passive Capacitor Electronic Components
17 Other Passive Electronic Components
18 Other Power Analog and Mixed Signal Semiconductors
19 Other Specialized Semiconductors
20 Other Test and Measurement Equipment
21 Printed Circuit Board/Wiring Board Manufacturing
22 Programmable Logic Device Semiconductors
23 Security and Identification Semiconductors
24 Semiconductor Assembly and Packaging Services
25 Semiconductor Foundry Services
26 Semiconductor Packaging and Testing Services
27 Semiconductor Testing Services
28 Semiconductors Distributors
29 Test and Measurement Communications Equipment
30 Turnkey Assembly Manufacturing Services
31 Wireless and Wi-Fi Equipment
32 Wireline Equipment

Composition list: All companies in the selection are sorted in descending order by their free-float market capitalization, and the 100 highest ranking companies are selected for inclusion in the index.

Review frequency: The index is reviewed annually in September. The review cut-off date for the observation of the parent index, liquidity, profitability, R&D and revenues is the last index dissemination day in August. The review effective date is first dissemination date following the third Friday of September. No further capping applies between reviews. Number of shares and Free Float are reviewed quarterly.

Weighting cap factors: Components are capped at a maximum weight subject to the capped weights calculations below. Cap factors are calculated annually in September. They are published on the second Friday of September, based on the stocks' closing prices of the preceding Thursday.

Target weight calculation: The target weight is defined according to the free-float market capitalization:

$$w_i = \frac{\mathrm{ffmcap}_i}{\sum_{j \text{ in comp list}}^{m} \mathrm{ffmcap}_j}$$

where:

ffmcap_i the free-float market capitalization of company i, using close price in USD on the Thursday preceding the second Friday of the review month

m the number of components in the iSTOXX Global 5G & NexGen Telecommunication Components index

79. iSTOXX GLOBAL 5G & NEXGEN TELECOMMUNICATION COMPONENTS

Capped weight calculations: The capped weights cw_i are derived from the target weights via an iterative process that minimizes the relative squared difference between the target weights and the capped weights while maintaining the following conditions:

» single stock cap for company i of 6%, and
» a “China A Stock Connect” grouping cap of 10%: the sum of the weights of all components of the index that are originally coming from the STOXX China A Total Market Index, is capped at 10%.

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their weight in the index.

79.1.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the indices constituting the parent universe are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

80. iSTOXX GLOBAL PROFITABILITY SELECT 30 INDEX

80.1. iSTOXX GLOBAL PROFITABILITY SELECT 30 INDEX

80.1.1. OVERVIEW

The iSTOXX Global Profitability Select 30 Index is comprised of 30 profitable, liquid stocks with low volatility and high dividend yields. The components are weighted by the inverse of the volatility.

Universe: The index universe is defined as all stocks from the STOXX Global 1800 index

Weighting scheme: The index is price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

80.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR

If any of the fields ii) and iii) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.

- **Minimum liquidity:** 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 8 million EUR
- **Multiple share lines:** in case a company is present with multiple listings in the eligible universe, only the most liquid share line is retained

Effective up until September 2020 review, all securities that remain after the application of the exclusion filters above, are allocated to one of the eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000

80.iSTOXX GLOBAL PROFITABILITY SELECT 30 INDEX

Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500 and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, all securities that remain after the application of the exclusion filters above, are allocated to one of the eleven industry groupings according to their ICB code, as follows:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55
Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

For each security, the following 4 profitability metrics are calculated:

i. Return on Assets:

$$\mathrm{RoA}_{i,t_0} = \frac{\text{Net Income before Extraordinary Items}_{i,t_0}}{\text{Total Assets}_{i,t_0}}$$

ii. Cash-flows from Operations to Total Assets ratio:

$$\mathrm{CFOTA}_{i,t_0} = \frac{\text{Cash flows from Operations}_{i,t_0}}{\text{Total Assets}_{i,t_0}}$$

iii. One-year change in Return on Assets:

$$1\mathrm{Y}\Delta\mathrm{RoA}_{i,t_0} = \mathrm{RoA}_{i,t_0} - \mathrm{RoA}_{i,t_0-12m}$$

iv. Negative Accruals:

$$\mathrm{NegAcc}_{i,t_0} = \mathrm{CFOTA}_{i,t_0} - \mathrm{RoA}_{i,t_0}$$

where,

t_0 cut-off date

For each security, each metric is converted into a z-score by subtracting the mean of the metric in the industry each security is allocated to and dividing by the standard deviation of the metric in the industry each security is allocated to. If information for a security is missing and a z-score for a profitability metric cannot be calculated, then a z-score of 0 is assigned to this metric. Finally, the 4-profitability z-scores are summed up and a total score is calculated for each security.

80.iSTOXX GLOBAL PROFITABILITY SELECT 30 INDEX

All securities are sorted by their total score in descending order in the industry they belong to. The top 50% (highest total score) of the securities, rounded down to the previous integer, in each industry, are included to the next step of the selection process.

The included stocks are sorted in ascending order in terms of volatility (as defined above). The top 50% (lowest volatility) of these securities, rounded down to the previous integer, are selected and constitute the selection list.

Composition list: Stocks in the selection list are ranked in descending order in terms of 12-month historical dividend yield and the top 30 (highest dividend yield) stocks are selected in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of February, May, August and November respectively.

Weighting cap factors: Target weights are calculated based on the historical volatility of the selected components:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{30} \frac{1}{\sigma_j}}$$

where,

w_i	target weight of component i
σ_i	maximum between the 3-month and 12-month historical volatility of component i as of review cut-off date, based on prices in EUR

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x wi / pi), rounded to the nearest integer value.

80.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

81.1. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

81.1.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence High Dividend 30 Index allows a targeted investment in companies from a wide range of industries that invest heavily in the development of new AI technologies. These companies are well positioned to benefit from the growing trend towards automation. The index is comprised of 30 liquid stocks with high dividend yield, weighted by the inverse of their volatility.

Sustainability criteria are incorporated in the selection process and only securities ranking in terms of ESG score in the top half of the investable universe are considered eligible for selection. Moreover, companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapon activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Weapons (Small Arms and Military Contracting), Gambling, Adult Entertainment, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco are also excluded.

Universe: The index universe is defined by all the stocks included in the STOXX Developed and Emerging Markets Total Market Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on March 18, 2013

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

81.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, an ESG score of 0 is assigned to the security instead. The companies in the parent index are then ranked in descending order in terms of their ESG scores, and the 50% companies with the lowest ESG scores, rounded to the next integer, are excluded from the selection process. In case two companies for a given cut-off date have the same ESG score, priority is given to the one with the with the highest free-float market capitalization.

The remaining companies are then screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

iii. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco

If any of the fields ii) and iii) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.

The screening filters below are then applied on the remaining securities:

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment.
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons:** STOXX will exclude companies that Sustainalytics identifies to be involved with controversial weapons
  The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.
  The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement:** STOXX will exclude companies that Sustainalytics identifies to have

  Weapons:
  i) Small Arms:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms
  »>10% revenues from retail and/or distribution of assault weapons
  »>10% revenues from retail and/or distribution of small arms (non-assault weapons)
  »>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

ii) Military Contracting:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials

Gambling:
»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

Thermal Coal:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Conventional Oil & Gas:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Unconventional Oil & Gas
i) Arctic Oil and Gas Exploration:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

ii) Oil Sands:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
iii) Shale Energy:
»>0% revenues from shale energy exploration and/or production

Nuclear Power:
»>25% revenues from nuclear power production:
Utilities that own/operate nuclear power generators
Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power
»>25% revenues from nuclear power supporting products / services, including:
Design and construction of nuclear power plants
Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate
»>25% revenues from nuclear power distribution, including:
The resale or distribution of electricity generated from nuclear power;
This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

- **Exposure in Artificial Intelligence:** for a security to be eligible for selection, it must also be a component of the STOXX AI Global Artificial Intelligence ADTV5 Index, as observed on the review effective date.

The STOXX AI Global Artificial Intelligence ADTV5 Index is comprised of all those companies from the STOXX Developed and Emerging Markets Total Market Index that are identified as Artificial Intelligence (AI) innovators as well as AI adopters. The key criterion used in the selection process is patent filings related to AI Intellectual Property (IP). STOXX teamed up with an award-winning AI company, Yewno, whose proprietary AI algorithms, which include machine learning, computational linguistics and knowledge graph techniques, are used to identify the AI IP Exposure and the AI Contribution of each company in the STOXX Developed and Emerging Markets Total Market Index.

AI Intellectual Property Exposure is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of patents awarded to that company over the same period. It provides an indication of the importance AI research and applications to the overall activities of each company.

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

AI Contribution is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of AI patents awarded to all companies in the index universe. It provides an indication of the importance of each company's AI research and applications to the overall AI-related activities of other companies in the index universe.

The STOXX AI Global Artificial Intelligence ADTV5 Index is comprised of all those companies from the STOXX Developed and Emerging Markets Total Market Index that fall above the 25th percentile in both AI IP Exposure and AI Contribution, among the rest of the companies in the parent universe that also have a positive AI exposure (companies with no AI-related patents are disregarded in this ranking exercise). Furthermore, the index selects companies with a 3-month average daily trading value greater than 5,000,000 EUR.

The detailed methodology of the STOXX AI Global Artificial Intelligence ADTV5 Index can be found in the STOXX Index Methodology Guide: www.stoxx.com/rulebooks

Composition list: Stocks in the selection list are ranked in descending order in terms of their dividend yield and the top 30 (highest dividend yield) stocks are selected in the index. In case of identical dividend yields, the stock with the lowest volatility is given preference.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where,

w_i	target weight of component i
σ_i	maximum between the 3-month and 12-month historical volatility of component i as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x wi / pi), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

81. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE HIGH DIVIDEND 30 INDEX

81.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

82. iSTOXX CORE EURO & GLOBAL WATER INDEX

82.1. iSTOXX CORE EURO & GLOBAL WATER INDEX

82.1.1. OVERVIEW

The iSTOXX Core Euro & Global Water Index combines 40 large and liquid companies from the EURO STOXX Index (the core) with 10 companies selected from the STOXX Developed Markets Total Market Index which are very liquid and have revenue exposure to water related products (the satellite).
Companies that Sustainalytics considers to be non-compliant based on the Sustainalytics Global Standards Screening assessment or to be involved with controversial weapons are excluded. Additionally, companies that generate above 10% of their revenues from conventional Oil & Gas or are involved in thermal coal extraction or in unconventional Oil & Gas are excluded.

Universe:

- Core: EURO STOXX
- Satellite: STOXX Developed Markets Total Market

Weighting scheme: The index is price-weighted with a weighting factor to achieve equal weighting.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

82.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in both universes are screened for the following indicators:
i. 3-month Average Daily Traded Volume (ADTV) in EUR
ii. Product Involvement information in the categories:
Unconventional Oil & Gas (Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal.

If any of the fields above have missing information for a stock, then that company is excluded from the selection process.

The Selection lists consists of all remaining stocks that fulfil all the conditions below:

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

82.iSTOXX CORE EURO & GLOBAL WATER INDEX

- **Controversial Weapons**: STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

  The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas:

1) **Thermal coal:**
   STOXX will exclude companies that Sustainalytics identifies to have:
   »>0% revenues from thermal coal extraction (including thermal coal mining and exploration)

2) **Conventional Oil & Gas:**
   STOXX will exclude companies that Sustainalytics identifies to have:
   »>10% revenues from oil and gas exploration, production, refining, transportation and/or storage.This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).

3) **Unconventional Oil & Gas**

   Oil Sands:
   STOXX will exclude companies that Sustainalytics identifies to have:»>0% revenues from extracting oil sands. This category evaluates oil sands'share of total oil and gas average production in barrels of oil equivalent per day

   Shale Energy:
   STOXX will exclude companies that Sustainalytics identifies to have:
   »>0% revenues from shale energy exploration and/or production

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR

Composition list:

Core: the largest 40 companies in terms of free-float market capitalization of the selection list are selected from the core composition list.

Satellite: The Satellite composition list with 10 securities is derived by following the steps below:

82.iSTOXX CORE EURO & GLOBAL WATER INDEX

1) For each security in the satellite selection list, the revenue coming from water related products is calculated as follows:

$$water\ rev_i = water_wm_i + water_i_i + water_t\&e_i + water_u_i$$

where:
-water_wm: revenue coming from water adaptation and watershed management
-water_i: revenue coming from water infrastructure
-water_t&e: revenue coming from water technologies and equipment
-water_u: revenue coming from water utilities

2) All securities from the selection list are ranked in descending order of their free-float market capitalization, and the top 10 stocks having water_rev_i greater or equal than 25% are selected.

If 10 companies are not found, Step 2) is repeated with a threshold lowered by 5% and the largest companies are added to the previous step until 10 companies are found or the threshold reach 5%. If still no enough companies are found, the composition list is completed with largest securities from the core selection list that are not already selected in the core composition list.

The final composition list is derived by merging the core composition list and the satellite composition list.

Weighting and capping factors: The constituents are equal weighted

$$w_i = \frac{1}{N}$$

Where:
w_i target weight of component i
N Number of components in the index (50)

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:
Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

82.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

82.iSTOXX CORE EURO & GLOBAL WATER INDEX

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

83. EURO iSTOXX WOMEN IN MANAGEMENT HIGH DIVIDEND 30 INDEX

83.1. EURO iSTOXX WOMEN IN MANAGEMENT HIGH DIVIDEND 30 INDEX

83.1.1. OVERVIEW

The EURO iSTOXX Women in Management High Dividend 30 Index tracks the performance of 30 liquid high dividend-paying stocks. The components are selected from a pool of companies with high percentage of women executives among their ranks. Industry and country neutrality filters are applied in the selection process to ensure diversification. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective date.

Weighting scheme: The indices are free-float market capitalization weighted

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

83.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, while the review effective date is the first index dissemination date following the 3rd Friday of the review month. Upon the review cut-off date all stocks in the index universe are screened for their percentage of female executive members, and in case this information is missing for any of them, then the missing value is substituted by 0. The securities are sorted in descending order in terms of their percentage of female executive members, and the top 50% companies, rounded down to the previous integer, with the highest percentages in that key performance indicator, are considered eligible for inclusion in the Selection list. In case two companies for a given cut-off date have the same percentage of women executives, priority is given to the one with the highest dividend yield. Following the ranking process, if there are any companies remaining in the top 50% with an indication of 0% female executive members, then these companies are also dropped such that only companies with higher than 0 values are considered.

The filters below are applied in the remaining securities, in the order they are listed:

- **Liquidity screening**: Securities with 3-month Average Daily Traded Volume (ADTV) in EUR below 20 million EUR are excluded

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment.

  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations

83. EURO iSTOXX WOMEN IN MANAGEMENT HIGH DIVIDEND 30 INDEX

Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons**: STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons

  The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.
  The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

Composition list: All stocks from the selection list are screened for their historical net dividend yield.
If this information is not available for a security, then the missing value is substituted by 0.

The companies are sorted in descending order in terms of their dividend yield and the top 30 (highest dividend yield) stocks are selected in such a way that the following conditions are met:

a. Industry

Effective up until September 2020 review, 11 industrial groupings are identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Supersectors 8300, 8500, and 8700
Real Estate	Supersector 8600
Technology	Industry 9000

Effective with September 2020 review, 11 industrial groupings are identified based on the ICB Classification system, following the categorization below:

Grouping	ICB codes
Energy	Industry 60
Basic Materials	Industry 55

83. EURO iSTOXX WOMEN IN MANAGEMENT HIGH DIVIDEND 30 INDEX

Industrials	Industry 50
Consumer Staples	Industry 45
Healthcare	Industry 20
Consumer Discretionary	Industry 40
Telecommunications	Industry 15
Utilities	Industry 65
Financials	Industry 30
Real Estate	Industry 35
Technology	Industry 10

For each industrial grouping i, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$K_i = (SX5E_i + 20\%) * N$$

where:

K_i maximum number of components from industry i, allowed for inclusion in the EURO iSTOXX Women in Management High Dividend 30 Index

$SX5E_i$ weight of the components coming from industry i, in the EURO STOXX 50 Index, as of the cutoff date

N number of constituents in the EURO iSTOXX Women in Management High Dividend 30 Index

b. Country

For each country j, a maximum number of components is calculated as follows, rounded to the nearest integer:

$$L_j = \left(SX5E_j + 20\%\right) * N$$

where:

L_j maximum number of components from country j, allowed for inclusion in the EURO iSTOXX Women in Management High Dividend 30 Index

$SX5E_j$ weight of the components coming from country j, in the EURO STOXX 50 Index, as of the cutoff date

If the composition list cannot be completed with 30 stocks under the above constraints, the highest dividend yielding stocks that do not comply with the above industry and country constraints are selected to complete the composition list.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors: Weights are calculated based on the selected components' free-float market capitalization. Components are capped at a maximum weight of 10%.

83. EURO iSTOXX WOMEN IN MANAGEMENT HIGH DIVIDEND 30 INDEX

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month.

83.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

84. EURO iSTOXX AMBITION CLIMAT PAB INDEX

84.1. EURO iSTOXX AMBITION CLIMAT PAB INDEX

84.1.1. OVERVIEW

The EURO iSTOXX Ambition Climat PAB Index tracks the performance of liquid securities from the EURO STOXX Total Market Index. The index[88] is constructed to follow the EU Paris-aligned Benchmark (EU PAB) requirements outlined in the Commission Delegated Regulation (EU) 2020/1818 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards minimum standards for EU Climate Transition Benchmarks and EU Paris-aligned Benchmarks[89]. The index is designed to help investors shift towards a low-carbon economy and align investments to the Paris Climate Agreement.

Companies identified as non-compliant based on Sustainalytics Global Standards Screening (GSS) assessment, are involved in anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium and white phosphorus weapons or display a Severe (Category 5) Controversy Rating, as identified by Sustainalytics, are not eligible for selection. Tobacco Producers and Distributors, as identified by ISS ESG, are also not eligible. Securities that generate revenues above a certain threshold from coal, oil and gas exploration or processing activities are excluded. Furthermore, securities that derive higher than 10% of their revenues from thermal coal-based power generation, or higher than 50% from power generation with carbon intensity of lifecycle emissions higher than 100gCO_2e/kWh are not considered for selection. Furthermore, STOXX will exclude companies that ISS ESG assesses to have significant obstruction in the following UN SDGs: SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land.

The weighting process will follow an optimization process to meet the minimum requirements detailed in the Commission Delegated Regulation (EU) 2020/1818. EURO iSTOXX Ambition Climat PAB Index aims to reduce its greenhouse gases (GHG) intensity by at least 50% when compared to the benchmark index. Additionally, it is designed to meet the year on year 7% decarbonization target. Scope 1, Scope 2 and Scope 3 emissions are used in the total emission considerations[90]. All of these emissions, including Scope 3, are used across all sectors from the first date of index construction.

The methodology ensures that the index exposure to ‘High Climate Impact sectors’, sectors that are key to low-carbon transition, is not underweighted relative to the investment universe. STOXX will classify the eligible securities into two sectoral groups: ‘High Climate Impact’ and ‘Low Climate

[88] Regulation (EU) 2019/2089 amending Regulation (EU) 2016/1011 as regards EU Climate Transition Benchmarks, EU Paris-aligned Benchmarks and sustainability-related disclosures for benchmarks https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019R2089
[89] https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32020R1818
[90] Scope 1, Scope 2 and Scope 3 data obtained from ISS ESG. As a first step, ISS ESG collects all publicly available self-reported greenhouse gas emissions data from corporate disclosures such as CDP and CSR reports. Once self-reported emissions data from all available sources is collected, the data is tested for trustworthiness. This is done through a combination of quantitative and qualitative analysis.

84. EURO iSTOXX AMBITION CLIMAT PAB INDEX

Impact'. This is based on the securities' NACE industry classification[91]. The securities in the EURO iSTOXX Ambition Climat PAB Index are weighted such that the total weight of the high climate impact components is at least equal to the total high climate impact weight of the EURO STOXX TMI (EURO STOXX Total Market Index).

ISS ESG tracks companies that have disclosed science-based targets with the Science Based Targets initiative (SBTi)[92]. This comprises a list of securities that are setting greenhouse gas emission reduction targets in line with the goals of the Paris Agreement, i.e. to keep "global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius."[93] STOXX will use this information to identify which of these three groups companies belong to: (a) companies with concrete targets and emission reduction targets verified by SBTi, (b) companies that have committed to the SBTi but do not yet have approved targets, and (c) those that have not yet committed with the SBTi. The EURO iSTOXX Ambition Climat PAB Index overweighs companies with SBTi approved targets, and even more so those with SBTi approved targets and consistent 7% or more reduction in annual GHG intensity. Moreover, STOXX will allow up to 5 years of transition time for securities to commit and have their science-based targets approved and published by the SBTi. Starting in March 2021, securities that have not committed to the science-based initiatives will be underweighted incrementally and will not be eligible for selection starting in March 2023. Similarly, securities that are committed but do not have SBTi verified targets will be subjected to incremental underweighting (March 2021 to March 2025). From March 2025, the EURO iSTOXX Ambition Climat PAB Index will only include companies that have their targets approved and published by the SBTi. This is with the intention of incentivizing companies to commit and set science-based targets.

Green and brown energy revenue shares will be used in the construction of the index to ensure the total green share / brown revenue share of the EURO iSTOXX Ambition Climat PAB Index is at least four times that of the benchmark's green to brown revenue share. ISS ESG classifies revenues from renewable energy sources such as wind, solar, hydro, biomass and geo-thermal sources, and nuclear power as green revenues. In addition to these, the definition of green revenues extends to revenues that contribute to UN Sustainable Development Goal (SDG) 13, Climate Action[94]. On the other hand, revenues from fossil fuels or revenues that are obstructive to UN Sustainable Development Goal (SDG) 13 are considered as brown revenues.

ISS ESG's Carbon Risk Rating data assesses companies' capacity to manage future climate change related challenges and opportunities arising from the transition to a low-carbon economy. The risk rating considers companies' risk profiles, industry-specific challenges, companies'

[91] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as "High Climate Impact" and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as "Low Climate Impact". Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

[92] https://sciencebasedtargets.org/; the SBTi is a collaboration between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI), the World Wide Fund for Nature (WWF), and one of the We Mean Business Coalition commitments

[93] https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement

[94] SDG 13, Take urgent action to combat climate change and its impacts, is one of the UN Sustainable Development Goals (UN SDGs)

84. EURO iSTOXX AMBITION CLIMAT PAB INDEX

positive impact and ability to seize opportunities. STOXX uses this forward-looking CO_2 risk analysis to overweigh climate leaders while laggards are underweighted.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Total Market Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process to meet the EU PAB recommendations

Base values and dates: 100 on Mar 19, 2018

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

84.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied on the EURO STOXX Total Market Index.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved in anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium and white phosphorus weapons. The criteria for involvement are:

» Internal production or sale
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Controversy Ratings:
STOXX will exclude companies that Sustainalytics identifies to have a Controversy Rating of Category 5 (Severe).

Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest Event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

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Tobacco:
STOXX will exclude companies that ISS-ESG identifies to be tobacco producers (0% revenue threshold).
STOXX will exclude companies that ISS-ESG identifies to be tobacco distributers (10% revenue threshold).

The remaining securities in the universe list are screened for the following fundamental values (i and ii) and ISS ESG carbon and climate related indicators (iii to xii):

i. 3-month Average Daily Traded Volume (ADTV) in EUR
ii. Enterprise value including cash (EVIC) based on the fiscal year data for the end of the last calendar year
iii. Emissions data: Scope 1, Scope 2 and Scope 3 emissions.
The GHG Protocol Corporate Standard classifies companies' greenhouse gas (GHG) emissions as direct and indirect emissions[95]. Direct emissions, also known as Scope 1 emissions, refer to GHG waste produced and consumed by the reporting entity. For instance, on-site generation and use of energy is tracked under Scope 1. In contrast, indirect emissions, comprised of Scope 2 and Scope 3 emissions, occur as a consequence of the reporting company, but are generated by another entity. Scope 2 includes acquired/ purchased energy brought into the company's reporting boundary as a form of: electricity, steam, heating and cooling, and the rest of the indirect emissions form Scope 3 emissions. Any emissions associated with upstream and downstream processes, excluding Scope 2 emissions, are accrued towards Scope 3. Business travel, processing of sold products, transportation and distribution are all examples of Scope 3 emissions[96].
iv. Percentage of revenues from coal: this looks at the securities' revenue generated from coal exploration, production (excluding power generation), distribution, and supporting products and services. Power generation revenue share is considered separately and detailed in vi.
v. Percentage of revenues from fossil fuel exploration, production (excluding power generation), distribution and provision of supporting products and services: this looks at companies' revenue share in fossil fuels, including coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands. Power generation revenue share is considered separately and detailed in vii.
vi. Thermal coal-based power generation revenues: this looks at percentage of revenues derived from power generation coming solely from thermal coal.
vii. Power Generation revenue percentage coming from coal, oil and gas: electricity generation lifecycle assessment shows that GHG emissions coming from coal, oil and natural gas exceed 100 gCO_2e/kWh; similar assessment on renewable energy and nuclear power sources shows that the lifecycle GHG emissions is well below 100 gCO_2e/kWh[97]. For this data point, ISS ESG considers coal, oil and gas-based power generation revenues.
viii. UN SDGs: the ISS ESG SDG Impact Rating identifies companies' positive and negative impact towards the UN Sustainable Development Goals (UN SDGs) across three pillars:

[95] https://ghgprotocol.org/sites/default/files/standards/Scope%202%20Guidance_Final_Sept26.pdf
[96] http://www.ghgprotocol.org/sites/default/files/ghgp/standards/Scope3_Calculation_Guidance_0.pdf
[97] https://www.ipcc.ch/site/assets/uploads/2018/03/SRREN_Full_Report-1.pdf

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Product & Services, Operations and Controversies. STOXX will use the dataset to minimize index exposure to obstructions in the 4 environmental related UN SDGs, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land, by screening out companies identified to have significant obstruction in these areas.

ix. Carbon Risk Rating: ISS ESG evaluates companies' capacity to cope with future challenges related to climate change and to seize opportunities arising from a transition to a low-carbon economy. This data will be used to overweigh climate leaders, and climate laggards will be underweighted.

x. Carbon Budget: ISS ESG Carbon Budget data helps assess companies' alignment with different scenarios. STOXX will use this Carbon Budget data in the EURO iSTOXX Ambition Climat PAB Index to ensure the index is aligned with the IEA Sustainable Development Scenario (SDS) pathway until 2050.

The ISS ESG scenario analysis combines the IEA scenario with the Sectoral Decarbonization Approach (SDA) by allocating a share of a global carbon budget to every company based on its market share and the IEA/SDA emissions scenario associated with its sector.

xi. Percentage of revenues from green sources: revenues coming from renewable energy sources such as: Wind, Solar, Hydro, Biomass and Geo-thermal sources. Nuclear Power is also considered as a green revenue source. In addition to these, the definition of green revenues extends to revenues that contribute to UN Sustainable Development Goal (SDG) 13, Climate Action[98].

xii. Percentage of revenues from brown sources: any revenues from fossil fuels (coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands) and the provision of supporting products or services is considered as brown revenue. The definition of brown revenues also extends to revenues that are obstructive to UN Sustainable Development Goal (SDG) 13, Climate Action.

Green and brown energy revenue shares will be used in the construction of the indices to ensure the total green share / brown revenue share of the EURO iSTOXX Ambition Climat PAB Index is at least four times that of the EURO STOXX Total Market Index's green to brown revenue shares.

xiii. Science-based Climate Targets: ISS ESG tracks securities that have disclosed science-based targets in line with the level of decarbonization required to keep global temperature increase below 2°C. STOXX will use this data to identify which of the following three groups companies fall into:

a. companies with concrete targets and emission reduction targets verified by the SBTi
b. companies that have committed with the SBTi but do not yet have approved science-based targets. Committed companies have 24 months to have their targets approved and published by the SBTi
c. companies that have not committed with SBTi

Securities with targets verified by the SBTi will be overweighed in the index. Securities with no commitments or no SBTi approved targets will be subjected to incremental underweighting and will not be eligible for selection starting 2023 and 2025 respectively.

[98] SDG 13, Take urgent action to combat climate change and its impacts, is one of the UN Sustainable Development Goals (UN SDGs)

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If any of the i to ix fields are unavailable for a security, the company will not be eligible for selection. Additionally, if a security does not have green or brown revenue share data, STOXX will assume the revenue share in these areas to be zero. STOXX will assume that a security is not committed if no science-based climate target data is available for it.

The selection list constitutes of all the remaining stocks that fulfil the conditions below:

- Liquidity requirements: 3-month ADTV equal to or exceeding 3 million EUR
- Activity exclusions: Companies that generate revenues above the specific thresholds with respect to the activities below are not eligible for selection:
    - STOXX will exclude companies that ISS ESG identifies to have higher than 1% revenues from coal exploration, production (excluding power generation), distribution and supporting product and services
    - STOXX will exclude companies that ISS ESG identifies to have higher than 10% revenues from fossil fuel exploration, production (excluding power generation), distribution and supporting products and services
    - STOXX will exclude companies that ISS ESG identifies to have higher than 10% revenues from thermal coal-based power generation
    - STOXX will exclude companies that ISS ESG identifies to have higher than 50% revenues from power generation with carbon intensity of lifecycle GHG emissions higher than 100g CO_2e/kWh
- STOXX will exclude companies that ISS ESG assesses to have significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15

Composition list:
The final composition list comprises all the securities that fulfil the requirements listed above. The securities' weights are derived through an optimization process and designed to meet the following requirements:

EU PAB Minimum requirements	EURO iSTOXX Ambition Climat PAB Index
Minimum Scope 1+2+3 GHG intensity reduction compared to EURO STOXX TMI. The GHG intensity of a security is calculated as: $\frac{Scope\ 1 + Scope\ 2 + Scope\ 3\ GHG\ Emissions}{Enterprise\ Value\ including\ Cash\ (in\ MEUR)}$	At least 60% (includes a 10% buffer)
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot.	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum exposure to sectors highly exposed to climate change issues compared to the EURO STOXX TMI	At least equal

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These sectors are identified as “High Climate Impact” based on NACE section codes[99]	
Corporate target setting (CTS)	The Corporate target setting score aims to ensure that companies with Science Based Target are overweighed and that: - by 2023, all companies in the index are committed to reducing their GHG emissions, and - by 2025, all companies in the index have SBTi approved science-based targets In more details: 1. Companies that have science-based targets approved and reported through the Science Based Target initiative and have reduced their total GHG emission intensity (Scope 1,2 and 3 emissions) by an average of at least 7% per annum for at least 3 consecutive years will have their weights increased by 1/3 2. Companies that have science-based targets approved and reported through the Science Based Target initiative but have not fulfilled the above carbon reduction criteria will have their weights increased by 1/5 3. Companies that are committed to reducing their GHG emissions but do not yet have science-based targets approved by the Science Based Target initiative will have their weights reduced by Y/5 where Y is the number of years since 2020 4. Companies that are not committed to reducing their GHG emissions will have their weight reduced by Y/3 where Y is the number of years since 2020

Additional considerations	EURO iSTOXX Ambition Climat PAB Index
Alignment with ISS ESG scenario alignment approach for the IEA Sustainable Development Scenario (SDS) pathway	The emissions pathway of the indices must be below the carbon budget for the SDS pathway of the current year and 2050
Carbon Risk Rating tilt	Climate leaders are overweighed, and climate laggards are underweighted
Minimum green share / brown share ratio compared to the EURO STOXX TMI	At least 4 times

[99] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as “High Climate Impact” and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as “Low Climate Impact”. Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

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Diversification	Exposure to a single NACE Section is within 5% of the of the EURO STOXX Total Market Index exposure If the EURO STOXX Total Market Index exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[100] weights will be imposed for the PAB index. In this case, the EURO iSTOXX Ambition Climat PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the EURO STOXX TMI exposure by higher than 5% Country exposure is within 5% of the country weight in EURO STOXX Total Market Index
Weight capping	Maximum weight: 4.5% Minimum weight: 0.01%

Weighting and capping factors:
The weights are derived though an optimization process with the goal to have a portfolio which is in line or beyond the decarbonization trajectory from the IPCC's 1.5°C scenario and that overweighs companies with a clear and proved evidence-based carbon reduction target as verified by SBTi.

Target weight calculations:
The target weight is defined according to the free-float market capitalization subject to the corporate target setting and carbon risk rating multipliers, as follows:

$$w_i = \frac{ffmcap_i \cdot CTS_i * CRS_i}{\sum_j^n ffmcap_j \cdot CTS_j * CRS_j}$$

Where:

CTS_i	= (1 + 1/3) if a company has verified science-based targets in accordance to the SBTi and has reduced its GHG intensity by an average of at least 7% per annum for at least 3 consecutive years
	= (1 + 1/5) if a company has verified science-based targets in accordance to the SBTi but has not fulfilled the above GHG intensity reduction criteria
	= (1 – min(1, Y/5)) if a company is committed to reducing its GHG emissions but does not have science-based targets approved by the SBTi
	= (1 – min(1, Y/3)) if a company is not committed to reducing its GHG emissions
Y	number of years since 2020. Y is 0 for 2020 and earlier years
N	number of components in the index
CRS_i	= (1 + CR_z_i) if CR_z_i >0
	= $(1 - CR_z_i)^{-1}$ if CR_z_i <=0
CR_z_i	= zeta score of the company's Carbon Risk Rating, as defined by ISS ESG

[100] NACE Division is a step lower (more granular) from the NACE Section code

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Capped weight calculations:
The capped weights cw_i are derived from target weights via an optimization that minimizes the relative squared difference between the target weights and the capped weights while ensuring that the year-on-year self-decarbonization fulfils the criteria of at least 7% on average starting from 2022 with respect to 2021. The optimization is performed to arrive at the weights subject to constraints to ensure that the composition fulfils the minimum requirements:

$$cw_i = argmin_{cw}\left(\sum_{i=1}^{n}\left(\frac{(cw_i - w_i)^2}{w_i}\right)\cdot\frac{1}{n} + \frac{(Previous\ year's\ GHG\ intensity\ reduction - 0.07)^2}{0.07}\right)$$

The previous year's GHG intensity reduction is calculated starting from 2022 with respect to 2021 as:

$$1 - \left(\frac{Index\ GHG\ Intensity_{current}\ \cdot (Inflation\ Adjustment\ Factor)}{Index\ GHG\ Intensity_{previous\ year-end}}\right)$$

where $Index\ GHG\ Intensity_t = \sum_{i=1}^{n}\left(w_{i,t}\cdot Security\ GHG\ Intensity_{i,t}\right)$ and $w_{i,t}$ is the weight of company i in the index at time t.

In calculating the previous year's GHG intensity reduction, the current GHG intensity is multiplied by the enterprise value inflation adjustment factor[101] in order to reflect the effects of inflation in enterprise values as an increasing average enterprise value of the index constituents could lead to an overall GHG intensity reduction where no actual GHG emissions reductions took place.
The following are the constraints of the optimization:

a) Maximum security weight of 4.5% and minimum security weight of 0.01%

b) The GHG intensity reduction of the index, $\sum_{i=1}^{n}(cw_i\cdot Security\ GHG\ Intensity_i)$ should be at least 60% when compared to the EURO STOXX TMI GHG Intensity

c) Year-on-year GHG intensity reduction of at least 7% starting from 2022 with respect to 2021. The year-on-year carbon reduction included is calculated as:

$$1 - \left(\frac{Index\ GHG\ Intensity_{current}\ \cdot Cumulative\ Inflation\ Adjustment\ Factor}{Index\ GHG\ Intensity_{2021\ year-end}}\right)^{1/T}$$

where *T* is the number of years since 2021

d) The green revenue share / brown revenue share of the index, $\frac{\sum_{i=1}^{n}(cw_i\cdot Green\ Revenue\ \%_i)}{\sum_{i=1}^{n}(cw_i\cdot Brown\ Revenue\ \%_i)}$, is at least 4 times that of the EURO STOXX TMI

[101] The enterprise value inflation adjustment factor is computed by dividing the average enterprise value of the index constituents at the end of calendar year by the average enterprise value of the index constituents at the end of the previous calendar year and has a minimum value of 1

84. EURO iSTOXX AMBITION CLIMAT PAB INDEX

e) The total exposure of components in the "High Climate Impact" according to NACE classification is at least equal to the EURO STOXX TMI

f) The exposure to a single NACE Section code is within 5% of the EURO STOXX TMI exposure

If the EURO STOXX TMI exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[102] weights will be imposed for the PAB index. In this case, the EURO iSTOXX Ambition Climat PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the EURO STOXX TMI exposure by higher than 5%

g) The exposure to a country is within 5% of the EURO STOXX TMI

h) The emission pathway of the index must be below its carbon budget for the IEA Sustainable Development Scenario (SDS) pathway of the current year and 2050. This is to ensure that the index is aligned with the SDS pathway decarbonization trajectory until 2050

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Review frequency:
The review is conducted on an annual basis in March. On a quarterly basis in June, September and December, the indices are rebalanced to consider changes in free-float or shares in issue. Furthermore, current components are screened for compliance and involvement. The cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

84.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[102] NACE Division is a step lower (more granular) from the NACE Section code

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84.1.4. SUMMARY

Summary	EURO iSTOXX Ambition Climat PAB Index
Universe	EURO STOXX Total Market Index
Screens	
Baseline Exclusions	Global Standards Screening Controversial Weapons Tobacco producers and distributers Significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15 Severe (level 5) Controversy Rating
Liquidity Requirements	3-month ADTV equal to or exceeding 3 million EUR
Activity Exclusions	Revenues from Coal activities: higher than 1% Revenues from Fossil Fuel activities: higher than 10% Revenues from power generation coming from Coal: higher than 10% Revenues from power generation coming from Coal, Oil & Gas: higher than 50%
Weighing process: weights derived through an optimization process to meet EU PAB requirements	
Minimum Scope 1+2+3 GHG intensity reduction compared to the EURO STOXX TMI. Scope 1, 2 and 3 emissions, are used across all sectors from the first date of index construction	At least 60% (includesa 10% buffer)
Year-on-year self-decarbonisation per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum green share / brown share ratio compared to the EURO STOXX TMI	At least 4 times
Minimum exposure of sectors highly exposed to climate change compared to the EURO STOXX TMI	At least equal

84. EURO iSTOXX AMBITION CLIMAT PAB INDEX

Corporate target setting (CTS)	Securities' free float market cap weights tilted with CTS score to favour securities with science-based targets. CTS scores assigned as follows:

CTS score	2020	2021	2022	2023	2024	2025 and later
Committed, has SBTi verified targets, and reduces GHG emission (>= 7%/annum for 3 years)	1+1/3 = 4/3					
Committed, has SBTi verified targets, but does not reduce GHG emissions by 7% per annum	1+1/5 = 6/5					
Committed but does not have SBTI approved targets	1	4/5	3/5	2/5	1/5	0
Not committed	1	2/3	1/3	0		

Additionally, Carbon Risk Rating score will be used to tilt the weights further. Tilt factor obtained as follows:

CRS_i = $(1 + CR_z_i)$ if $CR_z_i > 0$

= $(1 - CR_z_i)^{-1}$ if $CR_z_i <= 0$

CR_z_i = zeta score of the company's Carbon Risk Rating, as defined by ISS ESG

$w_i = \frac{ffmcap_i \cdot CTS_i * CRS_i}{\sum_j^n ffmcap_j \cdot CTS_j * CRS_j}$; where w_i is the weight of security i

Diversification	Exposure to a single NACE Section is within 5% of the of the EURO STOXX Total Market Index exposure If the EURO STOXX Total Market Index exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[103] weights will be imposed for the PAB index. In this case, the EURO iSTOXX Ambition Climat PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the EURO STOXX TMI exposure by higher than 5% Country exposure is within 5% of the country weight in EURO STOXX Total Market Index
Weight Capping	Maximum weight: 4.5% Minimum weight: 0.01%
Selection and Weighing Frequency	
Review and Rebalancing	Review is conducted on an annual basis in March, and rebalanced quarterly in June, September and December

[103] NACE Division is a step lower (more granular) from the NACE Section code

85. iSTOXX EUROPE ESG LEADERS ADDITIONAL EXCLUSIONS SELECT 30 INDEX

85.1. iSTOXX EUROPE ESG LEADERS ADDITIONAL EXCLUSIONS SELECT 30 INDEX

85.1.1. OVERVIEW

The iSTOXX Europe ESG Leaders Additional Exclusions Select 30 Index captures the performance of 30 European stocks with low volatility and high dividends from the STOXX Global ESG Leaders Index.

STOXX will exclude companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapon activities, as identified by Sustainalytics. Additionally, companies involved in Tobacco, Thermal Coal and Military Contracting are also excluded.

The component selection process also excludes all stocks whose 3-month or 12-month historical volatilities are the highest. Among the remaining stocks, the 30 with the highest 12-month historical dividend yields are selected to be included in the index.

Those constituents are weighted according to the inverse of their volatility, with a cap at 10%. The indices are reviewed quarterly.

Universe: The index universe is defined by all European stocks from the STOXX Global ESG Leaders, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility).

Base values and dates: 100 on March 19, 2012

Index types and currencies: Price, Net and Gross return in EUR

Dissemination calendar: STOXX Europe calendar

85.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last trading day of the month preceding the review month of the index.

The following screening filters below are applied on the securities:

» **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment.
Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and

85.iSTOXX EUROPE ESG LEADERS ADDITIONAL EXCLUSIONS SELECT 30 INDEX

Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

» **Controversial Weapons**: STOXX will exclude companies that Sustainalytics identifies to be involved with controversial weapons
The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.
The criteria for involvement are:
» Internal production or sale of controversial weapons
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

» **Product Involvement**: STOXX will exclude companies that Sustainalytics identifies to have

- **Military Contracting:**
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons

- **Tobacco:**
»>0% revenues from manufacturing tobacco products
»>5% revenues from the distribution and/or retail sale of tobacco products.

- **Thermal Coal:**
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>10% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

All companies in respect of which their Product Involvement cannot be determined, do not qualify for selection.

All remaining stocks are screened for their 12-month historical dividend yield. If the value is not available for a stock, the company is removed from the base universe. Additionally, if there are more than 10% of trading days suspension, the company is excluded:

$$Min\ Number\ of\ Price\ Observations_{12m\ Period} = Number\ of\ Trading\ Days_{12m\ Period}\ x\ 0.9$$

Composition list:

The following Equal Strength Ratio is calculated

$$ESR = \sqrt{\frac{x}{N}}$$

85. iSTOXX EUROPE ESG LEADERS ADDITIONAL EXCLUSIONS SELECT 30 INDEX

where,
N Number of stocks in the Eligible Universe
x Number of stocks in the final index (30)

All stocks from the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in EUR) and companies are selected based on the ESR:

$$number\ of\ companies\ to\ select\ (Volatility\ screen) = round\ down\ of\ (ESR\ x\ N)$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked 30 stocks are selected for the final index. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors: The weighting factors are calculated based on the inverse of their historical volatility. The weights are based on the prices of the Thursday prior to the second Friday of the review month:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{30} \frac{1}{\sigma_j}}$$

where:
w_i target weight of component (i)
σ_i Maximum between the historical 12-months and 3-months volatility of component (i), based on prices converted to EUR

Weighting factor = (100,000,000,000 x w_i / closing price of the stock in EUR), rounded to integers.

Additionally, components are capped at a maximum weight of 10%.

85.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.
Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: Spin-off stocks are not added permanently to the index.
Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

86. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE 100 INDEX

86.1. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE 100 INDEX

86.1.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence 100 Index allows a targeted investment in 100 companies from a wide range of industries that invest heavily in the development of new AI technologies. These companies are therefore considered to be well-positioned to benefit from the increased adoption of AI technologies.

STOXX teamed up with an award-winning AI company, Yewno, whose proprietary AI algorithms, which include knowledge graph techniques, are used to identify the index constituents from the universe of the STOXX® Developed and Emerging Markets Total Market Index. The key criterion used in the selection process is patent filings related to AI IP, thereby identifying AI innovators as well as AI adopters.

Universe: The index universe is defined by all the stocks included in the STOXX Developed and Emerging Markets Total Market Index, as observed on the review effective date.

Weighting scheme: Equal Weighted

Base values and dates: 100 on March 18, 2013

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

86.1.2. INDEX REVIEW

Selection list:
For the purposes of the STOXX AI Global Artificial Intelligence 100 Index, Yewno Inc. calculates two
metrics relevant to a company's involvement in the field of Artificial Intelligence:

AI Intellectual Property Exposure is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of patents awarded to that company over the same period. It provides an indication of the importance AI research and applications to the overall activities of each company.

AI Contribution is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of AI patents awarded to all companies in the indices Universe. It provides an indication of the importance of each company's AI research and applications to the overall AI-related activities of other companies in the index Universe.

Companies in the parent Universe are screened for the following criteria:

- **Positive AI Intellectual Property Exposure and AI Contribution**: Only companies with positive AI Intellectual Property Exposure and AI Contribution will be available for selection

86.iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE 100 INDEX

- **Multiple share lines:** in case a company is present with multiple listings in the parent Universe, only the largest one in terms of free-float market cap is considered
- **AI Pure Play:** Only companies with AI Intellectual Property Exposure and AI Contribution values equal or greater than the respective median values, among the remaining companies, will be available for selection
- **Liquidity:** Only companies with 3month ADTV in EUR greater than EUR 5,000,000 will be eligible for selection

Composition list: Stocks in the selection list are ranked in descending order in terms of free-float market cap, as of review cut-off date, and if there are more than 100 companies, the top 100 are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting cap factors: The constituents of the indices are equal weighted. The component composition list and weightings of the constituents (w_i) will be produced on a quarterly basis.

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

86.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

87. iSTOXX NORTHERN TRUST INDICES

87.1. iSTOXX NORTHERN TRUST DEVELOPED MARKETS HIGH DIVIDEND CLIMATE ESG INDEX

87.1.1. OVERVIEW

The iSTOXX Northern Trust Developed Markets High Dividend Climate ESG Index is designed to provide exposure to a high-quality income-oriented universe of developed-market equity securities, with an emphasis on long-term capital growth, and to achieve climate and sustainability targets. It is based on the STOXX Global 1800 Index and uses the proprietary Northern Trust Quality™ factor to identify companies that exhibit strength in profitability, management expertise and cash flow. The weighting of each constituent security is determined through an optimization process that is designed to maximize index exposure to the Northern Trust Quality score while reducing transaction costs and active variance with respect to the STOXX Global 1800 Index. Measurement of the climate and sustainability targets are via Northern Trust ESG Scores, Northern Trust ESG Exclusion Flags and ISS ESG carbon data.

Universe: STOXX Global 1800

Parent Index: STOXX Global 1800

Weighting scheme: The constituents are weighted to maximize the exposure of the index to the Northern Trust Quality score while minimizing the active variance of the index and transaction costs subject to a set of constraints.

Base values and dates: 100 on Apr 22, 2014

Index types and currencies: Price, net, and gross return in USD, EUR, GBP and CHF
For a complete list please consult the data vendor code sheet on the website.

Dissemination calendar: STOXX Global Calendar

87.1.2. INDEX REVIEW

Constituent selection and weighting: The portfolio construction is performed using Axioma's portfolio optimization software using the Axioma World-wide medium horizon fundamental factor risk model.
The objective of the optimization problem is to maximize the alpha score while penalizing active variance and transaction costs associated with the portfolio. The weightings of 0.1 and 0.3 in the objective function are designed to reflect the relative importance between the objective function terms, as well as the turnover constraint.

Maximize: $\alpha^T w - 0.1*(w - b)^T Q(w - b) - 0.3*\lambda_+^T t_+ - 0.3*\lambda_-^T t_-$

where:
w = Index weights
α = Northern Trust Quality score
b = Parent Index weights
Q = covariance matrix from Axioma Worldwide Medium Horizon Fundamental Factor Risk Model

87.iSTOXX NORTHERN TRUST INDICES

t_+, t_- = Buy and sell trades of the optimized portfolio
λ_+, λ_- = Stock level transaction costs of 1bps

The following constraints aim to ensure diversification, achievement of climate and sustainability targets as well as control for unintended systematic exposures.

Target	Constraint
Active weights	Asset level lower and upper bounds
Active style factor exposures	Lower and upper bounds on active style factor exposure
Active Country weights	Within 1% of Parent Index
Active Industry weights	Within 2% of Parent Index
Active Sector weights	Within 2% of Parent Index
Active Region weights	Within 0.5% of Parent Index
Active Region Industry weights	Within 1% of Parent Index
Maximum Turnover	20% limit on one-way turnover
Carbon Emission Intensity reduction	Minimum 50% reduction from Parent Index
Carbon Risk Rating	Minimum 20% increase from Parent Index
Northern Trust ESG Score	Minimum 20% increase from Parent Index
Active Dividend Yield exposure	Minimum 75% increase over Parent Index
Active Beta	Within 2.5% of Parent Index
Minimum holding	2 bps applied post optimization

Active Weights: The active weights of assets in the universe are limited by applying lower and upper active weight bounds which are determined using the Northern Trust Quality Ranks, dividend yield, the Northern Trust ESG score and the Northern Trust ESG Exclusion Flag[104]

The Northern Trust Quality Rank consists of three composite categories of signals - Management Efficiency, Profitability, Cash Flow / Financial Strength - each derived from publicly disclosed financial data to identify high quality companies. Additionally, the financial data is grouped into themes in the categories in order to generate the signals – CAPEX Outlay, Asset Growth, Capital Decisions, Business Profitability, Operating Efficiency, Cash Flow.

The Northern Trust ESG Score is designed to rank companies based on their management of material ESG metrics. The Score was designed to align with the Sustainability Accounting Standards Board (SASB) Standards and consistent with the SASB Materiality Matrix as the Standards were designed for investors and focus on only financially material issues based on the industry in which the company operates. The Score is a combination of individual ESG indicators, adjusted for industry membership.

[104] The Northern Trust ESG Exclusion Flag data is available from October 2020. Prior to this, screening criteria from Sustainalytics are used: Global Standards Screening assessment, Controversial Weapons, Tobacco, Weapons (Small Arms and Military Contracting) and Thermal Coal screens

87.iSTOXX NORTHERN TRUST INDICES

The Northern Trust ESG Exclusion Flag is designed to use ESG analytical data to potentially mitigate risks and explicitly exclude controversial business involvement or activity. The Screen for Developed Market securities consists of the following categories of controversy or business involvement flags – Global Norms, Business Involvement in Tobacco, Private Prisons or Weaponry and Business Involvement in Thermal Coal, Unconventional Oil and Gas or Arctic Oil, including assessing management of associated extraction or processing risks.

Dividend yield is based on a trailing twelve-month calculation, as specified in the Axioma Risk Model Handbook.

In what follows, UPB = the upper active bounds and LPB = lower active bounds.
Northern Trust Quality factor assigns each security in the Parent Index into one of five quality ranks ranging from 1 (high) to 5 (low) as well as a sixth group of names without a factor score. Ranks 1 to 5 have a quality score of 1%, 0.5%, 0%, -0.5%, and -1.0%.

Any security which is either not in the Parent Index or has been screened by the Northern Trust ESG Exclusion Flag or has no dividend yield or is in the lowest (5) Quality Rank or does not have a Quality Rank is not held. For these securities, LPB = UPB = -b. If a security is one of the two highest Quality Ranks (1 or 2), then LPB is the maximum of -b and -0.15% while UPB is the minimum of 1% and the maximum of four times b and 0.65%. If a security is in Quality Ranks 3 or 4, then LPB is the maximum of -b and -0.65% while UPB is the minimum of 0.6% and the maximum of one and a half times b and 0.3%.

An exception is made the above logic for securities with large Parent Index weights. Specifically, if b is greater than 1% and the security is not excluded by the Northern Trust ESG Exclusion Flag and has no dividend yield or is in the lowest quality rank or has not quality score, then LPB is the maximum of -b and -1% while UPB is the maximum of -b and -0.9%. This leads to these securities being held at an underweight.

Active Style Factor Exposures: The exposures of the index to style factors in the Axioma Fundamental Factor Risk Model are restricted to be within a range of the Parent Index exposures for the same factors. The active exposures for Growth, Leverage, Liquidity, Value and Volatility factors must be within 30% of the Parent Index. The active exposures for Momentum and Size factors must be within 10% and 40% of the Parent Index, respectively.

Active Country Weights: The exposure to each country is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

Active Industry/Sector Weights: The exposure to each ICB Industry and Sector is summed up for the Parent Index, and the percentage exposure of the index must be within 2% of those numbers.

Active Region Weights: The exposure to each region is summed up for the Parent Index, and the percentage exposure of the index must be within 0.5% of those numbers. The regions are Japan, North America. United Kingdom, Asia Pacific ex-Japan and Europe ex-United Kingdom.

Active Region Industry Weights: The exposure to each combined region-ICB industry is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

87.iSTOXX NORTHERN TRUST INDICES

Maximum Turnover: The index has a quarterly one-way turnover[105] limit of 20%.

Carbon Emission Intensity Reduction: The carbon emission intensity (ClimateTotalEmissionsIntUSD) of the index from ISS ESG must have a minimum reduction of 50% when compared to the Parent Index as of the review cut-off date.

Carbon Risk Rating: The carbon risk rating score (CarbonRiskRating[106]) of the index from ISS ESG must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date.

Northern Trust ESG Score: The ESG score of the index as measured by the Northern Trust ESG score from Northern Trust must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date.

Active Dividend Yield: Dividend yield for any asset is capped to 15% and the capped dividend yield of the index must have a minimum increase of 75% when compared to the Parent Index as of the review cut-off date.

Active Beta: The predicted beta of the index computed using the Parent Index and Axioma Risk Model must be within 2.5% of the Parent Index.

Minimum Holding: The minimum weight of each asset in the index is limited to 2bps. This is implemented post optimization by removing weights smaller than 2bps and rescaling the weights.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed iteratively minimizing constraint violations at each iteration in the following order: 1) Carbon Risk Rating and Northern Trust ESG score; 2) Active Country weights; 3) Active Industry weights; 4) Active Sector weights; 5) Active Region and Active Region Industry weights; 6) Maximum Turnover; 7) Active Dividend Yield exposure; and 8) Active Beta.

Review frequency: The index is reviewed quarterly one month after the Parent Index (implementation after the close of the third Friday and effective the next dissemination day in January, April, July and October). The weighting factors are calculated based on closing prices in EUR from the Wednesday before second Friday of the review month. Weighting factor = stock's target weight x (1,000,000,000 / closing price of the stock in EUR), rounded to the nearest integer.

The review cut-off dates for Parent Index and Axioma data are the Wednesday before second Friday of the review month. For Northern Trust data, the cut-off date is the first Friday of the review month. For ISS ESG data, the cut-off date is the last dissemination date of the month preceding the review month. The underlying announcements are published after the close of the second Friday of the review month.

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[105] The index review prior to index launch (October 2020) is calculated without turnover limitations.
[106] Carbon Risk Rating data from ISS begins in 2018. The constraint has been applied to the backtest starting from 2018.

87. iSTOXX NORTHERN TRUST INDICES

87.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. If one company is excluded from the STOXX Global 1800, but remains in the STOXX Global TMI, this company will not be excluded from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

87. iSTOXX NORTHERN TRUST INDICES

87.2. iSTOXX NORTHERN TRUST DEVELOPED MARKETS LOW VOLATILITY CLIMATE ESG INDEX

87.2.1. OVERVIEW

The iSTOXX Northern Trust Developed Markets Low Volatility Climate ESG Index is designed to track a high-quality universe of companies that exhibit lower overall absolute volatility and to achieve climate and sustainability targets. It is based on the STOXX Global 1800 Index and uses the proprietary Northern Trust Quality™ factor to identify companies that exhibit strength in profitability, management expertise and cash flow. The weighting of each constituent security is determined through an optimization process that is designed to reduce total variance and transaction costs. Measurement of the climate and sustainability targets are via Northern Trust ESG Scores, Northern Trust ESG Exclusion Flags and ISS ESG carbon data.

Universe: STOXX Global 1800

Parent Index: STOXX Global 1800

Weighting scheme: The constituents are weighted to minimize the total variance of the index and transaction costs subject to a set of constraints.

Base values and dates: 100 on Apr 22, 2014

Index types and currencies: Price, net, and gross return in USD, EUR, GBP and CHF
For a complete list please consult the data vendor code sheet on the website.

Dissemination calendar: STOXX Global Calendar

87.2.2. INDEX REVIEW

Constituent selection and weighting: The portfolio construction is performed using Axioma's portfolio optimization.
The objective of the optimization problem is to minimize total variance and transaction costs. The weighting of 1.5 in the objective function are designed to reflect the relative importance between the objective function terms, as well as the turnover constraint.

Minimize: $w^T Q w + 1.5 * \lambda_+^T t_+ + 1.5 * \lambda_-^T t_-$

where:
Q = covariance matrix from the Axioma Worldwide Medium Horizon Fundamental Factor Risk Model
w = Index weights
t+, t- = Buy and sell trades of the optimized portfolio
λ+, λ- = Stock level transaction costs of 1 bps

The following constraints are enforced in order to ensure diversification, achieve of climate and sustainability targets as well as control for unintended systematic exposures.

87.iSTOXX NORTHERN TRUST INDICES

Target	Constraint
Active weights	Asset level lower and upper bounds
Active style factor exposures	Lower and upper bounds on active style factor exposure
Active Country weights	Within 1% of Parent Index
Active Industry weights	Within 2% of Parent Index
Active Sector weights	Within 1% of Parent Index
Active Region weights	Within 1% of Parent Index
Active Region Industry weights	Within 2% of Parent Index
Maximum Turnover	20% limit on one-way turnover
Carbon Emission Intensity reduction	Minimum 50% reduction from Parent Index
Carbon Risk Rating	Minimum 20% increase from Parent Index
Northern Trust ESG Score	Minimum 20% increase from Parent Index
Minimum holding	2 bps applied post optimization

Active Weights: The active weights of assets in the universe are limited by applying lower and upper active weight bounds which are determined using the Dividend yield, Northern Trust Quality Ranks, the Northern Trust ESG score and the Northern Trust ESG Exclusion Flag[107].

The Northern Trust Quality Rank consists of three composite categories of signals - Management Efficiency, Profitability, Cash Flow / Financial Strength - each derived from publicly disclosed financial data to identify high quality companies. Additionally, the financial data is grouped into themes in the categories in order to generate the signals – CAPEX Outlay, Asset Growth, Capital Decisions, Business Profitability, Operating Efficiency, Cash Flow.

The Northern Trust ESG Score is designed to rank companies based on their management of material ESG metrics. The Score was designed to align with the Sustainability Accounting Standards Board (SASB) Standards and consistent with the SASB Materiality Matrix as the Standards were designed for investors and focus on only financially material issues based on the industry in which the company operates. The Score is a combination of individual ESG indicators, adjusted for industry membership.

The Northern Trust ESG Exclusion Flag is designed to use ESG analytical data to potentially mitigate risks and explicitly exclude controversial business involvement or activity. The Screen for Developed Market securities consists of the following categories of controversy or business involvement flags – Global Norms, Business Involvement in Tobacco, Private Prisons or Weaponry and Business Involvement in Thermal Coal, Unconventional Oil and Gas or Arctic Oil, including assessing management of associated extraction or processing risks.

[107] The Northern Trust ESG Exclusion Flag data is available from October 2020. Prior to this, screening criteria from Sustainalytics are used: Global Standards Screening assessment, Controversial Weapons, Tobacco, Weapons (Small Arms and Military Contracting) and Thermal Coal screens

87.iSTOXX NORTHERN TRUST INDICES

Dividend yield is based on a trailing twelve-month calculation, as specified in the Axioma Risk Model Handbook.

In what follows, UPB = the upper active bounds and LPB = the lower active bounds.
Northern Trust Quality factor assigns each security in the Parent Index into one of five quality ranks ranging from 1 (high) to 5 (low) as well as a sixth group of names without a factor score.

Any security which is either not in the Parent Index or has been screened by the Northern Trust ESG Exclusion Flag or is in the lowest (5) Quality Rank or does not have a Quality Rank is not held. For these securities, LPB = UPB = -b. If a security is one of the two highest Quality Ranks (1 or 2), then LPB is the maximum of -b and -0.2% while UPB is the minimum of 1.5% and the maximum of four times b and 0.75%. If a security is in Quality Ranks 3 or 4, then LPB is the maximum of -b and -1% while UPB is the minimum of 0.5% and the maximum of one and a half times b and 0.25%.

An exception is made the above logic for securities with large Parent Index weights. Specifically, if b is greater than 1.5% and the security is not excluded by the Northern Trust ESG Exclusion Flag and is in the lowest quality rank or has not quality score, then LPB is the maximum of -b and -1.5% while UPB is the maximum of -b and -1.45%. This leads to these securities being held at an underweight.

Active Style Factor Exposures: The exposures of the index to style factors in the Axioma Fundamental Factor Risk Model are restricted to be within a range of the Parent Index exposures for the same factors. The active exposures for Growth, Leverage, Liquidity, Value and Size factors must be within 30% of the Parent Index. The active exposures for Momentum must be within 20% of the Parent Index.

Active Country Weights: The exposure to each country is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

Active Industry/Sector Weights: The exposure to each ICB Industry and Sector is summed up for the Parent Index, and the percentage exposure of the index must be within 2% and 1% of those numbers, respectively.

Active Region Weights: The exposure to each region is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers. The regions are Japan, North America, United Kingdom, Asia Pacific ex-Japan and Europe ex-United Kingdom.

Active Region Industry Weights: The exposure to each combined region-ICB industry is summed
up for the Parent Index, and the percentage exposure of the index must be within 2% of those numbers.

Maximum Turnover: The index has a quarterly one-way turnover[108] limit of 20%.

[108] The index review prior to index launch (October 2020) is calculated without turnover limitations.

87.iSTOXX NORTHERN TRUST INDICES

Carbon Emission Intensity Reduction: The carbon emission intensity (ClimateTotalEmissionsIntUSD) of the index from ISS ESG must have a minimum reduction of 50% when compared to the Parent Index as of the review cut-off date.

Carbon Risk Rating: The carbon risk rating score (CarbonRiskRating[109]) of the index from ISS ESG must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date.

Northern Trust ESG Score: The ESG score of the index as measured by the Northern Trust ESG score from Northern Trust must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date.

Minimum Holding: The minimum weight of each asset in the index is limited to 2 bps. This is implemented post optimization by removing weights smaller than 2 bps and rescaling the weights.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed iteratively minimizing constraint violations at each iteration in the following order: 1) Carbon Risk Rating and Northern Trust ESG score; 2) Carbon Emission Intensity reduction; 3) Active Country weights; 4) Active Industry weights; 5) Active Sector weight; 6) Active style factor exposures, Active Region weights and Active Region Industry weights; 7) Maximum Turnover.

Review frequency: The index is reviewed quarterly one month after the Parent Index (implementation after the close of the third Friday and effective the next dissemination day in January, April, July and October). The weighting factors are calculated based on closing prices in EUR from the Wednesday before second Friday of the review month. Weighting factor = stock's target weight x (1,000,000,000 / closing price of the stock in EUR), rounded to the nearest integer.

The review cut-off dates for Parent Index and Axioma data are the Wednesday before second Friday of the review month. For Northern Trust data, the cut-off date is the first Friday of the review month. For ISS ESG data, the cut-off date is the last dissemination date of the month preceding the review month. The underlying announcements are published after the close of the second Friday of the review month.

87.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. If one company is excluded from the STOXX Global 1800, but remains in the STOXX Global TMI, this company will not be excluded from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

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[109] Carbon Risk Rating data from ISS begins in 2018. The constraint has been applied to the backtest starting from 2018.

87. iSTOXX NORTHERN TRUST INDICES

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

87. iSTOXX NORTHERN TRUST INDICES

87.3. iSTOXX NORTHERN TRUST EMERGING MARKETS INDEX

87.3.1. OVERVIEW

The iSTOXX Northern Trust Emerging Markets Index is derived from the STOXX Emerging Markets Total Market Index and the iSTOXX China All Share AM Index. With a coverage of about 85% of emerging equity markets' free-float market cap, the iSTOXX Northern Trust Emerging Markets Index offers access to large- and mid-cap emerging markets companies.

Universe: Union of the STOXX Emerging Markets Total Market Index and the iSTOXX China All Share AM Index.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: The following base values and dates apply: 1000 on Dec. 19, 2014

Index types and currencies: Price, net return, gross return in EUR and USD.

Dissemination calendar: STOXX Global Calendar

87.3.2. INDEX REVIEW

Composition list: In a first step, for Chinese companies for which both an ADR and a common share are part of the universe only the ADR is kept an all China A shares are removed.
Next, for each country represented in the universe the following selection procedure is applied to target 85% market cap coverage:

- Only securities from the respective country are selected
- After sorting by full market cap the cumulative free-float market capitalization coverage percentage for each security is calculated, whereby the percentages are scaled so that the total coverage percentage sums to 95%
- The following break points are determined: free-float market cap of largest company with cumulative free-float market cap above 83%, 85%, and 87%
- Companies with a free-float market cap greater than or equal to the free-float market cap determined for the 85% break point directly qualify
- To reduce turnover, the following buffer rule is applied:
    - Newly to be added securities are not added if their free-float market cap is below or equal to the free-float market cap determined for 83% break point
    - Newly to be removed securities are not removed if their market cap is above or equal to the free-float market cap determined for the 87% break point

Afterwards, the resulting eligible securities of all countries are combined to form the index composition.

Review frequency: The index is reviewed quarterly in line with its universes.

87. iSTOXX NORTHERN TRUST INDICES

Weighting cap factors: Securities are weighted by free-float market cap.

87.3.3. ONGOING MAINTENANCE

Replacements: Deleted securities are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

87. iSTOXX NORTHERN TRUST INDICES

87.4. iSTOXX NORTHERN TRUST EMERGING MARKETS HIGH DIVIDEND CLIMATE ESG INDEX

87.4.1. OVERVIEW

The iSTOXX Northern Trust Emerging Markets High Dividend Climate ESG Index is designed to provide exposure to a high-quality income-oriented universe of emerging-market equity securities, with an emphasis on long-term capital growth, and to achieve climate and sustainability targets. It is based on the iSTOXX Northern Trust Emerging Markets Index and uses the proprietary Northern Trust Quality™ factor to identify companies that exhibit strength in profitability, management expertise and cash flow. The weighting of each constituent security is determined through an optimization process that is designed to maximize index exposure to the Northern Trust Quality score while reducing transaction costs and active variance with respect to the iSTOXX Northern Trust Emerging Markets Index. Measurement of the climate and sustainability targets are via Northern Trust ESG Scores, Northern Trust ESG Exclusion Flags and ISS ESG carbon data.

Universe: iSTOXX Northern Trust Emerging Markets Index

Parent Index: iSTOXX Northern Trust Emerging Markets Index

Weighting scheme: The constituents are weighted to maximize the exposure of the index to the Northern Trust Quality score while minimizing the active variance of the index and transaction costs subject to a set of constraints.

Base values and dates: 100 on Jan. 19, 2015

Index types and currencies: Price, net, and gross return in USD, EUR, GBP and CHF
For a complete list please consult the data vendor code sheet on the website.

Dissemination calendar: STOXX Global Calendar

87.4.2. INDEX REVIEW

Constituent selection and weighting: The portfolio construction is performed using Axioma's portfolio optimization software using the Axioma World-wide medium horizon fundamental factor risk model.
The objective of the optimization problem is to maximize the alpha score while penalizing active variance and transaction costs associated with the portfolio. The weightings of 0.1 and 0.3 in the objective function are designed to reflect the relative importance between the objective function terms, as well as the turnover constraint.

Maximize: $\alpha^T w - 0.1*(w - b)^T Q(w - b) - 0.3* \lambda_+^T t_+ - 0.3*\lambda_-^T t_-$

where:
w = Index weights
α = Northern Trust Quality score
b = Parent Index weights
Q = covariance matrix from Axioma Worldwide Medium Horizon Fundamental Factor Risk Model

87.iSTOXX NORTHERN TRUST INDICES

t_+, t_- = Buy and sell trades of the optimized portfolio
λ_+, λ_- = Stock level transaction costs of 1bps

The following constraints aim to ensure diversification, achievement of climate and sustainability targets as well as control for unintended systematic exposures.

Target	Constraint
Active weights	Asset level lower and upper bounds
Active style factor exposures	Lower and upper bounds on active style factor exposure
Active Country weights	Within 1% of Parent Index
Active Industry weights	Within 2% of Parent Index
Active Sector weights	Within 2% of Parent Index
Active Region weights	Within 0.5% of Parent Index
Active Region Industry weights	Within 1% of Parent Index
Maximum Turnover	20% limit on one-way turnover
Carbon Emission Intensity reduction	Minimum 50% reduction from Parent Index
Carbon Risk Rating	Minimum 20% increase from Parent Index
Northern Trust ESG Score	Minimum 20% increase from Parent Index
Active Dividend Yield exposure	Minimum 75% increase over Parent Index
Active Beta	Within 2.5% of Parent Index
Minimum holding	2 bps applied post optimization
Do Not Hold China A, China B or Vietnamese Securities	Maximum weight of China A, China B and Vietnamese securities is 0%
Percentile days to trade/liquidity constraint[110]	Maximum bound using Percentile=10%, Strength=20 parameters

Active Weights: The active weights of assets in the universe are limited by applying lower and upper active weight bounds which are determined using the Northern Trust Quality Ranks, dividend yield, the Northern Trust ESG score and the Northern Trust ESG Exclusion Flag

The Northern Trust Quality Rank consists of three composite categories of signals - Management Efficiency, Profitability, Cash Flow / Financial Strength - each derived from publicly disclosed financial data to identify high quality companies. Additionally, the financial data is grouped into themes in the categories in order to generate the signals – CAPEX Outlay, Asset Growth, Capital Decisions, Business Profitability, Operating Efficiency, Cash Flow.

The Northern Trust ESG Score is designed to rank companies based on their management of material ESG metrics. The Score was designed to align with the Sustainability Accounting Standards Board (SASB) Standards and consistent with the SASB Materiality Matrix as the Standards were designed for investors and focus on only financially material issues based on the industry in which the company operates. The Score is a combination of individual ESG indicators, adjusted for industry membership.

[110] Percentile days to trade constraint implemented from July 2021

87.iSTOXX NORTHERN TRUST INDICES

The Northern Trust ESG Exclusion Flag is designed to use ESG analytical data to potentially mitigate risks and explicitly exclude controversial business involvement or activity. The Screen for Emerging Markets securities consists of the following categories of controversy or business involvement flags – Global Norms, Governance structure, Business Involvement in Tobacco, Private Prisons or Weaponry and Business Involvement in Thermal Coal, Unconventional Oil and Gas or Arctic Oil, including assessing management of associated extraction or processing risks.

Dividend yield is based on a trailing twelve-month calculation, as specified in the Axioma Risk Model Handbook.

In what follows, UPB = the upper active bounds and LPB = lower active bounds.
Northern Trust Quality factor assigns each security in the Parent Index into one of five quality ranks ranging from 1 (high) to 5 (low) as well as a sixth group of names without a factor score. Ranks 1 to 5 have a quality score of 1%, 0.5%, 0%, -0.5%, and -1.0%.

Any security which is either not in the Parent Index or has been screened by the Northern Trust ESG Exclusion Flag or has no dividend yield or is in the lowest (5) Quality Rank or does not have a Quality Rank is not held. For these securities, LPB = UPB = -b. If a security is one of the two highest Quality Ranks (1 or 2), then LPB is the maximum of -b and -0.15% while UPB is the minimum of 1% and the maximum of four times b and 0.65%. If a security is in Quality Ranks 3 or 4, then LPB is the maximum of -b and -0.65% while UPB is the minimum of 0.6% and the maximum of one and a half times b and 0.3%.

An exception is made the above logic for securities with large Parent Index weights. Specifically, if b is greater than 1% and the security is not excluded by the Northern Trust ESG Exclusion Flag and has no dividend yield or is in the lowest quality rank or has not quality score, then LPB is the maximum of -b and -1% while UPB is the maximum of -b and -0.9%. This leads to these securities being held at an underweight.

Active Style Factor Exposures: The exposures of the index to style factors in the Axioma Fundamental Factor Risk Model are restricted to be within a range of the Parent Index exposures for the same factors. The active exposures for Growth, Leverage, Liquidity, Value and Volatility factors must be within 30% of the Parent Index. The active exposures for Momentum and Size factors must be within 10% and 40% of the Parent Index, respectively.

Active Country Weights: The exposure to each country is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

Active Industry/Sector Weights: The exposure to each ICB Industry and Sector is summed up for the Parent Index, and the percentage exposure of the index must be within 2% of those numbers.

Active Region Weights: The exposure to each region is summed up for the Parent Index, and the percentage exposure of the index must be within 0.5% of those numbers. The regions are EMEA, LATAM and APAC. The following STOXX country to region mappings are applied. These mappings could be updated when new countries are added to the Parent Index,

EMEA – CZ, EG, GR, HU, MA, PL, RU, TR, ZA
LATAM – BR, CL, CO, MX
APAC – CN, HK, ID, IN, KR, MY, PH, PK, TH, TW, VN

87.iSTOXX NORTHERN TRUST INDICES

Active Region Industry Weights: The exposure to each combined region-ICB industry is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

Do Not Hold China A, China B or Vietnamese Securities: A maximum weight bound of 0% is applied to China A, China B and Vietnamese securities in the index.

Maximum Turnover: The index has a quarterly one-way turnover[111] limit of 20%

Carbon Emission Intensity Reduction: The carbon emission intensity (ClimateTotalEmissionsIntUSD) of the index from ISS ESG must have a minimum reduction of 50% when compared to the Parent Index as of the review cut-off date. Stocks missing emission intensities are assigned their respective ICB Level 3 Sector harmonic average emission intensities.

Carbon Risk Rating: The carbon risk rating score (CarbonRiskRating[112]) of the index from ISS ESG must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date. Stocks missing carbon risk rating scores are assigned their respective ICB Level 3 Sector median scores.

Northern Trust ESG Score: The ESG score of the index as measured by the Northern Trust ESG score from Northern Trust must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date. Stocks missing the ESG Score are assigned a value of 0.5

Active Dividend Yield: Dividend yield for any asset is capped to 15% and the capped dividend yield of the index must have a minimum increase of 75% when compared to the Parent Index as of the review cut-off date.

Active Beta: The predicted beta of the index computed using the Parent Index and Axioma Risk Model must be within 2.5% of the Parent Index.

Minimum Holding: The minimum weight of each asset in the index is limited to 2bps. This is implemented post optimization by removing weights smaller than 2bps and rescaling the weights.

Percentile days to trade/liquidity constraint: The maximum weight of each asset in the Index is limited to twenty times its daily trading value multiplied by the ratio of the benchmark weight and daily trading value of the representative asset p. The representative asset is the 10th percentile of all assets in the Parent Index when sorted by the ratio of trading value divided by the Parent Index weight.

$$w_k \leq S\, V_k\, b_p / V_p$$

Where:

w_k = the weight of the k-th asset in the portfolio

[111] The index review prior to index launch (October 2020) is calculated without turnover limitations.

[112] Carbon Risk Rating data from ISS begins in 2018. The constraint has been applied to the backtest starting from 2018.

87. iSTOXX NORTHERN TRUST INDICES

ρ = the asset with the 10-th percentile of V_k / b_k

b_k = the weight of the k-th asset in the benchmark

V_k = the daily trading value for the k-th asset

S = 20 (Strength)

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed iteratively minimizing constraint violations at each iteration in the following order: 1) Carbon Risk Rating and Northern Trust ESG score; 2) Active Country weights; 3) Active Industry weights; 4) Active Sector weights; 5) Active Region and Active Region Industry weights; 6) Maximum Turnover; 7) Active Dividend Yield exposure; and 8) Active Beta.

Review frequency: The index is reviewed quarterly one month after the Parent Index (implementation after the close of the third Friday and effective the next dissemination day in January, April, July and October). The weighting factors are calculated based on closing prices in EUR from the Wednesday before second Friday of the review month. Weighting factor = stock's target weight x (1,000,000,000 / closing price of the stock in EUR), rounded to the nearest integer.

The review cut-off dates for Parent Index and Axioma data are the Wednesday before second Friday of the review month. For Northern Trust data, the cut-off date is the first Friday of the review month. For ISS ESG data, the cut-off date is the last dissemination date of the month preceding the review month. The underlying announcements are published after the close of the second Friday of the review month.

87.4.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. If one company is excluded from the iSTOXX Northern Trust Emerging Markets Index, but remains in the STOXX Global TMI, this company will not be excluded from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

87. iSTOXX NORTHERN TRUST INDICES

87.5. iSTOXX NORTHERN TRUST EMERGING MARKETS LOW VOLATILITY CLIMATE ESG INDEX

87.5.1. OVERVIEW

The iSTOXX Northern Trust Emerging Markets Low Volatility Climate ESG Index is designed to track a high-quality universe of companies that exhibit lower overall absolute volatility and to achieve climate and sustainability targets. It is based on the iSTOXX Northern Trust Emerging Markets Index and uses the proprietary Northern Trust Quality™ factor to identify companies that exhibit strength in profitability, management expertise and cash flow. The weighting of each constituent security is determined through an optimization process that is designed to reduce total variance and transaction costs. Measurement of the climate and sustainability targets are via Northern Trust ESG Scores, Northern Trust ESG Exclusion Flags and ISS ESG carbon data.

Universe: iSTOXX Northern Trust Emerging Markets Index

Parent Index: iSTOXX Northern Trust Emerging Markets Index

Weighting scheme: The constituents are weighted to minimize the total variance of the index and transaction costs subject to a set of constraints.

Base values and dates: 100 on Jan 19, 2015

Index types and currencies: Price, net, and gross return in USD, EUR, GBP and CHF
For a complete list please consult the data vendor code sheet on the website.

Dissemination calendar: STOXX Global Calendar

87.5.2. INDEX REVIEW

Constituent selection and weighting: The portfolio construction is performed using Axioma's portfolio optimization.
The objective of the optimization problem is to minimize total variance and transaction costs. The weighting of 1.5 in the objective function are designed to reflect the relative importance between the objective function terms, as well as the turnover constraint.

Minimize: $w^T Q w + 1.5^* \lambda_+^T t_+ + 1.5^* \lambda_-^T t_-$

where:
Q = covariance matrix from the Axioma Worldwide Medium Horizon Fundamental Factor Risk Model
w = Index weights
t+, t- = Buy and sell trades of the optimized portfolio
λ+, λ- = Stock level transaction costs of 1 bps

The following constraints are enforced in order to ensure diversification, achieve of climate and sustainability targets as well as control for unintended systematic exposures.

87.iSTOXX NORTHERN TRUST INDICES

Target	Constraint
Active weights	Asset level lower and upper bounds
Active style factor exposures	Lower and upper bounds on active style factor exposure
Active Country weights	Within 1% of Parent Index
Active Industry weights	Within 2% of Parent Index
Active Sector weights	Within 1% of Parent Index
Active Region weights	Within 1% of Parent Index
Active Region Industry weights	Within 2% of Parent Index
Maximum Turnover	20% limit on one-way turnover
Carbon Emission Intensity reduction	Minimum 50% reduction from Parent Index
Carbon Risk Rating	Minimum 20% increase from Parent Index
Northern Trust ESG Score	Minimum 20% increase from Parent Index
Minimum holding	2 bps applied post optimization
Do Not Hold China A, China B or Vietnamese Securities	Maximum weight of China A, China B and Vietnamese securities is 0%
Percentile days to trade/liquidity constraint[113]	Maximum bound using Percentile=10%, Strength=20 parameters

Active Weights: The active weights of assets in the universe are limited by applying lower and upper active weight bounds which are determined using the Dividend yield, Northern Trust Quality Ranks, the Northern Trust ESG score and the Northern Trust ESG Exclusion Flag.

The Northern Trust Quality Rank consists of three composite categories of signals - Management Efficiency, Profitability, Cash Flow / Financial Strength - each derived from publicly disclosed financial data to identify high quality companies. Additionally, the financial data is grouped into themes in the categories in order to generate the signals – CAPEX Outlay, Asset Growth, Capital Decisions, Business Profitability, Operating Efficiency, Cash Flow.

The Northern Trust ESG Score is designed to rank companies based on their management of material ESG metrics. The Score was designed to align with the Sustainability Accounting Standards Board (SASB) Standards and consistent with the SASB Materiality Matrix as the Standards were designed for investors and focus on only financially material issues based on the industry in which the company operates. The Score is a combination of individual ESG indicators, adjusted for industry membership.

The Northern Trust ESG Exclusion Flag is designed to use ESG analytical data to potentially mitigate risks and explicitly exclude controversial business involvement or activity. The Screen for Emerging Markets securities consists of the following categories of controversy or business involvement flags – Global Norms, Governance structure, Business Involvement in Tobacco, Private Prisons or Weaponry and Business Involvement in Thermal Coal, Unconventional Oil and Gas or Arctic Oil, including assessing management of associated extraction or processing risks.

[113] Percentile days to trade constraint implemented from July 2021

87.iSTOXX NORTHERN TRUST INDICES

Dividend yield is based on a trailing twelve-month calculation, as specified in the Axioma Risk Model Handbook.

In what follows, UPB = the upper active bounds and LPB = the lower active bounds.
Northern Trust Quality factor assigns each security in the Parent Index into one of five quality ranks ranging from 1 (high) to 5 (low) as well as a sixth group of names without a factor score. Ranks 1 to 5 have a quality score of 1%, 0.5%, 0%, -0.5%, and -1.0%.

Any security which is either not in the Parent Index or has been screened by the Northern Trust ESG Exclusion Flag or is in the lowest (5) Quality Rank or does not have a Quality Rank is not held. For these securities, LPB = UPB = -b. If a security is one of the two highest Quality Ranks (1 or 2), then LPB is the maximum of -b and -0.2% while UPB is the minimum of 1.5% and the maximum of four times b and 0.75%. If a security is in Quality Ranks 3 or 4, then LPB is the maximum of -b and -1% while UPB is the minimum of 0.5% and the maximum of one and a half times b and 0.25%.

An exception is made the above logic for securities with large Parent Index weights. Specifically, if b is greater than 1.5% and the security is not excluded by the Northern Trust ESG Exclusion Flag and is in the lowest quality rank or has not quality score, then LPB is the maximum of -b and -1.5% while UPB is the maximum of -b and -1.45%. This leads to these securities being held at an underweight.

Active Style Factor Exposures: The exposures of the index to style factors in the Axioma Fundamental Factor Risk Model are restricted to be within a range of the Parent Index exposures for the same factors. The active exposures for Growth, Leverage, Liquidity, Value and Size factors must be within 30% of the Parent Index. The active exposures for Momentum must be within 20% of the Parent Index.

Active Country Weights: The exposure to each country is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers.

Active Industry/Sector Weights: The exposure to each ICB Industry and Sector is summed up for the Parent Index, and the percentage exposure of the index must be within 2% and 1% of those numbers, respectively.

Active Region Weights: The exposure to each region is summed up for the Parent Index, and the percentage exposure of the index must be within 1% of those numbers. The regions are EMEA, LATAM and APAC. The following STOXX country to region mappings are applied. These mappings could be updated when new countries are added to the Parent Index,

EMEA – CZ, EG, GR, HU, MA, PL, RU, TR, ZA
LATAM – BR, CL, CO, MX
APAC – CN, HK, ID, IN, KR, MY, PH, PK, TH, TW, VN

Active Region Industry Weights: The exposure to each combined region-ICB industry is summed up for the Parent Index, and the percentage exposure of the index must be within 2% of those numbers.

Do Not Hold China A, China B or Vietnamese Securities: A maximum weight bound of 0% is applied to China A, China B and Vietnamese securities in the index.

87.iSTOXX NORTHERN TRUST INDICES

Maximum Turnover: The index has a quarterly one-way turnover[114] limit of 20%

Carbon Emission Intensity Reduction: The carbon emission intensity (ClimateTotalEmissionsIntUSD) of the index from ISS ESG must have a minimum reduction of 50% when compared to the Parent Index as of the review cut-off date. Stocks missing emission intensities are assigned their respective ICB Level 3 Sector harmonic average emission intensities.

Carbon Risk Rating: The carbon risk rating score (CarbonRiskRating[115]) of the index from ISS ESG must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date. Stocks missing carbon risk rating scores are assigned their respective ICB Level 3 Sector median scores.

Northern Trust ESG Score: The ESG score of the index as measured by the Northern Trust ESG score from Northern Trust must have a minimum increase of 20% when compared to the Parent Index as of the review cut-off date. Stocks missing the ESG Score are assigned a value of 0.5

Minimum Holding: The minimum weight of each asset in the index is limited to 2 bps. This is implemented post optimization by removing weights smaller than 2 bps and rescaling the weights.

Percentile days to trade/liquidity constraint: The maximum weight of each asset in the Index is limited to twenty times its daily trading value multiplied by the ratio of the benchmark weight and daily trading value of the representative asset p. The representative asset is the 10th percentile of all assets in the Parent Index when sorted by the ratio of trading value divided by the Parent Index weight.

$$w_k \leq S\, V_k\, b_p / V_p$$

Where:

w_k = the weight of the k-th asset in the portfolio

p = the asset with the 10-th percentile of V_k / b_k

b_k = the weight of the k-th asset in the benchmark

V_k = the daily trading value for the k-th asset

S = 20 (Strength)

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed iteratively minimizing constraint violations at each iteration in the following order: 1) Carbon Risk Rating and Northern Trust ESG score; 2) Carbon Emission Intensity reduction; 3) Active Country weights; 4) Active Industry weights; 5) Active Sector weight; 6) Active style factor exposures, Active Region weights and Active Region Industry weights; 7) Maximum Turnover.

[114] The index review prior to index launch (October 2020) is calculated without turnover limitations.

[115] Carbon Risk Rating data from ISS begins in 2018. The constraint has been applied to the backtest starting from 2018.

87. iSTOXX NORTHERN TRUST INDICES

Review frequency: The index is reviewed quarterly one month after the Parent Index (implementation after the close of the third Friday and effective the next dissemination day in January, April, July and October). The weighting factors are calculated based on closing prices in EUR from the Wednesday before second Friday of the review month. Weighting factor = stock's target weight x (1,000,000,000 / closing price of the stock in EUR), rounded to the nearest integer.

The review cut-off dates for Parent Index and Axioma data are the Wednesday before second Friday of the review month. For Northern Trust data, the cut-off date is the first Friday of the review month. For ISS ESG data, the cut-off date is the last dissemination date of the month preceding the review month. The underlying announcements are published after the close of the second Friday of the review month.

87.5.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced. If one company is excluded from the iSTOXX Northern Trust Emerging Markets Index, but remains in the STOXX Global TMI, this company will not be excluded from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

88. iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

88.1. iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

88.1.1. OVERVIEW

The iSTOXX Europe Longevity Select 50 index aims to select 50 low volatility and high dividend paying stocks among diversified industries from the STOXX Europe 600 index, and weigh them by the inverse of their volatility. The companies are chosen from sectors that might potentially benefit from the ageing population in Europe.

Universe: All stocks from the STOXX Europe 600 index whose Industry Classification, as defined by ICB, falls into one of the following groups:

Industry	ICB Subsector	ICB Code
Telecom, Media & Tech	Computer Services	10101010
Telecom, Media & Tech	Software	10101015
Telecom, Media & Tech	Consumer Digital Services	10101020
Telecom, Media & Tech	Semiconductors	10102010
Infrastructure	Electronic Components	10102015
Telecom, Media & Tech	Production Technology Equipment	10102020
Telecom, Media & Tech	Computer Hardware	10102030
Telecom, Media & Tech	Electronic Office Equipment	10102035
Telecom, Media & Tech	Telecommunications Equipment	15101010
Telecom, Media & Tech	Cable Television Services	15102010
Telecom, Media & Tech	Telecommunications Services	15102015
Pharmaceuticals	Health Care Facilities	20101010
Pharmaceuticals	Health Care Management Services	20101020
Pharmaceuticals	Health Care Services	20101025
Pharmaceuticals	Health Care: Misc.	20101030
Pharmaceuticals	Medical Equipment	20102010
Pharmaceuticals	Medical Supplies	20102015
Pharmaceuticals	Medical Services	20102020
Pharmaceuticals	Biotechnology	20103010
Pharmaceuticals	Pharmaceuticals	20103015
Finance	Banks	30101010
Finance	Consumer Lending	30201020
Finance	Mortgage Finance	30201025
Finance	Financial Data Providers	30201030
Finance	Diversified Financial Services	30202000
Finance	Asset Managers and Custodians	30202010
Finance	Investment Services	30202015
Real Estate	Mortgage REITs: Diversified	30203000
Real Estate	Mortgage REITs: Commercial	30203010
Real Estate	Mortgage REITs: Residential	30203020
Finance	Life Insurance	30301010
Finance	Full Line Insurance	30302010

88.iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

Finance	Insurance Brokers	30302015
Finance	Reinsurance	30302020
Finance	Property and Casualty Insurance	30302025
Real Estate	Real Estate Holding and Development	35101010
Real Estate	Real Estate Services	35101015
Real Estate	Diversified REITs	35102000
Real Estate	Health Care REITs	35102010
Real Estate	Hotel and Lodging REITs	35102015
Real Estate	Industrial REITs	35102020
Real Estate	Infrastructure REITs	35102025
Real Estate	Office REITs	35102030
Real Estate	Residential REITs	35102040
Real Estate	Retail REITs	35102045
Real Estate	Storage REITs	35102050
Real Estate	Timber REITs	35102060
Real Estate	Other Specialty REITs	35102070
Leisure & Luxury	Auto Services	40101010
Leisure & Luxury	Tires	40101015
Leisure & Luxury	Automobiles	40101020
Leisure & Luxury	Auto Parts	40101025
Leisure & Luxury	Vending and Catering Service	40201060
Leisure & Luxury	Consumer Electronics	40203010
Leisure & Luxury	Electronic Entertainment	40203040
Leisure & Luxury	Toys	40203045
Leisure & Luxury	Recreational Products	40203050
Leisure & Luxury	Recreational Vehicles and Boats	40203055
Leisure & Luxury	Photography	40203060
Telecom, Media & Tech	Entertainment	40301010
Telecom, Media & Tech	Media Agencies	40301020
Telecom, Media & Tech	Publishing	40301030
Telecom, Media & Tech	Radio and TV Broadcasters	40301035
Leisure & Luxury	Airlines	40501010
Leisure & Luxury	Travel and Tourism	40501015
Leisure & Luxury	Casinos and Gambling	40501020
Leisure & Luxury	Hotels and Motels	40501025
Leisure & Luxury	Recreational Services	40501030
Leisure & Luxury	Restaurants and Bars	40501040
Infrastructure	Construction	50101010
Infrastructure	Engineering and Contracting Services	50101015
Infrastructure	Building, Roofing/Wallboard and Plumbing	50101020
Infrastructure	Building: Climate Control	50101025
Infrastructure	Cement	50101030
Infrastructure	Building Materials: Other	50101035
Infrastructure	Aerospace	50201010
Infrastructure	Defense	50201020

88.iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

Infrastructure	Electrical Components	50202010
Infrastructure	Electronic Equipment: Control and Filter	50202020
Infrastructure	Electronic Equipment: Gauges and Meters	50202025
Infrastructure	Electronic Equipment: Pollution Control	50202030
Infrastructure	Electronic Equipment: Other	50202040
Resources	Paints and Coatings	50203010
Resources	Plastics	50203015
Resources	Glass	50203020
Infrastructure	Machinery: Industrial	50204000
Infrastructure	Machinery: Agricultural	50204010
Infrastructure	Machinery: Construction and Handling	50204020
Infrastructure	Machinery: Engines	50204030
Infrastructure	Machinery: Tools	50204040
Infrastructure	Machinery: Specialty	50204050
Infrastructure	Trucking	50206010
Infrastructure	Commercial Vehicles and Parts	50206015
Infrastructure	Railroads	50206020
Infrastructure	Railroad Equipment	50206025
Infrastructure	Marine Transportation	50206030
Infrastructure	Delivery Services	50206040
Infrastructure	Commercial Vehicle-Equipment Leasing	50206050
Infrastructure	Transportation Services	50206060
Resources	Diversified Materials	55101000
Resources	Forestry	55101010
Resources	Paper	55101015
Resources	Textile Products	55101020
Resources	General Mining	55102000
Resources	Iron and Steel	55102010
Infrastructure	Metal Fabricating	55102015
Resources	Aluminum	55102035
Resources	Copper	55102040
Resources	Nonferrous Metals	55102050
Resources	Diamonds and Gemstones	55103020
Resources	Gold Mining	55103025
Resources	Platinum and Precious Metals	55103030
Resources	Chemicals: Diversified	55201000
Resources	Chemicals and Synthetic Fibers	55201010
Resources	Fertilizers	55201015
Resources	Specialty Chemicals	55201020
Resources	Integrated Oil and Gas	60101000
Resources	Oil: Crude Producers	60101010
Resources	Offshore Drilling and Other Services	60101015
Resources	Oil Refining and Marketing	60101020
Resources	Oil Equipment and Services	60101030
Resources	Pipelines	60101035

88.iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

Resources	Coal	60101040
Resources	Alternative Fuels	60102010
Resources	Renewable Energy Equipment	60102020
Infrastructure	Alternative Electricity	65101010
Infrastructure	Conventional Electricity	65101015
Infrastructure	Multi-Utilities	65102000
Infrastructure	Gas Distribution	65102020
Infrastructure	Water	65102030
Infrastructure	Waste and Disposal Services	65103035

Weighting scheme: Price-weighted with a weighting factor according to the inverse of the 12-months historical volatility in EUR, and additionally with weighting cap limit of 5% per constituent

Base value and date: 100 as of Mar 22, 2004

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

88.1.2. INDEX REVIEW

Selection list
The review cut-off date is the last trading day of the month preceding the review of the index.

- All stocks in the relevant base universe are screened for their 12-months historical volatility in EUR and their 3-month ADTV in EUR. If either one of these values is not available for a stock, the company is removed from the base universe. If information for a company on its dividend yield is missing, then the missing value is substituted by 0.
- Companies with 3-month ADTV below 5 million EUR are excluded.
- The remaining constituents – composing the selection universe - are grouped into 7 industry clusters following the ICB matching table provided above (Finance, Infrastructure, Leisure & Luxury, Pharmaceuticals, Resources, Real Estate and Telecom & Media & Tech).
- In each group, all constituents are ranked according to the historical dividend yield in descending order and the top x% is selected for the next step, where x is calculated as following:

$x = \sqrt{\frac{50}{N}}$ with N being the total number of stocks in the Selection Universe

If any of the companies with zero dividend yield are remaining at this step, they are excluded.

To create the selection list all remaining stocks are then ranked according to their historical volatility in ascending order and given a rank (with rank 1 being for the lowest volatility stocks).

88.iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

Component selection

- The highest ranked 40 stocks of the selection list are selected
- The remaining 10 stocks are selected from the highest ranked current stocks (already in the index before the review) ranked between 41 and 60
- If the number of stocks selected is still below 50, the highest ranked remaining stocks (not in the index before the review) are selected until there are 50 stocks in the final index
- A maximum of 15 constituents per industry group can be selected (with no minimum numbers of constituents per industry). If one industry group reaches the limit of 15 members, no further companies from that group are eligible for the index inclusion.
- A maximum number of L constituents per country i can be selected. For each country (i), the maximum number of components (L) is calculated as follows, rounded to the nearest integer:

$$L_i = (SXXP_i + 10\%) * N$$

where:

L_i maximum number of components from country i, allowed for inclusion in the iSTOXX Europe Longevity Select 50 Index

$SXXP_i$ weight of the components coming from country i, in the STOXX Europe 600 Index, as of the cutoff date

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index (50)

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 5%.

88. iSTOXX EUROPE LONGEVITY SELECT 50 INDEX

88.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Europe 600, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

89.1. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

89.1.1. OVERVIEW

The iSTOXX Global Transformation Select 30 Index represents an investment targeted at key areas driving deep societal and economic change in our fast-evolving world. The index tracks 30 liquid stocks with low volatility and high dividend yield. Components are selected from a global pool of companies that provide diverse solutions as consumers change their habits and governments and industries adopt new processes and priorities. Selected businesses address trends including improved connectivity, Industry 4.0, sustainable growth and better healthcare. These trends themselves are underpinned by the growing use of technology and connectivity solutions, an increasing focus on environmental sustainability, and healthcare demand; all catalyzed by the COVID-19 crisis and rising public awareness of these drivers brought by the pandemic

Eligible companies are also screened to select leaders in ESG criteria and to exclude those involved in undesirable activities from a responsibility point of view. Industry and country neutrality filters are applied in the selection process to ensure diversification.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the 'sustainable smart city' megatrend.

Universe: The index universe is defined by all the stocks included in the STOXX Developed and Emerging Markets Total Market Index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

89.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model. If for a company this information is not available, an ESG score of 0 is assigned instead. The companies in the parent index are then ranked in descending order in terms of their ESG scores, and the 50% companies with the lowest ESG scores, rounded upwards to the next integer, are excluded from the selection process. In case two companies for a given cutoff date have the same ESG score,

89.iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

priority is given to the one with the with the highest dividend yield. In case two securities have the same ESG score and dividend yield, then priority is given to the one with the lowest volatility (maximum between the 3-month and 12-month historical volatility in EUR).

The remaining companies are then screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco
v. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.
Information for field v) is refreshed on a semi-annual basis in June and December every year, such that for a given company in March and September reviews, revenue information from the previous December and June cutoff date is used. If this information is missing, then the company is excluded from the selection process

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR

- **Global Standards Screening**: compliant with the Global Standard Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons:** Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[116]. STOXX will exclude companies that Sustainalytics identifies to have:

[116] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

89.iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

Weapons:

i) Small Arms:

»>10% revenues from manufacturing and selling assault weapons to civilian customers
»>10% revenues from manufacturing and selling small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii) Military Contracting:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Adult Entertainment:

»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials

Gambling:

»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:

»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:

»>0% revenues from shale energy exploration and/or production

Conventional Oil & Gas:

»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Thermal Coal:

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»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Nuclear Power:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

- **ICB exclusions** (supplementing Product Involvement): Not belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 ICB codes)

- **Revenues**: Revenue exposure equal to or exceeding 25%, from the aggregation of the RBICS sectors associated with "Global Transformation" (please see table below).
-
- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained.

List of RBICS sectors associated with "Global Transformation" for the purposes of component selection:

Nr	Sector	Nr	Sector
1	3D Modeling/Rapid Prototyping Automation Providers	268	Issuance and Securitization Services
2	Access Systems Manufacturing	269	Joint Replacement and Reconstruction Devices

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3	Active and Intermediate Chemicals OEMs	270	Landfill Services
4	Activewear and Outerwear Apparel Production	271	Lasers and Optical Instrument Manufacturing
5	Aerospace and Defense IT Services	272	Latin America Biomass Wholesale Power
6	Air Purification and Filtration Equipment Products	273	Latin America Decentralized Wholesale Power
7	Air, Liquid and Gas Control Equipment Products	274	Latin America Geothermal Wholesale Power
8	Alarm Systems Manufacturing	275	Latin America Hydroelectric Wholesale Power
9	Allergies Biopharmaceuticals	276	Latin America Mixed Alternative Wholesale Power
10	Alt. Energy Autonomous Heavy Duty Truck Makers	277	Latin America Mixed Wholesale Power
11	Alt. Energy Autonomous Transit Vehicle Production	278	Latin America Solar Wholesale Power
12	Alt. Energy Motor Homes and Campers (RVs) Makers	279	Latin America Wind Wholesale Power
13	Alt. Energy Recreation Vehicle Manufacturing	280	Light Emitting Diode Discrete Semiconductors
14	Alternative Energy Boats Makers	281	Liquid and Water Purification/Filtration Products
15	Alternative Energy Car Manufacturers	282	Liver Disorders Biopharmaceuticals
16	Alternative Energy Heavy Duty Trucks Makers	283	Logistics and Supply Chain Service Providers
17	Alternative Energy Infrastructure Construction	284	Lower Respiratory Biopharmaceuticals
18	Alternative Energy Motorcycles Makers	285	Machine Vision and Quality Control Manufacturing
19	Alternative Energy Transit Vehicles Makers	286	Magnetic Passive Electronic Components
20	Alternative Exchanges and ECNs	287	Managed Hosting Services
21	Analytical and Bioanalytical Services	288	Manufacturing Industry Software
22	Antibiotics	289	Mapping/Geographic Information Systems Software
23	Asia (Excluding China) Wireless Services	290	Market Makers and Specialists
24	Asia (Excluding China) Wireline Services	291	Material Handling/Conveyor Equipment Manufacturing
25	Asia Excluding China Mixed Telecommunications	292	Media Download and Streaming Digital Content Sites
26	Assisted Living	293	Medical Equipment Distributors
27	Athletic Footwear Production	294	Medical Treatment Supplies
28	Australia and New Zealand Wireless Services	295	Medicare Managed Care
29	Australia and New Zealand Wireline Services	296	Metal Recycling Providers
30	Australia/New Zealand Mixed Telecom Services	297	Mexico Mixed Telecommunications Services
31	Autoimmune Disorders Biopharmaceuticals	298	Microprocessor (MPU) Semiconductors
32	Automotive and Marine Electronics Manufacturing	299	Middle East and Africa Biomass Wholesale Power
33	Automotive Classifieds and Directories Media/Sites	300	Middle East and Africa Geothermal Wholesale Power
34	Automotive Industry Software	301	Middle East and Africa Mixed Alt. Wholesale Power
35	Autonomous Control Ship Builders	302	Middle East and Africa Mixed Telecom Services
36	Autonomous Drone Manufacturers	303	Middle East and Africa Mixed Wholesale Power
37	Autonomous Drone Parts Manufacturers	304	Middle East and Africa Solar Wholesale Power
38	Autonomous Transport Control Software	305	Middle East and Africa Wind Wholesale Power
39	Autonomous Vehicles Semiconductors	306	Middle East and Africa Wireless Services
40	Bacterial Vaccines	307	Middle East and Africa Wireline Services
41	Battery Charging Equipment Manufacturing	308	Middle East/Africa Decentralized Wholesale Power
42	Bioanalytical Consumables	309	Middle East/Africa Hydroelectric Wholesale Power
43	Biodiesel Fuel Manufacturing	310	Military Batteries Manufacturing
44	Biological Specimen Storage	311	Mixed Apparel and Footwear Production
45	Biologics OEMs	312	Mixed Building/Physical Security Equipment Makers
46	Biotechnology and Genomics (GMO/Hybrids) Products	313	Mixed Electronic Transaction Processing
47	Blockchain Technology	314	Mixed Heavy-Duty and High-End Batteries Makers
48	Breast Cancer Biopharmaceuticals	315	Mixed Industrial Machinery Parts/Equipment Makers
49	Business Intelligence Software	316	Mixed International Telecommunications Services
50	Business Intelligence/Data Warehousing Consulting	317	Mixed Renewable Energy Generation Manufacturing
51	Cable Interconnect Components	318	Mobile Platform Applications Software
52	Canada Biomass Wholesale Power	319	Money Transfer Services
53	Canada Decentralized Wholesale Power	320	Monitoring and Control Sensor/Instrument Products
54	Canada Geothermal Wholesale Power	321	Motion Control and Precision Motors Manufacturing
55	Canada Hydroelectric Wholesale Power	322	Multi-Industry-Specific Factory Machinery Makers
56	Canada Mixed Alternative Wholesale Power	323	Multimedia Semiconductors
57	Canada Mixed Telecommunications Services	324	Multinational Transmission, Dist., and Storage
58	Canada Mixed Wholesale Power	325	Multinational Wholesale Power
59	Canada Solar Wholesale Power	326	Multiple Industry-Specific Software
60	Canada Wind Wholesale Power	327	Multi-Process Assembly Services

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61	Canada Wireline Services	328	Multi-Type Data Storage Hardware Makers
62	Carbon Capture Services and Technologies	329	Multi-Type Drug Discovery Services
63	Carbon Transportation and Sequestration Services	330	Multi-Type Financial Data Content Providers/Sites
64	Cardiology Surgical Devices	331	Multi-Type Passenger Transportation
65	Cardiovascular System Biopharmaceuticals	332	Multi-Type United States Wireless Services
66	Career Classifieds and Directories Media and Sites	333	Musculoskeletal System Biopharmaceuticals
67	Carrier Core (Backbone) Equipment	334	Network Administration Software
68	Carrier Edge Network Management Equipment	335	Network Design and Implementation Consulting
69	Cellular Site Equipment	336	Network Security Access Policy Software
70	Central and Eastern Europe Mixed Telecom Services	337	Network Security Software
71	Central and Eastern Europe Wireless Services	338	Networking Semiconductors
72	Central and Eastern Europe Wireline Services	339	Neurology Biopharmaceuticals
73	Central and South America Mixed Telecom Services	340	Neurology Devices
74	Central and South America Wireless Services	341	Nutraceuticals
75	Central and South America Wireline Services	342	Nutritional Supplement OEMs
76	China Biomass Wholesale Power	343	Oncology Devices
77	China Decentralized Wholesale Power	344	Online Game Websites and Software
78	China Geothermal Wholesale Power	345	Online Gaming Systems
79	China Hydroelectric Wholesale Power	346	Online Marketing and Advertising Support Services
80	China Mixed Alternative Wholesale Power	347	Operation and Maintenance Services
81	China Mixed Telecommunications Services	348	Ophthalmology Biopharmaceuticals
82	China Mixed Wholesale Power	349	Ophthalmology Devices
83	China Solar Wholesale Power	350	Optoelectronics Electronic Components
84	China Wind Wholesale Power	351	Other Alternative Fuel Manufacturers
85	China Wireless Services	352	Other Asia/Pacific Biomass Wholesale Power
86	China Wireline Services	353	Other Asia/Pacific Decentralized Wholesale Power
87	City Guides Content Providers and Sites	354	Other Asia/Pacific Geothermal Wholesale Power
88	Clinical Limited Service CROs	355	Other Asia/Pacific Hydroelectric Wholesale Power
89	Closed Circuit Television (CCTV) Systems/Products	356	Other Asia/Pacific Mixed Alt. Wholesale Power
90	Colocation and Data Center Services	357	Other Asia/Pacific Mixed Wholesale Power
91	Commercial Bank and Credit Union Software	358	Other Asia/Pacific Solar Wholesale Power
92	Commercial Specialty Engineering Contractors	359	Other Asia/Pacific Wind Wholesale Power
93	Commodities Trading Services	360	Other Automation Support Product Manufacturing
94	Communication and Collaboration Content Sites	361	Other Bacterial Infections Biopharmaceuticals
95	Communications Infrastructure Software	362	Other Biopharmaceutical OEMs
96	Compressor and Pumping Equipment Manufacturing	363	Other Chemistry Clinical Diagnostics Devices
97	Computer Aided Design (CAD) Software	364	Other Classifieds and Directories Media and Sites
98	Console Games Software	365	Other Communications Semiconductors
99	Conventional Autonomous Transit Vehicles Makers	366	Other Core Infrastructure Equipment
100	Conventional Engine Autonomous Truck Makers	367	Other Discrete Semiconductors
101	Credit and Information Bureaus	368	Other Drug Delivery Devices
102	Cryptocurrency Mining	369	Other Electric Motors and Motion Control Products
103	Cryptocurrency Trading and Exchanges	370	Other Endocrinology/Metabolism Biopharmaceuticals
104	Cryptomining Semiconductors	371	Other Environmental Control Machine Manufacturing
105	Customer Premises Network Security Equipment	372	Other Finance Industry Software
106	Data Storage Drives and Peripherals	373	Other Front End Processing Equipment Makers
107	Data Storage Infrastructure Software	374	Other Games Software
108	Data Storage Media	375	Other Handheld and Smart Phone Software
109	Data Transport Carrier Services	376	Other Health Plans
110	Dermatology Biopharmaceuticals	377	Other Healthcare and Pharma Industry Software
111	Design, Integration and Implementation Consulting	378	Other Hospitals
112	Diabetes Diagnostic Testing Devices	379	Other Hosting Services
113	Diabetes Drug Delivery Devices	380	Other Immunology Biopharmaceuticals
114	Diabetes Home Monitoring Devices	381	Other Infrastructure Construction
115	Diabetes Infusion Drug Delivery Devices	382	Other Interconnect Components
116	Dietary and Naturopathic Supplements	383	Other Interconnect Fabrication Services
117	Disk Storage Systems	384	Other International Energy Utilities
118	Diverse Construction and Engineering Services	385	Other Internet Health and Personal Care Retail
119	Diversified Bioanalytical Instruments	386	Other Local Area Networking Equipment

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120	Diversified Biopharmaceuticals	387	Other Long-Term Care Facilities
121	Diversified Brokerage Services	388	Other Medical Supplies
122	Diversified Content Management Software	389	Other Memory Semiconductors
123	Diversified Contract Manufacturing Organizations	390	Other Metal Processing and Recycling Providers
124	Diversified Contract Research Organizations	391	Other Network Software
125	Diversified Development and Manufacturing Services	392	Other Nonvolatile Memory Semiconductors
126	Diversified Electronic Security Equipment	393	Other Oncology Biopharmaceuticals
127	Diversified Enterprise Resource Planning Software	394	Other Optoelectronics Discrete Semiconductors
128	Diversified General Waste Collection	395	Other Orthopedics Devices
129	Diversified Hazardous Materials Disposal	396	Other Passive Capacitor Electronic Components
130	Diversified Healthcare Business Management	397	Other Pharmaceuticals Distributors
131	Diversified Healthcare Distributors	398	Other Pipeline and Energy Storage Services
132	Diversified Healthcare Services	399	Other Power Analog and Mixed Signal Semiconductors
133	Diversified Industrial Manufacturing	400	Other Processor Semiconductors
134	Diversified IT Infrastructure Software	401	Other Programmable Logic and ASIC Semiconductors
135	Diversified Medical Device OEMs	402	Other Specialized Semiconductors
136	Diversified Medical Devices and Instruments	403	Other Sporting and Athletic Goods
137	Diversified Patient Care	404	Other Surgical Devices
138	Diversified Power Generation Equipment Makers	405	Other Test and Measurement Equipment
139	Document Management Software	406	Other United States Energy Utilities
140	Drug Delivery Technology Development	407	Other Waste Services
141	Drug Development Software	408	Other Wide Area Networking (WAN) Equipment
142	Drug Lead Discovery, Validation and Optimization	409	Pan-America Wireless Services
143	Drug Target Discovery and Validation	410	Pan-Americas Mixed Telecommunications Services
144	Ear, Nose and Throat (ENT) Devices	411	Pan-Americas Mixed Wholesale Power
145	E-Commerce Service Providers	412	Pan-Asia/Pacific Mixed Telecommunications Services
146	Educational Software	413	Pan-Asia/Pacific Wholesale Power
147	Electric Motors Manufacturing	414	Pan-Europe Mixed Telecommunications Services
148	Electric Vehicle Batteries Manufacturing	415	Paper and Textile Automation Providers
149	Electric Vehicle Charging Stations	416	Passenger Rail Transportation
150	Electrical Systems and Equipment Manufacturing	417	Patient Data Management Software
151	Electricity Infrastructure Construction	418	Payment Processing Software
152	Electronic Gaming Equipment	419	Peripheral Semiconductors
153	Electronic Gaming/Entertainment Electronics Makers	420	Pharmacy Benefit Management (PBM)
154	Electronic Materials Manufacturing	421	Photovoltaic and Solar Cells and Systems Providers
155	Electronic Payment Processing	422	Pituitary Gland Disorders Biopharmaceuticals
156	Electronic Security Identification Equipment	423	Plastic and Reconstructive Surgery Devices
157	Electronic System Security Equipment	424	Plastics and Rubber Automation Providers
158	Electronic Waste Services	425	Point of Care Testing Kits
159	Emission Control Services and Technologies	426	Point-of-Sale (POS) Terminal Manufacturing
160	Energy Efficient Lighting and LED Manufacturing	427	Power Generation Infrastructure Construction
161	Energy Industry Software	428	Power Generation/Support Products Manufacturing
162	Energy Plant Infrastructure Construction	429	Power Transmission and Distribution Products
163	Enterprise Middleware Software	430	Power, Control and Mixed Signal Semiconductors
164	Enterprise Security Management Software	431	Preclinical Limited Service CROs
165	Environmental Consulting	432	Printed Circuit Board/Wiring Board Manufacturing
166	Environmental Services	433	Process Plants, Utilities and Energy Construction
167	Europe Biomass Wholesale Power	434	Programmable Logic Device Semiconductors
168	Europe Decentralized Wholesale Power	435	Radiology Devices
169	Europe Geothermal Wholesale Power	436	Real Estate Classifieds and Directories Sites
170	Europe Hydroelectric Wholesale Power	437	Recycling Services
171	Europe Mixed Alternative Wholesale Power	438	Residential Mortgage REITs
172	Europe Mixed Wholesale Power	439	Residential Property Owners
173	Europe Solar Wholesale Power	440	Residential Specialty Engineering Contractors
174	Europe Wind Wholesale Power	441	Respiratory Devices
175	Express Couriers	442	Retail Brokerage Services
176	Finance and Banking Systems Production	443	Retail Industry Software
177	Fixed Microwave Systems Equipment	444	RF Analog and Mixed Signal Semiconductors

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178	Flash Memory Semiconductors	445	Safety and Sterilization Medical Supplies
179	Flexible Circuit Manufacturing	446	Sales Force Automation (SFA) Software
180	Food Delivery Services	447	Sanitary and Personal Care Paper Products
181	Food Production Machinery Manufacturing	448	Scientific Analytical Instruments
182	Fresh Fruits and Vegetables Retail	449	Securities Exchanges
183	Fuel Cell Equipment and Technology Providers	450	Security and Identification Semiconductors
184	Full Service CROs	451	Security and Management Consulting
185	Garbage Services	452	Security Systems Services
186	Gastrointestinal Tract Biopharmaceuticals	453	Semiconductor Assembly and Packaging Services
187	General Analog and Mixed Signal Semiconductors	454	Semiconductor Foundry Services
188	General and Acute Hospitals	455	Semiconductor Packaging and Testing Services
189	General Carrier Edge (Access) Equipment	456	Semiconductor Testing Services
190	General Clinical Diagnostics Devices	457	Semiconductors Distributors
191	General Clinical Laboratories	458	Server Computer Systems
192	General Consumer Content Providers	459	Sewage and Water Infrastructure Construction
193	General Customer Premises Equipment (CPE)	460	Skilled Nursing Facility (Nursing Home)
194	General Delivery and Logistics Providers	461	Smart Grid Technology and Smart Meter Products
195	General Enterprise Management Software	462	Smart Phone Manufacturing
196	General Entertainment Content Providers and Sites	463	Soil Remediation
197	General Factory Automation Makers	464	Solid Waste Recycling Equipment Manufacturing
198	General Infectious Diseases Biopharmaceuticals	465	Specialized Clinical Laboratories
199	General Information Technology (IT) Consulting	466	Specialized Patient Care
200	General Infrastructure and Network Consulting	467	Sporting Goods Stores
201	General Internet and Online Services	468	Supply Chain ERP Software
202	General Personal Care and Cleaning Products Makers	469	Surgical Biopharmaceuticals
203	General Purpose Test and Measurement Equipment	470	Surgical Robotic Systems
204	General Security Services	471	Team, Individual and Other Sports Manufacturing
205	General Support Activity Providers for Agriculture	472	Telemedicine
206	General Surgical Devices	473	Test and Measurement Communications Equipment
207	Genetic Molecular Diagnostic Test Kits	474	Test, Measurement and Metrology Equipment Makers
208	Geothermal Energy Equipment Manufacturing	475	Thermal and Chemical Processing Machinery Makers
209	Global Energy Utilities	476	Trade Execution Services
210	Global Positioning Systems (GPS) Manufacturing	477	Trading Software
211	Government and Public Service Industry Software	478	Traditional Vehicle Batteries Manufacturing
212	Government IT Services	479	Traffic Safety and Management Equipment Products
213	Greenhouse Gas Emission Services	480	Transfusion Medicine Devices
214	Grocery Delivery Services	481	Transportation Construction
215	Handheld and Smart Phone Games Software	482	Travel Publishers
216	Hazardous/Industrial Waste Disposal	483	Turnkey Assembly Manufacturing Services
217	Healthcare Consulting	484	Type 1 Diabetes Biopharmaceuticals
218	Healthcare IT Services	485	Type 2 Diabetes Biopharmaceuticals
219	Healthcare Management Software	486	United States Biomass Wholesale Power
220	Healthcare Operations Support Software	487	United States Decentralized Wholesale Power
221	Healthcare Staffing and Recruiting	488	United States Geothermal Wholesale Power
222	Heart Disorders Biopharmaceuticals	489	United States Hydroelectric Wholesale Power
223	Heavy-Duty Industrial Batteries Manufacturing	490	United States Mixed Alternative Wholesale Power
224	Hematological Oncology Biopharmaceuticals	491	United States Satellite Services
225	Hematology Biopharmaceuticals	492	United States Solar Wholesale Power
226	Home and Office Virtual Reality Software	493	United States Transmission, Dist., and Storage
227	Home Healthcare	494	United States Video and Television Services
228	Home Testing Clinical Diagnostics Devices	495	United States Wind Wholesale Power
229	Household Robot Makers	496	United States Wireless Business Data Services
230	Human Interface Peripherals	497	United States Wireline Business Data Services
231	Hydroelectric Power Generation Equipment Providers	498	United States Wireline Data Services
232	Hydrogen Fuel Manufacturing	499	Urology Biopharmaceuticals
233	IC-Level Electronic Design Software	500	US Mixed Wholesale Power
234	Image Sensor and Image Capture Semiconductors	501	US Voice Over IP Telephony (VoIP) Services
235	Imaging Laboratories	502	Utilities Industry Software
236	Immune Deficiency Disorders Biopharmaceuticals	503	Utility Infrastructure Construction

89.iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

237	Immunoassays Clinical Diagnostics Devices	504	Utility Meter Manufacturing
238	Industrial Construction Contractors	505	Vascular Disorders Biopharmaceuticals
239	Industrial Robots and Robotic Assembly Line Makers	506	Vehicle Autonomous Control Electronics Makers
240	Information Storage Systems	507	Vehicle Autonomous Control Software
241	Infrastructure Consulting and Design Services	508	Video Multimedia Semiconductors
242	Infusion Therapy Devices	509	Viral Biopharmaceuticals
243	Inspection and Detection Systems Manufacturing	510	Virtual Reality Design and Engineering Software
244	Institutional Brokerage Services	511	Virtual Reality Equipment
245	Insulation Manufacturing	512	Volatile Memory Semiconductors
246	Insurance Software	513	Wafer Blank Makers and Equipment Manufacturing
247	Intermediary Metabolism Biopharmaceuticals	514	Wafer Processing Subsystem Equipment Manufacturing
248	International Electricity Generator Utilities	515	Waste-to-Energy Services
249	International Fixed Satellite Services	516	Wastewater Residual Management
250	International Mobile Satellite Services	517	Wastewater Treatment Services
251	Internet Accessories Retail	518	Water Treatment Agents Manufacturing
252	Internet Apparel Retail	519	Wave Energy Equipment Manufacturing
253	Internet Automotive Parts Sales	520	Wearable Technology
254	Internet Building Materials / Garden Supply Retail	521	Web Navigation Sites and Software
255	Internet Department Stores	522	Web Portal Sites and Software
256	Internet Discount Stores	523	Web Search Sites and Software
257	Internet Electronics Retail	524	Weight Management Biopharmaceuticals
258	Internet Entertainment Retail	525	Welding and Joining Tool Manufacturing
259	Internet Footwear Retail	526	Western Europe Mixed Telecommunications Services
260	Internet Furniture and Home Furnishings Retail	527	Western Europe Wireless Services
261	Internet Motor Vehicle Sales	528	Western Europe Wireline Services
262	Internet Office Supplies Retail	529	Wind Energy Equipment Manufacturing
263	Internet Off-Price Retail	530	Wireless and Wi-Fi Equipment
264	Internet Pet and Pet Supply Retail	531	Wireless Infrastructure Services
265	Internet Pharmacies and Drug Retail	532	Wireline Equipment
266	Internet Warehouse / Superstore Retail	533	Wireline Infrastructure Services
267	Investment Management/Brokerage Software	534	Wires and Cables Manufacturing

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

3) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).
4) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Country
   For each country i, a maximum number of components K is calculated as follows and rounded to the nearest integer, such that diversification is ensured and the country profile of the iSTOXX Global Transformation Select 30 Index does not deviate much from the corresponding weights of the STOXX Global 3000 Index. Moreover, for countries, that are represented in the STOXX Global 3000 Index, with a weight exceeding 20%, a minimum number of components L is also calculated in a similar fashion:

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

$$K_i = (SXGBM_i + 10\%) * N$$

$$L_i = (SXGBM_i - 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Transformation Select 30 Index

L_i minimum number of components from country i, to be included in the iSTOXX Global Transformation Select 30 Index

$SXGBM_i$ weight of the components coming from country i, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Transformation Select 30 Index (30)

b. Industry

Maximum of 6 components out of the total 30 coming from each of the 11 ICB industries.

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($Z = Z + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*

σ_i maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR

N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

Additionally, components are capped at a maximum weight of 10%.

89.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

89.2. iSTOXX GLOBAL TRANSFORMATION SELECT 30 NR RISK CONTROL 10% INDEX

89.2.1. OVERVIEW

The iSTOXX Global Transformation Select 30 NR Risk Control 10% Index incorporates a target volatility concept. Whereas the risk profile of the underlying index is the uncontrolled outcome of the existing index concept, the Risk Control Index controls for risk by aiming for a defined target volatility level. In order to control for risk, the index shifts between a risk free money market investment and a risky asset (measured by the respective underlying equity index).

Base Values and Dates: 100 as of 14 September 2012.

Underlying Index: iSTOXX Global Transformation Select 30 EUR Net Return Index

Index Rounding: 2 d.p.

Dissemination Calendar: STOXX Europe Calendar.

Index Types and Currencies: Excess Return in EUR.

89.2.2. INDEX REVIEW

The Index Level is determined by:

$$IV_t = IV_{t-1} \cdot \left[1 + w_{t-1}\left(\frac{UL_t}{UL_{t-1}} - 1\right) - w_{t-1}\left(IR_{t-1}\frac{ACT(t-1,t)}{360}\right)\right]$$

Where:

IV_t = Excess Return Index level on index level determination date t
IV_{t-1} = Excess Return Index level on index level determination date t-1 (unrounded value used)
w_{t-1} = Weight allocation to underlying index effective on day t-1
UL_t = Index value of underlying index on day t
UL_{t-1} = Index value of underlying index on day t-1
IR_{t-1} = €STR rate on index level determination date t-1[117]
Act(t-1,t) = Number of calendar days between calculation day t-1 and calculation day t

The index is to be reported and disseminated rounded to 2 decimal places.

[117] The index will be calculated using €STR that is published on day T in respect of day T-1, meaning $€STR_{t-2}$ is used in the above formula.

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

89.2.3. DETERMINATION OF THE TARGET WEIGHT

On any Index Level Dissemination Date t, the Target Weight shall be determined as follows:

$$Tgtw_t = \frac{TgtVol}{MaxRealizedVol_{t,(21,63)}}$$

Where $MaxRealizedVol_{t,(21,63)}$ is the maximum of realized volatilities measured over 21 and 63 days.

$$RealizedVol_{t,n} = \sqrt{\frac{252}{(n-4)\times 5} \cdot \sum_{i=0}^{n-5-1} \left[ln\left(\frac{UL_{t-i}}{UL_{t-i-5}}\right)\right]^2}$$

With $n = 21, 63$.

89.2.4. DETERMINATION OF THE EQUITY WEIGHT AND INDEX REBALANCING DAYS

The index is rebalanced daily and the Equity Weight is calculated as follows:

$$w_t = Min(Cap, Tgtw_{t-2})$$

Where: Cap = 150%

89. iSTOXX GLOBAL TRANSFORMATION SELECT 30 INDEX

89.3. iSTOXX GLOBAL TRANSFORMATION SELECT 30 NR RISK CONTROL 10% DECREMENT 4% INDEX

89.3.1. OVERVIEW

The iSTOXX Global Transformation Select 30 NR Risk Control 10% Decrement 4% Index replicates the performance of the excess return version of the iSTOXX Global Transformation Select 30 NR Risk Control 10% Index while assuming a constant dividend markdown. Over the course of a year 4% of the performance of the underlying index is gradually subtracted according to the corresponding day-to-day year fraction.

Base value and date: 100 on September 14, 2012

Underlying Index: iSTOXX Global Transformation Select 30 NR Risk Control 10% (EUR Excess Return) Index

Decrement Amount (in Percentage): 4

Dissemination calendar: STOXX Europe calendar

Index Type and Currencies: EUR, Price

89.3.2. INDEX FORMULA

The Index values are calculated as follows:

$$IV_t = IV_{t-1} \times \left(\frac{U_t}{U_{t-1}} - D\frac{d_{t-1,t}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	Underlying Index level on day t (iSTOXX Global Transformation Select 30 NR Risk Control 10% (EUR Excess Return) – IXGTRC10)
U_{t-1}	Underlying Index level on day t-1 (iSTOXX Global Transformation Select 30 NR Risk Control 10% (EUR Excess Return) – IXGTRC10
$d_{t-1,t}$	Calendar days between dissemination day t-1 (excluding) and t (including)
D	decrement amount in percentage (4%)

89.3.3. ONGOING MAINTENANCE

All corporate actions and events handled in the iSTOXX Global Transformation Select 30 NR Index – no additional precautions needed.

90. iSTOXX GLOBAL FINTECH 30 INDEX

90.1. iSTOXX GLOBAL FINTECH 30 INDEX

90.1.1. OVERVIEW

The iSTOXX Global Fintech 30 Index is comprised of the 30 largest companies associated with financial technology (fintech). These businesses use technology to change how financial services are offered to end customers, and/or to boost the competitive edge of traditional financial services providers by improving efficiencies and driving new products and solutions. As the evolution of fintech progresses, and its support from governments and regulators increases, these companies are well-positioned to benefit from the long-term trend towards fintech, which may have a substantial impact on their revenues in the future.

Universe: The STOXX Global Fintech index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is free-float market capitalization-weighted.

Base values and dates: 100 on Jun 24, 2013.

Index types and currencies: Price, net return and gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar

90.1.2. INDEX REVIEW

Composition list: Companies in the parent Universe are screened for their 3-month ADTV in EUR and only those with greater than EUR 5,000,000 will be eligible for selection. The remaining companies are ranked in descending order in terms of free-float market cap, observed as of review cut-off date, and the top 30 are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting cap factors: Components are capped at a maximum weight of 10%.

90.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

90.iSTOXX GLOBAL FINTECH 30 INDEX

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

91. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE LARGE 100 INDEX

91.1. iSTOXX AI GLOBAL ARTIFICIAL INTELLIGENCE LARGE 100 INDEX

91.1.1. OVERVIEW

The iSTOXX AI Global Artificial Intelligence Large 100 Index allows a targeted investment in 100 companies from a wide range of industries that invest heavily in the development of new AI technologies. These companies are therefore considered to be well-positioned to benefit from the increased adoption of AI technologies.

Universe: The index universe is defined by all the stocks included in the STOXX AI Global Artificial Intelligence ADTV5 Index, as observed on the review effective date.

Weighting scheme: The index is free-float market capitalization-weighted.

Base values and dates: 100 on March 15, 2013.

Index types and currencies: Price, net return and gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar

91.1.2. INDEX REVIEW

Composition list: Companies in the parent universe are ranked in descending order in terms of free-float market cap, observed as of review cut-off date, and the top 100 are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting cap factors: Components are capped at a maximum weight of 10%.

91.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

92. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

92.1. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

92.1.1. OVERVIEW

The EURO iSTOXX ESG Weighted Additional Exclusions 50 Index tracks the performance of the 50 largest securities from the EURO STOXX Index that are not involved in tobacco production and distribution, fossil fuels and military contracting. Industry neutrality filters are applied in the selection process to ensure diversification.

STOXX will exclude companies that are not compliant based on the Sustainalytics Global Standards Screening assessment, have Severe Controversy Rating (Category 5) or are involved in Controversial Weapons. Moreover, companies involved in Tobacco Production and Distribution, Conventional and Unconventional Oil & Gas, Thermal Coal and Military Contracting Weapons are also not eligible for selection.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors determined according to the constituents' ESG ranks

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

92.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index.

On the review cut-off date, the securities in the selection list are screened for the following indicators:

i. ESG scores, as sourced from Sustainalytics' ESG Rating dataset
ii. Product involvement in: Tobacco Production or Distribution, Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Thermal Coal and Military Contracting Weapons

If any of the fields i) to ii) above have missing information for a stock, then that company is not eligible for selection.

92. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

The Selection list constitutes of all remaining stocks that fulfil the conditions below, in the order they are listed:

- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS). Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.
- Do not have Severe Controversy Rating (Category 5). Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.
- Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons

  » The ultimate holding company owns >10% of voting rights of an involved company

  » >10% of voting rights of a company is owned by the involved company
- Securities with ESG scores of below 50 are not eligible for selection
- Not have any Product Involvement in the following areas[118]:

Tobacco:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from manufacturing tobacco products
»>5% revenues from the distribution and/or retail sale of tobacco products

Conventional Oil & Gas:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>0% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

[118] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

92. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

Unconventional Oil & Gas

iv) Arctic Oil and Gas Exploration:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

v) Oil Sands:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

vi) Shale Energy:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Military Contracting:

STOXX will exclude companies that Sustainalytics identifies to have:
»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons

Composition list:

Each of the remaining securities in the selection list are allocated to one of the ten industry groupings according to their ICB code as follows:

Grouping	ICB codes
Oil & Gas	Industry 1
Basic Materials	Industry 1000
Industrials	Industry 2000
Consumer Goods	Industry 3000
Health Care	Industry 4000
Consumer Services	Industry 5000
Telecommunications	Industry 6000
Utilities	Industry 7000
Financials	Industry 8000
Technology	Industry 9000

Effective with September 2020 review, each of the remaining securities in the selection list are allocated to one of the ten industry groupings according to their ICB code as follows:

92. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industries 30 and 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

The securities are then ranked in decreasing order of their free float market capitalization. In case two companies for a given cut-off date have the same free float market capitalization, priority is given to the one with the highest ESG score. The 50 largest securities are then selected, with a maximum of 8 components out of the total 50 coming from each of the 10 industrial groupings.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The selected 50 securities are ranked in ascending order of their ESG scores, so that the securities with the lowest ESG scores are ranked at the top, and those with the highest ratings at the bottom of the list. In case two securities have the same ESG score for a given cut-off date, priority is given to the one with higher free float market capitalization (i.e. the larger security is given a higher ranking, and larger weight). The securities are then issued linearly increasing weights:

$$w_1 = 0.5\%$$

$$step = \frac{100\% - 50 * w_1}{49 * 25} = \frac{3\%}{49}$$

$$w_i = w_1 + step * (i - 1)$$

$w$here:
w_1 weight of the security with the lowest ESG score
i i^{th} security
w_i weight of the ith security

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

92. EURO iSTOXX ESG WEIGHTED ADDITIONAL EXCLUSIONS 50 INDEX

92.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

93. EURO iSTOXX 50 ARTIFICIAL INTELLIGENCE TILTED INDEX

93.1. EURO iSTOXX 50 ARTIFICIAL INTELLIGENCE TILTED INDEX

93.1.1. OVERVIEW

The EURO iSTOXX 50 Artificial Intelligence Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest US and Japanese securities form the STOXX Global Artificial Intelligence Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Artificial Intelligence Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers to achieve 80:20 ratio for the EURO STOXX 50 company weights versus the 10 AI company weights within the index.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

93.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and only US and Japanese securities from the STOXX Global Artificial Intelligence Index constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list, Japanese and US companies from the STOXX Global Artificial Intelligence Index, are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities are selected. The resulting EURO iSTOXX 50 Artificial Intelligence Tilted Index comprises 60 securities, 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Artificial Intelligence Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers to achieve 80:20 weight ratio for the EURO STOXX 50 company weights versus 10 AI company weights within the EURO iSTOXX 50 Artificial Intelligence Tilted Index.

93. EURO iSTOXX 50 ARTIFICIAL INTELLIGENCE TILTED INDEX

The 10 AI company weights are capped at 25% within the AI company weights, hence capped at 5% in the final index (0.2 x 25%).

$$w_i = 0.8\ x\ \frac{ffmcap_i}{\sum_{j=1}^{50} ffmcap_j}$$

$w_k = 0.2\ x\ \frac{ae_k * ffmcap_k}{\sum_{l=1}^{10} ae_l * ffmcap_l}$; weight capped at 25% within the AI companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index
k, l	the 10 selected securities from the STOXX Global Artificial Intelligence Index
w_k	weight of the 10 AI securities in the new index (max 5% within new index)
$ffmcap$	free float market capitalization
ae_k	the total revenue exposure of company k to the Artificial Intelligence RBICS sectors[119]

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

93.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[119] Please refer to the STOXX Index Guide for the full list of Artificial Intelligence RBICS sectors used for the STOXX Global Artificial Intelligence Index

94. EURO iSTOXX 50 ELECTRIC VEHICLES TILTED INDEX

94.1. EURO ISTOXX 50 ELECTRIC VEHICLES TILTED INDEX

94.1.1. OVERVIEW

The EURO iSTOXX 50 Electric Vehicles Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest securities form the STOXX Global Electric Vehicles & Driving Technology Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Electric Vehicles & Driving Technology Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization and revenue exposure to the Electric Vehicles & Driving Technology theme.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

94.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the STOXX Global Electric Vehicles & Driving Technology Index that have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list from the STOXX Global Electric Vehicles & Driving Technology Index, are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities that are not already part of the EURO STOXX 50 are selected. The resulting EURO iSTOXX 50 Electric Vehicles Tilted Index comprises of 60 securities: 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Electric Vehicles & Driving Technology Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from STOXX Global Electric Vehicles & Driving Technology Index (EV companies) 20% of the EURO iSTOXX 50 Electric Vehicles Tilted Index.

94. EURO iSTOXX 50 ELECTRIC VEHICLES TILTED INDEX

The 10 EV company weights are capped at 25% within the EV company weights, hence capped at 5% in the final index (20% x 25%).

$$w_i = 0.8 \text{ x } \frac{\text{ffmcap}_i}{\sum_{j=1}^{50} \text{ffmcap}_j}$$

$$w_k = 0.2 \text{ x } \frac{\text{ev}_k * \text{ffmcap}_k}{\sum_{l=1}^{10} \text{ev}_l * \text{ffmcap}_l}$$; weight capped at 25% within the EV companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index
k, l	the 10 selected securities from the STOXX Global Electric Vehicles & Driving Technology Index
w_k	weight of the 10 EV securities in the new index (max 5% within new index)
$ffmcap$	free float market capitalization
ev_k	maximum revenue exposure of company k to one of the three RBICS sectors groups “Electric Vehicle Manufacturers”, “Electric Vehicle Battery Suppliers” and “Electric Vehicle Manufacturers’ Supply Chain” [120]

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

94.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[120] Please refer to the STOXX Index Guide for the full list of RBICS sectors used for the calculation of the revenue exposures in the STOXX Global Electric Vehicles & Driving Technology Index

95. EURO iSTOXX 50 SHARING ECONOMY TILTED INDEX

95.1. EURO ISTOXX 50 SHARING ECONOMY TILTED INDEX

95.1.1. OVERVIEW

The EURO iSTOXX 50 Sharing Economy Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest securities form the STOXX Global Sharing Economy Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Sharing Economy Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization and revenue exposure to the Sharing Economy theme.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

95.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the STOXX Global Sharing Economy Index that have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list from the STOXX Global Sharing Economy Index, are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities that are not already part of the EURO STOXX 50 are selected. The resulting EURO iSTOXX 50 Sharing Economy Tilted Index comprises 60 securities: 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Sharing Economy Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from STOXX Global Sharing Economy Index (SH companies) 20% of the EURO iSTOXX 50 Sharing Economy Tilted Index.

95. EURO iSTOXX 50 SHARING ECONOMY TILTED INDEX

The 10 SH company weights are capped at 25% within the SH company weights, hence capped at 5% in the final index (20% x 25%).

$$w_i = 0.8 \text{ x } \frac{\text{ffmcap}_i}{\sum_{j=1}^{50} \text{ffmcap}_j}$$

$$w_k = 0.2 \text{ x } \frac{sh_k * \text{ffmcap}_k}{\sum_{l=1}^{10} sh_l * \text{ffmcap}_l}$$; weight capped at 25% within the SH companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index
k, l	the 10 selected securities from the STOXX Global Sharing Economy Index
w_k	weight of the 10 SH securities in the new index (max 5% within new index)
$ffmcap$	free float market capitalization
sh_k	revenue exposure of company k to the "Sharing Economy" RBICS sectors [121]

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

95.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[121] Please refer to the STOXX Index Guide for the full list of RBICS sectors used for the calculation of the revenue exposures in the STOXX Sharing Economy Index

96. EURO iSTOXX 50 FUTURE HEALTHCARE TILTED INDEX

96.1. EURO ISTOXX 50 FUTURE HEALTHCARE TILTED INDEX

96.1.1. OVERVIEW

The EURO iSTOXX 50 Future Healthcare Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest securities form the STOXX Global Breakthrough Healthcare Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Breakthrough Healthcare Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

96.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the STOXX Global Breakthrough Healthcare Index that have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list from the STOXX Global Breakthrough Healthcare Index, are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities that are not already part of the EURO STOXX 50 are selected. The resulting EURO iSTOXX 50 Future Healthcare Tilted Index comprises 60 securities: 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Breakthrough Healthcare Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from STOXX Global Breakthrough Healthcare Index (HC companies) 20% of the EURO iSTOXX 50 Future Healthcare Tilted Index.

96. EURO iSTOXX 50 FUTURE HEALTHCARE TILTED INDEX

The 10 HC company weights are capped at 25% within the HC company weights, hence capped at 5% in the final index (20% x 25%).

$$w_i = 0.8 \text{ x } \frac{\text{ffmcap}_i}{\sum_{j=1}^{50} \text{ffmcap}_j}$$

$$w_k = 0.2 \text{ x } \frac{\text{ffmcap}_k}{\sum_{l=1}^{10} \text{ffmcap}_l}$$; weight capped at 25% within the HC companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index
k, l	the 10 selected securities from the STOXX Global Breakthrough Healthcare Index
w_k	weight of the 10 HC securities in the new index (max 5% within new index)
$ffmcap$	free float market capitalization

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

96.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

97. EURO iSTOXX 50 ESG FOCUS MONTHLY KRW HEDGED INDEX

97.1. EURO iSTOXX 50 ESG FOCUS MONTHLY KRW HEDGED INDEX

97.1.1. OVERVIEW

The EURO iSTOXX 50 ESG Focus Monthly KRW Hedged Index measures the performance of the EURO iSTOXX 50 ESG Focus Index while at the same time eliminating EURKRW currency fluctuations through hedging. The index, therefore, combines the performance of the underlying index with a hypothetical rolling investment into one-month EURKRW forward contracts. The notional amount being hedged is reset on a monthly basis.

Base value: 1000

Base date: 29 March 2012

Underlying Index: EURO iSTOXX 50 ESG Focus EUR Price (SX5EFE)

Index type: Price

Index Currency: KRW

Dissemination calendar: STOXX Europe Calendar

97.1.2. CALCULATION

$$H_IDX_t = H_IDX_{t_r} \cdot \left[\frac{UH_IDX_t}{UH_IDX_{t_r}} + \frac{H_IDX_{t_{r-1}}}{H_IDX_{t_r}} \cdot HR_{t_r} \cdot \left(\frac{FX_{t_{r-1}}}{FF_{t_r}} - \frac{FX_{t_{r-1}}}{IFF_t}\right)\right]$$

Where:

H_IDX_t	hedged index value for day t
UH_IDX_t	unhedged reference index in KRW for day t, equivalent to the underlying index level for day t divided by FX_t
t_r	last calculation day of preceding month (reset date)
t	day of index calculation / number of calendar days since t_r
T	number of calendar days in current month
HR	hedge ratio of currency hedge, $HR_{t_r} = 100\%$
FX_t	spot currency rate for day t, ($1/\mathrm{EURKRW_t}$)
FF_t	1-month forward currency rate for day t, $1/(\mathrm{EURKRW_1M_Fwd_t})$
IFF_t	interpolated forward currency rate for day t expressed as units of EUR per unit KRW, $IFF_t = FX_t + \left(1-\frac{t}{T}\right) \cdot (FF_t - FX_t)$
$\mathrm{EURKRW_t}$	units of KRW per unit EUR, obtained using WM Fixing of 6AM GMT
$\mathrm{EURKRW_1M_Fwd_t}$	1-month NDF rate, expressed as units of KRW per unit EUR, obtained using WM Fixing of 6AM GMT

98. EURO iSTOXX 50 FUTURES ROLL TR KRW HEDGED (MONTHLY) INDEX

98.1. EURO iSTOXX 50 FUTURES ROLL TR KRW HEDGED (MONTHLY) INDEX

98.1.1. OVERVIEW

The EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index measures the performance of the EURO STOXX 50 Futures Roll 5D TR Index while at the same time eliminating EURKRW currency fluctuations through hedging. The index, therefore, combines the performance of the underlying index with a hypothetical rolling investment into one-month EURKRW forward contracts. The notional amount being hedged is reset on a monthly basis.

Base value: 1000

Base date: 31 March 2011

Underlying Index: EURO STOXX 50 Futures Roll 5D TR EUR (SX5EF5TR)

Index type: Price

Index Currency: KRW

Dissemination calendar: STOXX Eurex Calendar

Derived indices: The EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Index serves as input for the EURO iSTOXX 50 Futures Roll TR KRW Hedged (Monthly) Decrement 3.5% Index (section 9.55)

98.1.2. CALCULATION

$$H_IDX_t = H_IDX_{t_r} \cdot \left[\frac{UH_IDX_t}{UH_IDX_{t_r}} + \frac{H_IDX_{t_{r-1}}}{H_IDX_{t_r}} \cdot HR_{t_r} \cdot \left(\frac{FX_{t_{r-1}}}{FF_{t_r}} - \frac{FX_{t_{r-1}}}{IFF_t}\right)\right]$$

Where:

H_IDX_t	hedged index value for day t
UH_IDX_t	unhedged reference index in KRW for day t, equivalent to the underlying index level for day t divided by FX_t
t_r	last calculation day of preceding month (reset date)
t	day of index calculation / number of calendar days since t_r
T	number of calendar days in current month
HR	hedge ratio of currency hedge, $HR_{t_r} = 100\%$
FX_t	spot currency rate for day t, $(1/\mathrm{EURKRW}_t)$
FF_t	1-month forward currency rate for day t, $1/(\mathrm{EURKRW_1M_Fwd}_t)$
IFF_t	interpolated forward currency rate for day t expressed as units of EUR per unit KRW, $IFF_t = FX_t + \left(1 - \frac{t}{T}\right) \cdot (FF_t - FX_t)$
EURKRW_t	units of KRW per unit EUR, obtained using WM Fixing of 6AM GMT

98. EURO iSTOXX 50 FUTURES ROLL TR KRW HEDGED (MONTHLY) INDEX

$EURKRW_1M_Fwd_t$	1-month NDF rate, expressed as units of KRW per unit EUR, obtained using WM Fixing of 6AM GMT

99. iSTOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY 30 INDEX

99.1. iSTOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY 30 INDEX

99.1.1. OVERVIEW

The iSTOXX Global Electric Vehicles & Driving Technology 30 Index is comprised of the 30 largest companies associated with Electric Vehicles & Driving Technology. This includes firms which are involved in the manufacturing of electric and autonomous vehicles, battery suppliers for electric vehicles, and other suppliers in the electric and autonomous vehicle manufacturers' supply chain. These companies, or components of their business lines, are expected to benefit from long-term structural trends driving economic change and which, in the future, may have a substantial impact on their performance

Universe: The STOXX Global Electric Vehicles & Driving Technology index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is free-float market capitalization-weighted.

Base values and dates: 100 on Jun 24, 2013.

Index types and currencies: Price, net return and gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar.

99.1.2. INDEX REVIEW

Composition list: Companies in the parent Universe are screened for their 3-month ADTV in EUR and only those with greater than EUR 5,000,000 will be eligible for selection. The remaining companies are ranked in descending order in terms of free-float market cap, observed as of review cut-off date, and the top 30 are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting cap factors: Components are capped at a maximum weight of 10%.

99.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

99.iSTOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY 30 INDEX

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

100. iSTOXX GLOBAL BLUE AND GREEN ECONOMY SELECT 50 INDEX

100.1. iSTOXX GLOBAL BLUE AND GREEN ECONOMY SELECT 50 INDEX

100.1.1. OVERVIEW

The iSTOXX Global Blue and Green Economy Select 50 Index tracks low-volatility and high-dividend companies that show the highest environmental standards. These companies have set up policies and practices to minimize harm, control risk and limit their impact on waters (blue), land (green) and the broader ecosystem around them.

Universe: The index universe is defined by all stocks included in the STOXX Developed and Emerging Markets Total Market index, as observed on the review effective date.

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

100.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical net dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco
v. Scores on 20 ESG Key Performance Indicators from Sustainalytics' model that relate to "Blue & Green Economy". The 20 indicators are defined as follows:
    a. E.1.1 Environmental Policy: This indicator provides an assessment of the quality of the company's commitment to protect the environment
    b. E.1.2 Environmental Management System: This indicator provides an assessment of the quality and scope of a company's Environmental Management System.
    c. E.1.2.1 Biodiversity Programmes: This indicator provides an assessment of the quality of programmes to protect biodiversity.
    d. E.1.2.4 Oil Spill Disclosure & Performance: This indicator provides an assessment of the company's oil spill reporting and performance.

e. E.1.2.6.2 Mineral Waste Management: This indicator assesses the strength of the company's initiatives to manage the risk associated with mineral waste, i.e. tailings, waste rock and overburden. The indicator focuses particularly on tailings because they can pose significant hazards to the environment and local communities due to their large volume and physical and chemical characteristics.
f. E.1.2.7 Water Intensity: This indicator provides an assessment of the company's external cost of water-related impacts.
g. E.1.2.8 Forest Certifications: This indicator provides an assessment of the extent that forests, which are managed by the company, are FSC certified or certified to other schemes.
h. E.1.3.4 Water Management Programmes: This indicator provides an assessment of the quality of programmes to reduce fresh water use.
i. E.1.7.1 Green Logistics Programmes: This indicator provides an assessment of the quality of a company's programmes to improve the environmental performance of its own logistics and fleet management.
j. E.2.1 Green Procurement Policy: This indicator provides an assessment of the quality of a company's green procurement's commitment and initiatives.
k. E.2.1.1 Supplier Environmental Programmes: This indicator provides an assessment of whether the company has any programmes to improve the environmental performance of its suppliers.
l. E.2.1.6 Green Outsourced Logistics Programmes: This indicator provides an assessment of the quality of a company's programmes to reduce GHGs from outsourced logistic services.
m. E.3.1.6 Eco-Design: This indicator provides an assessment of whether there are policies and programmes to systematically consider environmental aspects at the R&D or design stage of products.
n. E.3.1.10 Credit & Loan Standards: This indicator provides an assessment of the quality of a company's environmental and social standards in its credit and loan activities.
o. E.3.1.11 Responsible Asset Management: This indicator provides an assessment of the existence and the importance of responsible asset management within the company.
p. E.3.1.13 Green Buildings Investments: This indicator provides an assessment of whether the company has any programmes to increase investments in sustainable buildings and whether it has defined any quantitative targets with clear deadlines for reaching these targets.
q. E.3.1.14 Share of Green Buildings: This indicator provides an assessment of the share of sustainable buildings as a percentage of the total property portfolio.
r. E.3.1.15 Sustainable Financial Initiatives: This indicator provides an assessment of whether the company offers sustainability related financial services.
s. G.1.3.4 Green Building Memberships: This indicator provides an assessment of whether the company is a member in (inter)national initiatives that promote sustainable buildings.
t. S.3.1.11 Customer Eco-Efficiency Programmes: This indicator provides an assessment of the quality of the company's programmes to reduce energy or water use by customers of utilities.

If any of the fields ii) to iv) above have missing information for a stock, then that company is excluded from the selection process.
If information for a company on field i) is missing, then the missing value is substituted by 0.

100.iSTOXX GLOBAL BLUE AND GREEN ECONOMY SELECT 50 INDEX

The 20 ESG indicators are not applicable to all industry groups, hence a company is only excluded if it has missing information on all 20 of them, and if it displays a score in at least one of them, then it is retained.

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR

- **Global Standards**: Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons**: Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[122]. STOXX will exclude companies that Sustainalytics identifies to have:

  Weapons:
  iii) Small Arms:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms
  »>10% revenues from retail and/or distribution of assault weapons
  »>10% revenues from retail and/or distribution of small arms (non-assault weapons)
  »>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
  iv) Military Contracting:
  »>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
  »>10% revenues from tailor made products and/or services that support military weapons
  »>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

[122] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

Adult Entertainment:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials

Gambling:
»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Unconventional Oil & Gas

iv) Arctic Oil and Gas Exploration:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

v) Oil Sands:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

vi) Shale Energy:
»>0% revenues from shale energy exploration and/or production

Conventional Oil & Gas:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>25% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Thermal Coal:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Nuclear Power:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls

- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:

- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

- **ESG Key Performance Indicators**: Companies with a score of 0 in at least one of 20 indicators, are excluded.

  Assessment of these KPIs does not apply for all peer groups, and for certain companies some of these KPIs are not applicable to their business model. KPIs for which ESG research is not available, are not taken into account for the purposes of this exercise. Example: If a company is assessed in 3 KPIs out of the 20, then that company will be eligible for the next step of the selection process if it displays a score that exceeds 0 in all 3 indicators.

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained

Composition list: The final composition list with the 50 securities derives by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).
2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 50 stocks with the highest dividend yield are selected in the index, in such a way that the following conditions are met:

   a. Country
   For each country i, a maximum number of components K is calculated as follows and rounded to the nearest integer, such that diversification is ensured and the country profile of the iSTOXX Global Blue and Green Economy Select 50 Index does not deviate much from the corresponding weights of the STOXX Global 3000 Index. Moreover, for countries, that are represented in the STOXX Global 3000 Index, with

100.iSTOXX GLOBAL BLUE AND GREEN ECONOMY SELECT 50 INDEX

a weight exceeding 20%, a minimum number of components L is also calculated in a similar fashion:

$$K_i = (SXGBM_i + 10\%) * N$$

$$L_i = (SXGBM_i - 10\%) * N$$

where:

K_i maximum number of components from country i, allowed for inclusion in the iSTOXX Global Blue and Green Economy Select 50 Index Index

L_i minimum number of components from country i, to be included in the iSTOXX Global Blue and Green Economy Select 50 Index Index

$SXGBM_i$ weight of the components coming from country i, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Blue and Green Economy Select 50 Index (50)

b. Industry

For each ICB industry j, a maximum number of components is calculated as follows and rounded to the nearest integer:

$$D_j = \left(SXGBM_j + 10\%\right) * N$$

where:

D_j maximum number of components from industry j, allowed for inclusion in the iSTOXX Global Blue and Green Economy Select 50 Index

$SXGBM_j$ weight of the components coming from country j, in the STOXX Global 3000 Index, as of the cutoff date

N number of constituents in the iSTOXX Global Blue and Green Economy Select 50 Index (50)

If the composition list cannot be completed with 50 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($Z = Z + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 50 stocks are selected.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all data used in the selection process is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

100.iSTOXX GLOBAL BLUE AND GREEN ECONOMY SELECT 50 INDEX

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

100.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

101. iSTOXX WORLD A INDEX

101.1. iSTOXX WORLD A INDEX

101.1.1. OVERVIEW

The iSTOXX World A Index is derived from the STOXX Developed Markets Total Market Index. With a coverage of about 85% of developed equity markets' free-float market cap, the iSTOXX World A Index offers access to large- and mid-cap developed markets companies.

Universe: STOXX Developed Markets Total Market Index.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: December 21, 2012.

Index types and currencies: Price, net return, gross return in EUR and USD.

101.1.2. INDEX REVIEW

Composition list: In a first step global consistency bounds are determined based on the STOXX Global Total Market Index. For this purpose, all securities from all countries in the STOXX Global Total Market index are sorted by their full market cap and the cumulative free-float market capitalization coverage percentage for each security is calculated, whereby the percentages are scaled so that the total coverage percentage in terms of free-float market capitalization sums to 98%[123]. Then, the upper (lower) global consistency bound is represented by the full market cap of the first security for which the above cumulative free-float market capitalization coverage percentage is greater than 83.25% (92%).

In a second step, Poland[124] is excluded from the universe. Next, for each remaining country in the universe the following selection procedure is applied to target 85% free-float market cap coverage:

- Only securities with an annualized turnover ratio greater or equal to 10% are selected. The annualized turnover ratio is defined as the median value of the daily traded volume to free-float shares ratio over the last 12 months, multiplied by 252.
- Securities with a price greater than EUR 10'000 are excluded.
- Next, after sorting securities by full market cap, the cumulative free-float market capitalization local (relative to the country) coverage percentage (LCP) for each security is calculated, whereby the percentages are scaled so that the total coverage percentage sums to the coverage for that country as applied in the STOXX Total Market Index creation[125].
- The securities that cover the top 85% by LCP (i.e. with a full market cap greater or equal than the largest company with LCP greater than 85%) directly qualify.
- Next, it is checked if the full market cap of the smallest security that directly qualified lies within the global consistency bounds. If this is not the case and the smallest security has

[123] This is done since the STOXX Total Market Indices are already only covering less than 100%. 98% is a proxy for the overall global coverage of STOXX Total Market indices.

[124] Poland is by some market participants considered a developing country.

[125] See https://www.stoxx.com/methodology for a list of STOXX Total Market coverage by country.

a full market cap greater (smaller) than the upper (lower) global consistency bound, securities with full market cap greater (smaller) or equal than the upper (lower) global consistency bound are added (removed).

- To reduce turnover, the following buffer rule is applied:
    - Only securities with LCP lower than 82% can be newly added to the index
    - Only securities with LCP higher than 86% can be removed from the index

Lastly, the combination of the resulting eligible securities from all countries forms the index composition.

Review frequency: The index is reviewed on a semi-annual basis in June and December. In addition, in March and September free-float shares are updated in line with all STOXX universes.

Weighting cap factors: Securities are weighted by free-float market cap.

101.1.3. ONGOING MAINTENANCE

Replacements: Deleted securities are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spun-off companies are not added permanently to the index.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com. Index components are deleted from all STOXX indices in case of official delisting from the eligible stock exchange or ongoing bankruptcy proceedings.

102. iSTOXX APG WORLD-X AND RESPONSIBLE INDICES

102.1.1. OVERVIEW

The iSTOXX APG World-X and Responsible Indices are a series of indices designed to track and quantify the impact of different ESG, Carbon and SDI constraints and tilts on a broad developed global market cap index. The weighting of each constituent security is determined through an optimization process that is designed to minimize tracking error to the benchmark while improving the ESG, Carbon and SDI exposures.

Indices:

The iSTOXX APG Index Range is comprised of five separate indices, herein referred to as:

iSTOXX APG World-X Index
iSTOXX APG World Responsible Index
iSTOXX APG World Responsible Low-Carbon Index
iSTOXX APG World Responsible SDI Index
iSTOXX APG World Responsible Low-Carbon SDI Index

Universe: iSTOXX World A Index constituents

Parent Index: iSTOXX World A Index

Weighting scheme: The constituents in each index are set to minimize the tracking error of the index to the Parent Index while satisfying the other optimization constraints.

Base values and dates: 100 and 23 March 2020

Index types and currencies: Price, net and gross return in USD and EUR.

For a complete list please consult the data vendor code sheet on the website.

102.1.1. INDEX REVIEW

Constituent selection: The portfolio construction is performed using Axioma's portfolio optimization software.

The objective of the optimization problem is to minimize tracking error to the parent index.

Minimize: $(w-b)^T Q\ (w-b)$

where

b = Parent Index weights

102.iSTOXX APG WORLD-X AND RESPONSIBLE INDICES

w = Index weights

Q = covariance matrix from the Axioma Risk Model

The following constraints are enforced in order to ensure diversification, achieve carbon, ESG and SDI targets as well as control for unintended systematic exposures, turnover, diversification and tradability. Short descriptions of the data elements given are below:

APG ESG-Leader Flag: a data attribute designed to identify companies that are considered to be adequately managing ESG risks. Under this policy, companies are systematically assessed based on their conduct in relation to the management of ESG-related risks inherent in companies' industries and markets. The assessment contains both normative and relative components and focuses on companies' preparedness and behavior regarding business ethics, human rights, labor standards and the environment.

APG SDI Measure: a data attribute designed to screen for companies that actively contribute to the UN Sustainable Development Goals through the products and services that they make. The underlying methodology uses the standard and taxonomy of the SDI Asset Owner Platform and the AI-based technology from ENTIS to systematically identify companies that contribute to the UN SDGs.

APG Exclusion Flag: a data attribute designed to identify companies that are excluded from the investment universe for product-based reasons (e.g. controversial weapons, tar sands, thermal coal, and tobacco), or conduct-based reasons, or because companies have a high risk of or proven to be violating one or more of the ten UNGC Principles. Tar sands and thermal coal exclusions are included starting from 1st June 2021. Conduct-based exclusions are included starting from 1st December 2021.

APG Carbon Footprint Equity Measure: a data attribute that reflects the total absolute emissions of attributable to the equity capital of a company.

Axioma Risk Model: Axioma World Wide Medium Horizon Fundamental Factor Risk Model

iSTOXX APG World-X Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Minimum Asset Holding (non-zero)	0.5 bp

iSTOXX APG World Responsible Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index

Active Style Exposures	+/-0.01% for all Axioma Risk Model Style factors w/r/t Parent Index
Maximum Asset Holding	20x parent index weight
Minimum Asset Holding (non-zero)	0.5 bp
Individual Issuer Capping	4.5% / 8% / 35%
Turnover	Maximum Semi-Annual One-Way Turnover: 15.0%
Tradability	WDTT for two least liquid quintiles <= 10 * Benchmark Quintile WDTT
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible Low-Carbon Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Carbon Reduction	Reduce portfolio APG Carbon Footprint Equity Measure by at least X%.
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01% for all Axioma Risk Model Style factors w/r/t Parent Index
Maximum Asset Holding	20x parent index weight
Minimum Asset Holding (non-zero)	0.5 bp
Individual Issuer Capping	4.5% / 8% / 35%
Turnover	Maximum Semi-Annual One-Way Turnover: 15.0%
Tradability	WDTT for two least liquid quintiles <= 10 * Benchmark Quintile WDTT
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible SDI Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
SDI Target	Portfolio APG SDI Measure >= Y%
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01% for all Axioma Risk Model Style factors w/r/t Parent Index
Maximum Asset Holding	20x parent index weight
Minimum Asset Holding (non-zero)	0.5 bp
Individual Issuer Capping	4.5% / 8% / 35%

Turnover	Maximum Semi-Annual One-Way Turnover: 18.0%
Tradability	WDTT for two least liquid quintiles <= 10 * Benchmark Quintile WDTT
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible Low-Carbon SDI Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Carbon Reduction	Reduce portfolio APG Carbon Footprint Equity Measure by at least X%.
SDI Target	Portfolio APG SDI Measure >= Y%
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01% for Axioma Risk Model Style factors w/r/t Parent Index
Maximum Asset Holding	20x parent index weight
Minimum Asset Holding (non-zero)	0.5 bp
Individual Issuer Capping	4.5% / 8% / 35%
Turnover	Maximum Semi-Annual One-Way Turnover: 15.0%
Tradability	WDTT for two least liquid quintiles <= 10 * Benchmark Quintile WDTT
Do not trade	Do not trade names with MDV = 0 or missing

ESG Exclusions: Those names flagged by the APG Exclusion Flag are not held.

Non-ESG-Leader Exclusions: Those names not flagged by the APG ESG-Leader Flag are not held.

Carbon Reduction: The aggregate score of the index for the APG Carbon Footprint Equity Measure is reduced from its score in the Parent Index by X%. The target values X% are specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices.

SDI Target: The aggregate score of the index for the APG SDI Measure is at least Y%. The Y% values Y% are specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices.

Active ICB Industry (Level 1) Weights: The exposure to each ICB Industry (Level 1) is summed up for the Index, and the percentage exposure of the index must be within 5% of the Parent Index values.

Active Country Weights: The exposure to each country is summed up for the Index, and the percentage exposure of the index must be within 5% of Parent Index values.

Active Style Weights: The exposure to each Axioma Risk Model Style factor (Dividend Yield, Earnings Yield, Exchange Rate Sensitivity, Growth, Leverage, Liquidity, Medium-Term Momentum, Profitability, Size, Value, Market Sensitivity and Volatility) is summed up for the Index. and the percentage exposure of the index must be within 0.01% of Parent Index values.

Maximum Asset Holding: The maximum weight of each asset in the index is 20 times its weight in Parent Index.

Minimum Asset Holding (non-zero): The minimum nonzero weight of each asset in the index is limited to 0.5 bp.

Individual Issuer Capping: The maximum weight of each issuer in the index is 8%. The sum of the weights of those issuers above 4.5% cannot exceed 35%. If the parent index itself does not satisfy the individual issuer capping constraints those are not enforced on the corresponding child indices.

Maximum Turnover: The index has a semi-annual one-way turnover limit of 15.0%.

Liquidity: The weighted-days-to-trade (WDTT) for the two least liquid quintiles is less than ten times the WDTT of the corresponding Parent Index two least liquid quintiles.

Do Not Trade: Names with zero median daily trading volume (MDV) are not traded.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found. the following constraints are relaxed iteratively. as necessary: 1) Liquidity. 2) Maximum Turnover. 3) Do Not Trade

Review frequency:

The reviews are conducted on a semi-annual basis in March and September. The implementation is conducted after the close of third Friday in March and September and effective the next trading day. The weighting factors are calculated based on closing prices in EUR from the Wednesday before the second Friday of the review months. Weighting factor = stock's target weight × (1.000.000.000 / close price of the stock in EUR), rounded to the nearest integer.

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. The cut-off date for APG data is the 5th weekday before the end of the months preceding the review months. APG will provide the input data by the end of the first weekday of the review months. In the event of no delivery of APG data by the end of the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published on the second Friday of the review months.

Missing Data Treatment: Securities that are missing all the APG data will not be eligible for selection during index reviews.

102.iSTOXX APG WORLD-X AND RESPONSIBLE INDICES

102.1.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Index constituents flagged by the APG Exclusion Flag on the final dissemination days of May and November will be removed from the index. The deletions will be announced on the next dissemination day, i.e. 1st day of the review months (June and December) and will take place two dissemination days after the announcement, i.e. at the open of the 4th dissemination day. The constituent weight will be distributed among the remaining constituents.

In the event of late delivery for the APG Exclusion list, the deletions will be announced one dissemination day after the delivery date and will take place two dissemination days after the announcement.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

103. EURO iSTOXX ESG PERFORMANCE 50 INDEX

103.1. EURO iSTOXX ESG PERFORMANCE 50 INDEX

103.1.1. OVERVIEW

The EURO iSTOXX ESG Performance 50 Index tracks the performance of 50 securities with the lowest ESG Risk Rating scores from the EURO STOXX Index that are not involved in fossil fuels. Industry neutrality filters are applied in the selection process to ensure diversification.

STOXX will exclude companies that are not compliant based on the Sustainalytics Global Standards Screening assessment, have Severe Controversy Rating (Category 5) or are involved in Controversial Weapons. Moreover, companies involved in Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy) or Thermal Coal are also not eligible for selection.

Universe: The index universe is defined by all the stocks included in the EURO STOXX Index, as observed on the review effective date.

Weighting scheme: The index is free-float market capitalization-weighted

Base values and dates: 100 on Mar 24, 2014

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

103.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index.

On the review cut-off date, the securities in the selection list are screened for the following indicators:

i. ESG Risk Rating scores, as sourced from Sustainalytics' ESG Risk Rating dataset
ii. Product involvement in: Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy) and Thermal Coal
iii. 3-month Average Daily Traded Volume (ADTV) in EUR

If any of the fields i) to iii) above have missing information for a stock, then that company is not eligible for selection.

The Selection list constitutes of all remaining stocks that fulfil the conditions below, in the order they are listed:

- Not identified as non-compliant with Sustainalytics Global Standards Screening (GSS).

  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations

Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- Do not have Severe Controversy Rating (Category 5).

  Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

- Not involved in Controversial Weapons activities, as identified by Sustainalytics.
  The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:

  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR

- Not have any Product Involvement in the following areas[126]:

  Conventional Oil & Gas:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
  This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
  »>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
  »>0% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

  Unconventional Oil & Gas
  i) Arctic Oil and Gas Exploration:
  STOXX will exclude companies that Sustainalytics identifies to have:
  »>0% revenues Oil & Gas exploration & extraction in Arctic regions
  ii) Oil Sands:
  STOXX will exclude companies that Sustainalytics identifies to have:

[126] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from shale energy exploration and/or production

Thermal Coal:
STOXX will exclude companies that Sustainalytics identifies to have:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Composition list:
Each of the remaining securities in the selection list are allocated to one of the 11 industry groupings according to their ICB code as follows:

Grouping	ICB codes
Technology	Industry 10
Telecommunications	Industry 15
Health Care	Industry 20
Financials	Industry 30
Real Estate	Industry 35
Consumer Discretionary	Industry 40
Consumer Staples	Industry 45
Industrials	Industry 50
Basic Materials	Industry 55
Energy	Industry 60
Utilities	Industry 65

The securities are then ranked in ascending order of their ESG Risk Rating scores (low score implies low ESG Risk). In case two companies for a given cut-off date have the same score, priority is given to the one with the highest free float market capitalization. The top 50 ranking securities are selected, with a maximum of 7 components out of the total 50 coming from each of the 11 industrial groupings.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting cap factors: Components are capped at a maximum weight of 10%

103. EURO iSTOXX ESG PERFORMANCE 50 INDEX

103.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

104. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

104.1. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

104.1.1. OVERVIEW

The iSTOXX Global Demographic Trends Select 50 index aims to select 50 low volatility and high dividend paying stocks among diversified industries from the STOXX Global 1800 index, and weigh them by the inverse of their volatility. The companies are chosen from sectors that are well positioned to benefit from the evolution of demographic trends globally.

Universe: All stocks from the STOXX Global 1800 index whose Industry Classification, as defined by ICB, falls into one of the following groups:

Industry	ICB Subector	ICB Code
Finance	Banks	30101010
Finance	Consumer Lending	30201020
Finance	Mortgage Finance	30201025
Finance	Diversified Financial Services	30202000
Finance	Asset Managers and Custodians	30202010
Finance	Investment Services	30202015
Finance	Life Insurance	30301010
Finance	Full Line Insurance	30302010
Finance	Insurance Brokers	30302015
Finance	Reinsurance	30302020
Finance	Property and Casualty Insurance	30302025
Infrastructure	Electronic Components	10102015
Infrastructure	Construction	50101010
Infrastructure	Engineering and Contracting Services	50101015
Infrastructure	Building, Roofing/Wallboard and Plumbing	50101020
Infrastructure	Building: Climate Control	50101025
Infrastructure	Cement	50101030
Infrastructure	Building Materials: Other	50101035
Infrastructure	Aerospace	50201010
Infrastructure	Defense	50201020
Infrastructure	Electrical Components	50202010
Infrastructure	Electronic Equipment: Control and Filter	50202020
Infrastructure	Electronic Equipment: Gauges and Meters	50202025
Infrastructure	Electronic Equipment: Pollution Control	50202030
Infrastructure	Electronic Equipment: Other	50202040
Infrastructure	Machinery: Industrial	50204000
Infrastructure	Machinery: Agricultural	50204010
Infrastructure	Machinery: Construction and Handling	50204020
Infrastructure	Machinery: Engines	50204030

104. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

Infrastructure	Machinery: Tools	50204040
Infrastructure	Machinery: Specialty	50204050
Infrastructure	Trucking	50206010
Infrastructure	Commercial Vehicles and Parts	50206015
Infrastructure	Railroads	50206020
Infrastructure	Railroad Equipment	50206025
Infrastructure	Marine Transportation	50206030
Infrastructure	Delivery Services	50206040
Infrastructure	Transportation Services	50206060
Infrastructure	Metal Fabricating	55102015
Infrastructure	Alternative Electricity	65101010
Infrastructure	Conventional Electricity	65101015
Infrastructure	Multi-utilities	65102000
Infrastructure	Gas Distribution	65102020
Infrastructure	Water	65102030
Leisure & Luxury	Tires	40101015
Leisure & Luxury	Automobiles	40101020
Leisure & Luxury	Auto Parts	40101025
Leisure & Luxury	Vending and Catering Service	40201060
Leisure & Luxury	Consumer Electronics	40203010
Leisure & Luxury	Electronic Entertainment	40203040
Leisure & Luxury	Toys	40203045
Leisure & Luxury	Recreational Products	40203050
Leisure & Luxury	Recreational Vehicles and Boats	40203055
Leisure & Luxury	Photography	40203060
Leisure & Luxury	Airlines	40501010
Leisure & Luxury	Travel and Tourism	40501015
Leisure & Luxury	Casinos and Gambling	40501020
Leisure & Luxury	Hotels and Motels	40501025
Leisure & Luxury	Recreational Services	40501030
Leisure & Luxury	Restaurants and Bars	40501040
Pharmaceuticals	Health Care Facilities	20101010
Pharmaceuticals	Health Care Management Services	20101020
Pharmaceuticals	Health Care Services	20101025
Pharmaceuticals	Health Care: Misc.	20101030
Pharmaceuticals	Medical Equipment	20102010
Pharmaceuticals	Medical Supplies	20102015
Pharmaceuticals	Medical Services	20102020
Pharmaceuticals	Biotechnology	20103010
Pharmaceuticals	Pharmaceuticals	20103015
Real Estate	Mortgage REITs: Diversified	30203000
Real Estate	Mortgage REITs: Commercial	30203010
Real Estate	Mortgage REITs: Residential	30203020
Real Estate	Real Estate Holding and Development	35101010
Real Estate	Real Estate Services	35101015

104.iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

Real Estate	Diversified REITs	35102000
Real Estate	Health Care REITs	35102010
Real Estate	Hotel and Lodging REITs	35102015
Real Estate	Industrial REITs	35102020
Real Estate	Infrastructure REITs	35102025
Real Estate	Office REITs	35102030
Real Estate	Residential REITs	35102040
Real Estate	Retail REITs	35102045
Real Estate	Storage REITs	35102050
Real Estate	Timber REITs	35102060
Real Estate	Other Specialty REITs	35102070
Resources	Paints and Coatings	50203010
Resources	Plastics	50203015
Resources	Glass	50203020
Resources	Diversified Materials	55101000
Resources	Forestry	55101010
Resources	Paper	55101015
Resources	General Mining	55102000
Resources	Iron and Steel	55102010
Resources	Aluminum	55102035
Resources	Copper	55102040
Resources	Nonferrous Metals	55102050
Resources	Diamonds and Gemstones	55103020
Resources	Gold Mining	55103025
Resources	Platinum and Precious Metals	55103030
Resources	Chemicals: Diversified	55201000
Resources	Chemicals and Synthetic Fibers	55201010
Resources	Fertilizers	55201015
Resources	Specialty Chemicals	55201020
Resources	Integrated Oil and Gas	60101000
Resources	Oil: Crude Producers	60101010
Resources	Offshore Drilling and Other Services	60101015
Resources	Oil Refining and Marketing	60101020
Resources	Oil Equipment and Services	60101030
Resources	Pipelines	60101035
Resources	Coal	60101040
Resources	Alternative Fuels	60102010
Resources	Renewable Energy Equipment	60102020
Telecom, Media & Tech	Computer Services	10101010
Telecom, Media & Tech	Software	10101015
Telecom, Media & Tech	Consumer Digital Services	10101020
Telecom, Media & Tech	Semiconductors	10102010
Telecom, Media & Tech	Production Technology Equipment	10102020
Telecom, Media & Tech	Computer Hardware	10102030
Telecom, Media & Tech	Electronic Office Equipment	10102035

104. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

Telecom, Media & Tech	Telecommunications Equipment	15101010
Telecom, Media & Tech	Cable Television Services	15102010
Telecom, Media & Tech	Telecommunications Services	15102015
Telecom, Media & Tech	Entertainment	40301010
Telecom, Media & Tech	Media Agencies	40301020
Telecom, Media & Tech	Publishing	40301030
Telecom, Media & Tech	Radio and TV Broadcasters	40301035

Weighting scheme: Price-weighted with a weighting factor according to the inverse of the volatility of the securities (maximum between 3 and 12-months historical price volatility in EUR), and additionally with weighting cap limit of 10% per constituent

Base value and date: 100 as of Jun 18, 2012

Index types and currencies: Price, net and gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

104.1.2. INDEX REVIEW

The review cut-off date is the last trading day of the month preceding the review of the index.

The following steps are followed to derive the composition list:

- All securities in the base Universe that have a 3-month ADTV in EUR below 5,000,000 are excluded. If ADTV is unavailable for a security, then that security is also excluded.
- The remaining constituents – composing the selection universe - are grouped into 7 industry clusters following the ICB matching table provided above (Finance, Infrastructure, Leisure & Luxury, Pharmaceuticals, Resources, Real Estate and Telecom & Media & Tech).
- In each group, the securities are sorted in ascending order in terms of their volatility (maximum between 3-month and 12-month historical price volatility in EUR). In case the volatility is unavailable for a security, then that security is excluded from the ranking process. If 2 or more securities display the same historical volatility, priority is assigned to the one with the highest ADTV. The top x% per group are selected for the next step, where x is calculated as following:

  $x = \sqrt{\frac{50}{N}}$ with N being the total number of stocks remaining after the volatility ranking
- All remaining stocks are then ranked according to their historical gross dividend yield in descending order and given a rank (with rank 1 being for the highest dividend yielding securities). If information for a company on its dividend yield is missing, then the missing value is substituted by 0. If 2 or more securities display the same dividend yield, priority is assigned to the one with the lowest volatility. The 50 highest ranking securities are

104. iSTOXX GLOBAL DEMOGRAPHIC TRENDS SELECT 50 INDEX

selected for inclusion in the final index, such that a minimum of 15 securities are coming from the "Pharmaceuticals" industry.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index (50)

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

104.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the parent index, STOXX Global 1800, which remain in the STOXX Total Market Index are not deleted from the index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off are not added permanently to the index

105. iSTOXX DEVELOPED MARKETS GOLD MINERS 10 EW INDEX

105.1. iSTOXX DEVELOPED MARKETS GOLD MINERS 10 EW INDEX

105.1.1. OVERVIEW

The iSTOXX Developed Markets Gold Miners 10 EW Index selects the top 10 companies in terms of free-float market capitalization from the STOXX Developed Markets Total Market index, and weighs them equally.

Universe: STOXX Developed Markets Total Market Index, as observed on the review effective date

Weighting scheme: The index is price-weighted with a weighting factor to achieve equal weighting

Base values and dates: 100 on Dec 24, 2012

Index types and currencies: Price, net and gross in EUR and USD

105.1.2. INDEX REVIEW

Selection list: Only companies classified under the “Gold Mining” ICB Subsector (55103025) are eligible for selection. The securities are screened for their 3-month ADTV in EUR, and if a security displays an ADTV below 7,000,000 EUR, it is excluded from the selection process. If information on ADTV is not available for a security, then it is also excluded from the selection process. All remaining companies are ranked by their free-float market capitalization in descending order.

Composition list: The 10 largest securities (highest free-float market capitalization) from the selection list, are selected. If less than 10 securities remain in the selection list, they are all admitted in the index composition.
Review frequency: The reviews are conducted on a quarterly basis. The review cut-off date for the underlying data is the last index dissemination day of the month preceding the review month.

Weighting cap factors: The constituents are equal weighted

$$w_i = \frac{1}{N}$$

where,

w_i	target weight of component i
N	Number of components in the index (10)

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (100,000,000,000 x w_i / p_i), rounded to the nearest integer value.

105.iSTOXX DEVELOPED MARKETS GOLD MINERS 10 EW INDEX

105.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

106. EURO iSTOXX 50 ESG KRW-CONVERTED DAILY RESET INDEX

106.1. EURO iSTOXX 50 ESG KRW-CONVERTED DAILY RESET INDEX

106.1.1. OVERVIEW

The EURO iSTOXX 50 ESG KRW-converted Daily Reset Index is designed as a base for structured products in KRW. The index is settled in KRW, while its underlying index, the EURO STOXX 50 ESG Index, is denominated in EUR. The EURO iSTOXX 50 ESG KRW-converted Daily Reset Index is designed to limit FX risk and offer a replicable strategy that accounts for the execution lag between different time zones.

Base date: 19 March 2012

Base value: 1000

Underlying Index: EURO STOXX 50 ESG Price EUR (SX5EESG)

Index type: Price

Index Currency: KRW

Dissemination calendar: STOXX Europe Calendar

106.1.2. CALCULATION

$$\mathrm{IDX_t}=\mathrm{IDX_{t-1}}\cdot\left(\frac{\mathrm{U_IDX_t\,.\,FX_t}}{\mathrm{U_IDX_{t-1}\,.\,FX_{t-1}}}\right)+\ \mathrm{IDX_{t-2}}\cdot\left(\frac{\mathrm{FX_{t-1}-FX_t}}{\mathrm{FX_{t-2}}}\right)$$

Where

IDX_t	index for day t
U_IDX_t	underlying index level for day t, $SX5EESG_t$
FX_t	spot currency rate for day t, $EURKRW_t$
$EURKRW_t$	units of KRW per unit EUR, obtained using WM Fixing of 6AM GMT

106.1.3. TRADING SUSPENSION

The EURO iSTOXX 50 ESG KRW-converted Daily Reset Index is calculated based on the closing levels of the EURO STOXX 50 ESG Index and the FX fixings on the EURKRW as per the index methodology.

If there is suspension of the underlying data on scheduled trading days or data is unavailable due to holidays for any of the EURO STOXX 50 ESG Index or the FX fixings, the EURO iSTOXX 50 ESG KRW-converted Daily Reset Index will be calculated with the latest prices available.

107.iSTOXX UNIVEST INDICES

107.1. iSTOXX UNIVEST WORLD INDEX

107.1.1. OVERVIEW

The iSTOXX Univest World Index is derived from the STOXX Developed Markets Total Market Index. With a coverage of about 85% of developed equity markets' free-float market cap, the iSTOXX Univest World Index offers access to large- and mid-cap developed markets companies.

Universe: STOXX Developed Markets Total Market Index

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: 100 on March 18, 2013

Index types and currencies: Price, net return, gross return in EUR and USD

107.1.2. INDEX REVIEW

Composition list:
In a first step global consistency bounds are determined based on the STOXX Global Total Market Index. For this purpose, all securities from all countries in the STOXX Global Total Market index are sorted by their full market cap and the cumulative free-float market capitalization coverage percentage for each security is calculated, whereby the percentages are scaled so that the total coverage percentage in terms of free-float market capitalization sums to 98%[127]. Then, the upper (lower) global consistency bound is represented by the full market cap of the first security for which the above cumulative free-float market capitalization coverage percentage is greater than 83.25% (92%).

In a second step, for each country in the universe the following selection procedure is applied to target 85% free-float market cap coverage:

- Only securities with an annualized turnover ratio greater or equal to 10% are selected. The annualized turnover ratio is defined as the median value of the daily traded volume to free-float shares ratio over the last 12 months, multiplied by 252.
- Securities with a price greater than EUR 10'000 are excluded.
- Next, after sorting securities by full market cap, the cumulative free-float market capitalization local (relative to the country) coverage percentage (LCP) for each security is calculated, whereby the percentages are scaled so that the total coverage percentage sums to the coverage for that country as applied in the STOXX Total Market Index[128]
- The securities that cover the top 85% by LCP (i.e. with a full market cap greater or equal than the largest company with LCP greater than 85%) directly qualify.

[127] This is done since the STOXX Total Market Indices are already only covering less than 100%. 98% is a proxy for the overall global coverage of STOXX Total Market indices.
[128] See https://www.stoxx.com/methodology for a list of STOXX Total Market coverage by country.

- Next, it is checked if the full market cap of the smallest security that directly qualified lies within the global consistency bounds. If this is not the case and the smallest security has a full market cap greater (smaller) than the upper (lower) global consistency bound, securities with full market cap greater (smaller) or equal than the upper (lower) global consistency bound are added (removed).
- To reduce turnover, the following buffer rule is applied:
    - Only securities with LCP lower than 82% can be newly added to the index
    - Only securities with LCP higher than 86% can be removed from the index

Lastly, the resulting eligible securities are combined to form the index composition.

Review frequency: The index is reviewed on a quarterly basis in March, June, September and December.

Weighting cap factors: Securities are weighted by free-float market cap.

Derived indices: Further regional subsets are derived by including only selected countries according to the definitions in section 4.3 of this rule book.

Region	Index
USA	iSTOXX Univest USA

107.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently to the index.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

107.2. iSTOXX UNIVEST SUSTAINABLE WORLD INDEX

107.2.1. OVERVIEW

The iSTOXX Univest Sustainable World Index is designed to achieve sustainable carbon reduction in terms of greenhouse gas emissions and intensities over time, while tracking the iSTOXX Univest World Index and providing exposure to Value, Momentum, Quality and Low Risk risk-premia factors. The iSTOXX Univest Sustainable World Index also tilts away from companies that are laggards in corporate governance, and other social criteria. In addition, the Index aims to reduce its greenhouse gas emissions and intensity at least by half by December 2024 (versus the baseline values of iSTOXX Univest World Index in December 2019), and aims to track the iSTOXX Univest World Index with a tracking error close to 1%.

Parent Index: iSTOXX Univest World Index

Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process.

Base value and date: 100 on Mar 19, 2018

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar.

107.2.2. INDEX REVIEW

Constituent selection and weighting:

The iSTOXX Univest Sustainable World Index is constructed by solving a series of optimization problems using Axioma's portfolio optimization software and the Axioma World-wide medium horizon fundamental factor risk model.

The first series of optimization problems build the Momentum, Low Risk, Quality and Value single factor portfolios while taking Climate, Social and Governance considerations into account.

A second optimization problem combines the four single factor portfolios into a target multi factor portfolio such that each single factor portfolio contributes equally to active risk.

The third and final optimization problem determines the compositions of the iSTOXX Univest Sustainable World Index by managing the risk, liquidity, and tradability of the portfolio while tracking the target multi factor solution of the second optimization problem and satisfying the Climate, Social and Governance constraints.

The objective of the **first** series of optimization problems is to maximize the exposure to the target factors.

Maximize: $\alpha^T w_{sf}$

where:
w_{sf} = single factor portfolio weights
α = Target factor exposure

Four single factor portfolios are built to maximize exposure to Momentum, Low Risk, Quality and Value factors. Further information on factor definitions is available to stakeholders via stoxx.com/indices.

The following constraints are applied during the optimization of the single factor portfolios:

Target	Constraint
Active risk	Within 4% as measured against the Parent Index
Maximum weight	Max (Parent Index Weight, Min (8%, 6*Parent Index Weight))
Social & Governance Constraints	Further details are available to stakeholders via stoxx.com/indices
Climate Constraints	Further details are available to stakeholders via stoxx.com/indices
Scope 1 + 2 GHG emission reduction (Carbon Trajectory)	Minimum GHG emission reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices
GHG Intensity reduction (Carbon Trajectory)	Minimum GHG intensity reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices

Active risk: The active risk of the single factor portfolios measured against the Parent Index is constrained to be less than or equal to 4%

Maximum weight: The maximum weight of each asset is limited to the greater of the Parent Index weight and the lesser of 8% and six times the Parent Index weight.

Social & Governance Constraints: Constraints are applied against several Social and Governance criteria; further details are available to stakeholders via stoxx.com/indices.

Climate Constraints: Constraints are applied against several Climate criteria; further details are available to stakeholders via stoxx.com/indices.

Scope 1 + 2 GHG emission reduction (Carbon Trajectory): Stock level emissions from ISS ESG defined as (Scope 1 + Scope 2 Emissions) rescaled by Enterprise Value Including Cash (EVIC) are used to compute the total Index emissions. The minimum GHG emission reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices

GHG Intensity reduction (Carbon Trajectory): Stock level GHG Intensities from ISS ESG defined as (Scope 1 + Scope 2 Emissions)/(Revenues in USD), are used for this constraint. The minimum GHG intensity reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices.

Infeasibility Handling, I: If a solution that satisfies the above constraints cannot be found, certain climate constraints are relaxed; further details are available to stakeholders via stoxx.com/indices.

A **second** optimization problem is solved to combine the four single factor portfolios into a target multi factor portfolio so that each single factor portfolio contributes equally to active risk.

$$\underset{c}{\text{minarg}}\ (\mathrm{i} \neq \mathrm{j}) \sum_i \sum_j \left(ActiveRiskContribution_i - ActiveRiskContribution_j\right)^2$$

The target multifactor portfolio is constructed as,

$w_{target} = c_{mom}w_{mom} + c_{qual}w_{qual} + c_{lowrisk}w_{lowrisk} + c_{val}w_{val}$

where:

w_{target} = target multi factor portfolio

c_{sf} = weight of single factor portfolio sf

w_{sf} = single factor portfolio sf

$ActiveRiskContribution_i$ = active risk contribution of single factor portfolio i to w_{target}

The **third** and final optimization problem determines the compositions of the Index. The objective of this optimization is to

Minimize: $(w - w_{target})^T Q(w - w_{target})$

Where:

w = Index weights

w_{target} = target multi factor solution from second optimization problem

Q = covariance matrix from Axioma Worldwide Medium Horizon Fundamental Factor Risk Model

The following constraints are applied during the optimization:

Target	Constraint
Minimum weight	0.5 bps
Maximum weight	Max (Parent Index Weight, Min(8%, 6*Parent Index Weight))
UCITS bounds	Apply tighter UCITS style 4.5/8/35% constraints
Active sector (ICB Level 3) exposures	Within 0.1% of Parent Index
Active country exposures	Within 0.1% of Parent Index
Active untargeted style factor exposures	Within 0.25 standard deviations of Parent Index

107.iSTOXX UNIVEST INDICES

Active Risk[129]	Within 1% w.r.t Parent Index
Limit turnover	7.5% one-way on a quarterly basis
Maximum number of names	800
Percentile days to trade/liquidity constraint	Maximum bound using Percentile=10%, Strength=20 parameters
Social & Governance Constraints	Further details are available to stakeholders via stoxx.com/indices
Climate Constraints	Further details are available to stakeholders via stoxx.com/indices
Scope 1 + 2 GHG emission reduction (Carbon Trajectory)	Minimum GHG emission reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices
GHG Intensity reduction (Carbon Trajectory)	Minimum GHG intensity reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices

Minimum weight:
The minimum weight of each constituent not held at parent benchmark weight is limited to 0.5bps

Maximum weight: The maximum weight of each constituent is limited to the greater of the Parent Index weight and the lesser of 8% and six times the Parent Index weight.

UCITS bounds: The maximum weight of each issuer in the index is 8%. The sum of the weights of those issuers above 4.5% cannot exceed 35%. By applying tighter constraints (4.5% / 8% / 35%) than the standard UCITs bounds (5% / 10% / 40%), we reduce the likelihood of breaching UCITs thresholds, and reduce the gravity of the breaches if they occur.

Active sector exposures: The exposure to each ICB Sector is summed up for the Parent Index, and the exposure of the index must be within +/-0.1% from the Parent Index exposures.

Active country exposures: The exposure to each country is summed up for the Parent Index, and the exposure of the index must be within +/-0.1% from the Parent Index exposures.

Active untargeted style factor exposures: The exposures to each of the untargeted style factors should be within 0.25 standard deviations of the Parent Index's factor exposures. The untargeted style factors are Exchange Rate Sensitivity, Growth, Liquidity, and Size.

Active Risk: The active risk of the index relative to the Parent Index is constrained to a maximum of 1%

Limit turnover: The Index has a quarterly one-way turnover limit of 7.5%[130]

[129] The Active Risk constraint is effective from the Dec 2021 review

[130] The Turnover constraint is disabled for the Sep 2021 rebalance, prior to Index launch

Maximum number of names: The maximum number of components in the Index is limited to 800.

Percentile days to trade/liquidity constraint: The maximum weight of each component in the Index is limited to twenty times its 60-day median daily trading volume multiplied by the ratio of benchmark weight and 60-day median daily trading volume of the representative stock p. The representative asset is the 10th percentile of all constituents in the Parent Index when sorted by the ratio of 60-day median trading volume divided by the Parent Index weight.

$$w_k \leq S\, V_k\, b_p / V_p$$

where:

w_k = the weight of the k-th stock in the portfolio

p = the asset with the 10-th percentile of V_k / b_k

b_k = the weight of the k-th stock in the benchmark

V_k = the 60-day median daily trading volume for the k-th stock

S = 20 (Strength)

Social & Governance Constraints: Constraints are applied against several Social and Governance criteria; further details are available to stakeholders via stoxx.com/indices.

Climate Constraints: Constraints are applied against several Climate criteria; further details are available to stakeholders via stoxx.com/indices.

Scope 1 + 2 GHG emission reduction (Carbon Trajectory): Stock level emissions from ISS ESG defined as (Scope 1 + Scope 2 Emissions) rescaled by Enterprise Value Including Cash (EVIC) are used to compute the total Index emissions. The minimum GHG emission reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices

GHG Intensity reduction (Carbon Trajectory): Stock level GHG Intensities from ISS ESG defined as (Scope 1 + Scope 2 Emissions)/(Revenues in USD), are used for this constraint. The minimum GHG intensity reduction of the index is specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices

Infeasibility Handling, II: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed iteratively minimizing constraint violations at each iteration in the following order: 1) Limit Turnover 2) Active country exposures 3) Certain climate and liquidity constraints are relaxed; further details are available to stakeholders via stoxx.com/indices.

Weighting factors: Weighting factors are based on the closing prices in EUR (p_i) of the second Friday of the review month.
Weighting factor = (1,000,000,000,000 x w_i / p_i), rounded to the nearest integer value.
Where:
p_i = closing price of stock i in EUR

w_i = weight of stock i in the index

Review frequency: The indices are reviewed on a quarterly basis in March, June, September and
December together with the respective parent index. The review cut-off date for risk model data is the second Friday of the review month. The cut-off date for ISS ESG data is the last dissemination day of the month preceding the review month.

107.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently to the index.

Mergers and takeovers: Standard STOXX process.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

108. EURO iSTOXX 50 RECOVERY TILTED INDEX

108.1. EURO iSTOXX 50 RECOVERY TILTED INDEX

108.1.1. OVERVIEW

The EURO iSTOXX 50 Recovery Tilted Index tracks the performance of a basket consisting of all of the EURO STOXX 50 securities and 10 additional securities, 2 from each of 5 megatrend indices that are associated to themes that are positively impacted by the driving forces of a post-pandemic era. The index is reviewed quarterly in March, June, September and December.

Universe: The following indices, as observed on the review effective date, constitute the universe:

a) EURO STOXX 50 Index
b) STOXX Global Breakthrough Healthcare
c) STOXX Global Digitalization
d) STOXX Global Next Generation Telecoms
e) STOXX Global Smart City Infrastructure
f) STOXX Global Automation & Robotics

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization and revenue exposure to the 5 themes.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

108.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the 5 thematic indices below, that have 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 5 million EUR constitute the selection list.

No.	Megatrend index
1	STOXX Global Breakthrough Healthcare
2	STOXX Global Digitalization
3	STOXX Global Next Generation Telecoms
4	STOXX Global Smart City Infrastructure
5	STOXX Global Automation & Robotics

Composition list:

108.EURO iSTOXX 50 RECOVERY TILTED INDEX

All of the EURO STOXX 50 Index constituents are selected and constitute the core segment of the index.

The remaining 10 securities that will constitute the satellite segment are selected by following an iterative process as follows:

For each megatrend index 1-5:

- The components of the megatrend index from the selection list are ranked in descending order in terms of their free-float market capitalization
- Securities that are already present in the core segment (EURO STOXX 50 components) are excluded
- Securities that have already been selected for the satellite segment are also excluded (applicable to megatrend indices 2-5)
- The top 2 (i.e. highest free-float market capitalization) of the remaining securities are selected for inclusion in the satellite segment

The process is repeated for all 5 megatrend indices, such that the 2 securities have been selected from each of them.

The final EURO iSTOXX 50 Recovery Tilted index composition list consists of the EURO STOXX 50 components and the 10 securities selected in the satellite segment, representing the 5 megatrend indices.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from the 5 megatrend indices (Megatrend companies) 20% of the final EURO iSTOXX 50 Recovery Tilted Index.

The 10 Megatrend company weights are capped at 25% within the Megatrend company weights, hence capped at 5% in the final index (20% x 25%).

$$w_i = 0.8 \text{ x } \frac{\text{ffmcap}_i}{\sum_{j=1}^{50} \text{ffmcap}_j}$$

$$w_k = 0.2 \text{ x } \frac{\text{mt}_k * \text{ffmcap}_k}{\sum_{l=1}^{10} \text{mt}_l * \text{ffmcap}_l}$$; weight capped at 25% within the Megatrend companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index
k, l	the 10 selected securities from the 5 megatrend indices

108.EURO iSTOXX 50 RECOVERY TILTED INDEX

w_k	weight of the 10 Megatrend securities in the new index (max 5% within new index)
$ffmcap$	free float market capitalization
mt_k	revenue exposure of company k to RBICS sectors that are associated to the trend it is representing[131]

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

108.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[131] Please refer to the STOXX Index Guide for the full list of RBICS sectors used for the calculation of the revenue exposures in the STOXX Global Breakthrough Healthcare, STOXX Global Digitalization, STOXX Global Next Generation Telecoms, STOXX Global Smart City Infrastructure and STOXX Global Automation & Robotics indices

109.iSTOXX VIETNAM FUTURES ROLL INDICES

109.1. iSTOXX VIETNAM FUTURES ROLL KR INDICES

109.1.1. INDEX CONCEPT

The iSTOXX Vietnam Futures Roll KR Indices replicate the return of a portfolio rolling the first nearby VN30 Index Future contract into the second nearby contract over the period of 3 days. In addition, the return of a risk-free component is included. Leveraged and inverse versions are available.

Index types and currencies: VND Total Return

Base values and dates: 100,000 on October 19, 2018

Dissemination calendar: Trading calendar of VN30 index futures[132]

Precision: Index values are rounded to 2 decimals.

109.1.2. CALCULATIONS

$$IV_t = IV_{t-1}\left(1 + L \cdot \left(w_{1,t-1}\frac{F_{1,t}}{F_{1,t-1}} + w_{2,t-1}\frac{F_{2,t}}{F_{2,t-1}} - 1\right) + (1 - |L| \cdot MR) \cdot IR_{t-1}\frac{d}{365}\right)$$

where

IV_t	= index value on day *t*
L	= leverage (1, 2, -1, -2)
$w_{k,t}$	= weight of kth VN30 futures contract on close of day *t*
$F_{k,t}$	= settlement price of kth VN30 futures contract on day *t* (mid quote for real-time calculation)
MR	= margin rate[133]
IR_t	= Korean Overnight Call Rate (RIC: KRCALL=BOKK) on day *t*
d	= number of calendar days between day *t* and day *t-1*

Weight calculation:

$$w_{1,t} = \left(1 - \frac{r}{3}\right)$$
$$w_{2,t} = 1 - w_{1,r}$$

where

r	= roll day (1 on T-3, 2 on T-2, 3 on T-1, 0 otherwise)
T	= Final trading day of 1st contract (typically the third Thursday of the expiry month. In case it is a holiday, it will be the previous trading day)

I.e. on the final trading day of the 1st contract the index return is solely based on the 2nd contract.

[132] https://hnx.vn/tin-tuc-su-kien-gd.html
[133] Changes to the margin rate as published by HNX may not be applied to the index formula immediately; currently set to 13%

110. iSTOXX GLOBAL ESG DIVIDEND INDEX

110.1. iSTOXX GLOBAL ESG DIVIDEND TREND INDEX

110.1.1. OVERVIEW

The iSTOXX Global ESG Dividend Trend Index selects 20 liquid stocks with low volatility and high dividend yield, that have improved or maintained their ESG scores in the last year. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities, as identified by Sustainalytics, are excluded. Additionally, companies involved in Adult Entertainment, Gambling, Conventional Oil & Gas, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Nuclear Power, Thermal Coal, Tobacco, Weapons (Small Arms and Military Contracting), Aerospace and Defense are also excluded. An additional filter excludes poor ESG performers from the index.

Universe: The index universe is defined by all the stocks included in the STOXX Global 1800 Index, as observed on the review effective dates

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (3-month historical volatility in EUR) of the constituents

Base values and dates: 100 on Mar 19, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

110.1.2. INDEX REVIEW

Selection list: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date information for the following fields is retrieved for all stocks in the base universe:

i. previous year's quarterly realized dividend yield
ii. 3-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Current ESG scores, as calculated by Sustainalytics' transparent ESG performance rating model
v. ESG scores calculated by Sustainalytics in the corresponding review cutoff date one year prior to the current review cutoff date
vi. Product Involvement information on: Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power, Tobacco and Weapons (Small Arms and Military Contracting)

The screening criteria below are then applied on the initial universe, in the order they are listed:

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment.
- Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and

Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons**: STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons

  The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.
  The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: STOXX will exclude companies with no information in the indicators below, or that Sustainalytics identifies to have[134]:

  Weapons:
  i) Small Arms:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms
  »>10% revenues from retail and/or distribution of assault weapons
  »>10% revenues from retail and/or distribution of small arms (non-assault weapons)
  »>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers
  ii) Military Contracting:
  »>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
  »>10% revenues from tailor made products and/or services that support military weapons
  »>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

  Adult Entertainment:
  »>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
  »>25% revenues from the distribution of adult entertainment materials

  Gambling:
  »>25% revenues from owning and/or operating a gambling establishment

[134] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Unconventional Oil & Gas

i) Arctic Oil and Gas Exploration:

»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii) Oil Sands:

»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii) Shale Energy:

»>0% revenues from shale energy exploration and/or production

Conventional Oil & Gas:

»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Thermal Coal:

»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Nuclear Power:

»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix

Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

- **ICB classification**: Companies belonging to the Aerospace or Defense ICB subsectors (50201010, 50201020 ICB codes) are excluded

- **Liquidity screening**: Securities with 3-month Average Daily Traded Volume (ADTV) in EUR below 5 million EUR are excluded

- **Trading suspension screening**: Securities with suspension from trading for more than 10% of the STOXX Calendar trading days are excluded

$$\text{Min Number of Price Observations}_{\text{Period}} = \text{Number of Trading Days}_{\text{Period}} \times 0.9$$

- **Dual listing**: If a company is represented in the eligible universe by multiple listings, only the most liquid class is retained.

If information for a security is not available for any of the above fields, then that security is excluded from the eligible universe, at the same step where assessed for the missing indicator.

For the resulting list of securities, the following steps are applied before the final selection list is obtained:

1) For each security in the resulting list, an *ESG trend* score is calculated as follows:

$$\text{ESG trend}_t = \text{ESG score}_t - \text{ESG score}_{t-1}$$

Where:
- t: review cutoff date
- $t-1$: the corresponding review cutoff date, a year prior to t
- ESG score_t: the ESG score of the security on the review cutoff date t
- ESG score_{t-1}: the ESG score of the security on the cutoff date $t-1$, the cutoff date a year prior to t

2) Only securities with $\text{ESG trend}_t \geq 0$ are considered for selection, and the rest are excluded from the list. Securities for which an ESG score is unavailable, for either, or both years, are also excluded from the list.

3) The remaining securities are sorted in descending order of their ESG score_t, and only the top 80% (rounded down to the nearest integer) of the companies with highest ESG scores are considered for selection and constitute the selection list. In this ranking process, in case two companies have the same ESG score_t, then priority is given to the one with the highest ESG trend_t.

Composition list: The final composition list with the 20 securities is derived by following the steps below:

1) **Dividend Ranking**: All stocks from the selection list are screened for their last year's quarterly realized dividend yield, which is calculated as the sum of a security's gross

dividend payments within the following quarter, of the previous year (excluding extraordinary dividend payments), divided by the security's close price as of the review cut-off date.
The time interval for this dividend consolidation exercise is set to start from and include the first index dissemination day following the 3rd Friday of the previous year's month that corresponds to the given review month. The end point is set as the 3rd Friday three months after the start point. Example: for a review effective date set as 21/6/2021, the dividend lookback period is [22/6/2020-18/9/2020]. If this information is not available for a security, then the missing value is substituted by 0.

The companies are sorted in descending order in terms of their dividend yield and the top 80 (highest dividend yield) stocks are selected. In case two companies for a given cutoff date have the same dividend yield, priority is given to the one with the lowest volatility (3-month historical volatility in EUR).

2) **Volatility Ranking**: Subsequently, the remaining stocks are sorted in ascending order in terms of volatility (as defined above), and the 20 securities with the lowest volatility are selected for inclusion in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i target weight of component *i*
σ_i 3-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

110.iSTOXX GLOBAL ESG DIVIDEND INDEX

110.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the index. Deletions from the corresponding universe, which remain in the STOXX Developed Markets Total Market Index are not deleted from the index.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

111. EURO iSTOXX 50 NR DECREMENT 120 INDICES

111.1. EURO iSTOXX 50 NR DECREMENT 120 INDEX

111.1.1. OVERVIEW

The EURO iSTOXX 50 NR Decrement 120 index replicates the performance of the net return version of the EURO STOXX 50 index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an actual/365 fixed day count convention). Consequently, due to the index points deduction, the EURO iSTOXX 50 NR Decrement 120 index underperforms the EURO STOXX 50 index, which includes the net dividend investments.

111.1.2. DEFINITIONS

Base value: 3218.02
Base date: 29 September 2009
Underlying Index: EURO STOXX 50 Net Return index
Decrement Amount (in index points): 120
Index Type: Price
Index Currency: EUR
Dissemination calendar: The intersection of the STOXX Europe calendar and South Korea Stock Exchange trading days

111.1.3. CALCULATIONS

The EURO iSTOXX 50 NR Decrement 120 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

111.1.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

111.EURO iSTOXX 50 NR DECREMENT 120 INDICES

111.2. EURO iSTOXX 50 NR DECREMENT 120 KRW HEDGED INDEX

111.2.1. OVERVIEW

The EURO iSTOXX 50 NR Decrement 120 KRW Hedged index replicates the returns of the EURO iSTOXX 50 NR Decrement 120 index with a monthly currency hedge where the reset of the hedge notional occurs on a monthly basis. At each rebalancing date, the index will enter into a one-month forward contract to sell USDKRW and buy USDEUR at a predefined exchange rate.

111.2.2. DEFINITIONS

Base value: 2642.78
Base date: 29 September 2009
Underlying Index: EURO iSTOXX 50 NR Decrement 120 index
Index Type: Price
Index Currency: KRW
Dissemination calendar: The intersection of the STOXX Europe calendar and South Korea Stock Exchange trading days

111.2.3. CALCULATIONS

$$H_IDX_t = H_IDX_{t_r} \cdot \left[\frac{UH_IDX_t}{UH_IDX_{t_r}} + \frac{H_IDX_{t_r-1}}{H_IDX_{t_r}} \cdot HR_{t_r} \cdot \left(\frac{FX_{t_r-1}}{FF_{t_r}} - \frac{FX_{t_r-1}}{IFF_t} \right) \right]$$

Where

H_IDX	hedged index for day t
UH_IDX_t	unhedged reference index in KRW for day t, equivalent to the underlying index level for day t divided by FX_t
t_r	last calculation day of preceding month (reset date)
t	day of index calculation
T	day on the last calculation date of the month
HR	hedge ratio of currency hedge, $HR_{t_r} = 100\%$
FX_t	$1/(EURUSD_t \cdot USDKRW_t)$
FF_t	$1/(EURUSD_1M_Fwd_t \cdot USDKRW_1M_Fwd_t)$
IFF_t	the interpolated forward rate for day t, expressed as units of EUR per unit of KRW, $FX_t + (1 - {}^{t}/_{T}) \cdot (FF_t - FX_t)$
$EURUSD_t$	units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
$USDKRW_t$	units of KRW per unit USD, obtained using WM Fixing of 6AM GMT

111.EURO iSTOXX 50 NR DECREMENT 120 INDICES

$EURUSD_1M_Fwd_t$	1-month forward currency rate, expressed as units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
$USDKRW_1M_Fwd_t$	1-month NDF forward currency rate, expressed as units of KRW per unit USD, obtained using WM Fixing of 6AM GMT

112. EURO iSTOXX 50 ESG NR DECREMENT 30 INDICES

112.1. EURO iSTOXX 50 ESG NR DECREMENT 30 INDEX

112.1.1. OVERVIEW

The EURO iSTOXX 50 ESG NR Decrement 30 index replicates the performance of the net return version of the EURO STOXX 50 ESG index assuming a constant dividend markdown expressed in index points that are deducted on an accrued basis (using an actual/365 fixed day count convention). Consequently, due to the index points deduction, the EURO iSTOXX 50 ESG NR Decrement 30 index underperforms the EURO STOXX 50 ESG index, which includes the net dividend investments.

112.1.2. DEFINITIONS

Base value: 1000
Base date: 3 May 2021
Underlying Index: EURO STOXX 50 ESG Net Return index
Decrement Amount (in index points): 30
Index Type: Price
Index Currency: EUR
Dissemination calendar: The intersection of the STOXX Europe calendar and South Korea Stock Exchange trading days

112.1.3. CALCULATIONS

The EURO iSTOXX 50 ESG NR Decrement 30 Index is calculated according to the STOXX Decrement Indices section of the STOXX Strategy Guide.

112.1.4. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

112.EURO iSTOXX 50 ESG NR DECREMENT 30 INDICES

112.2. EURO iSTOXX 50 ESG NR DECREMENT 30 MONTHLY KRW HEDGED INDEX

112.2.1. OVERVIEW

The EURO iSTOXX 50 ESG NR Decrement 30 Monthly KRW Hedged index replicates the returns of the EURO iSTOXX 50 ESG NR Decrement 30 index with a monthly currency hedge where the reset of the hedge notional occurs on a monthly basis. At each rebalancing date, the index will enter into a one-month forward contract to sell USDKRW and buy USDEUR at a predefined exchange rate.

112.2.2. DEFINITIONS

Base value: 1000
Base date: 3 May 2021
Underlying Index: EURO iSTOXX 50 ESG NR Decrement 30 index
Index Type: Price
Index Currency: KRW
Dissemination calendar: The intersection of the STOXX Europe calendar and South Korea Stock Exchange trading days

112.2.3. CALCULATIONS

$$\text{H_IDX}_t = \text{H_IDX}_{t_r} \cdot \left[\frac{\text{UH_IDX}_t}{\text{UH_IDX}_{t_r}} + \frac{\text{H_IDX}_{t_r-1}}{\text{H_IDX}_{t_r}} \cdot \text{HR}_{t_r} \cdot \left(\frac{\text{FX}_{t_r-1}}{\text{FF}_{t_r}} - \frac{\text{FX}_{t_r-1}}{\text{IFF}_t} \right) \right]$$

Where

H_IDX	hedged index for day t
UH_IDX_t	unhedged reference index in KRW for day t, equivalent to the underlying index level for day t divided by FX_t
t_r	last calculation day of preceding month (reset date)
t	day of index calculation
T	day on the last calculation date of the month
HR	hedge ratio of currency hedge, $\text{HR}_{t_r} = 100\%$
FX_t	$1/(\text{EURUSD}_t \cdot \text{USDKRW}_t)$
FF_t	$1/(\text{EURUSD_1M_Fwd}_t \cdot \text{USDKRW_1M_Fwd}_t)$
IFF_t	the interpolated forward rate for day t, expressed as units of EUR per unit of KRW, $\text{FX}_t + (1 - t/T) \cdot (\text{FF}_t - \text{FX}_t)$
EURUSD_t	units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
USDKRW_t	units of KRW per unit USD, obtained using WM Fixing of 6AM GMT

$\mathrm{EURUSD_1M_Fwd}_t$	1-month forward currency rate, expressed as units of USD per unit EUR, obtained using WM Fixing of 6AM GMT
$\mathrm{USDKRW_1M_Fwd}_t$	1-month NDF forward currency rate, expressed as units of KRW per unit USD, obtained using WM Fixing of 6AM GMT

113.iSTOXX PPF INDICES

113.1. iSTOXX PPF RESPONSIBLE SDG INDEX

113.1.1. OVERVIEW

The iSTOXX PPF Responsible SDG Index is designed to target increased exposure to securities in Developed Markets which positively contribute to the achievement of certain UN Sustainable Development Goals.

Parent Index: STOXX Developed Markets Total Market Index

Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process.

Base value and date: 100 on Sep 30, 2021

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

113.1.2. INDEX REVIEW

Details of the index review procedure are available to stakeholders at www.stoxx.com/indices

113.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

113.iSTOXX PPF INDICES

113.2. iSTOXX PPF RESPONSIBLE SDG MONTHLY HEDGED 50% INDEX

113.2.1. OVERVIEW

A currency-hedged index is designed to represent returns for global index investment strategies that involve hedging currency risk, but not the underlying constituent risk. The currency-hedged strategy indices eliminate the risk of currency fluctuations at the cost of potential currency gains.

113.2.2. DEFINITIONS

The iSTOXX PPF Responsible SDG Monthly Hedged 50% Index is available in the following types and currencies: net and gross return, in EUR

Base values and dates: 1000 on September 30, 2021

Dissemination calendar: STOXX Europe calendar

113.2.3. CALCULATIONS

The iSTOXX PPF Responsible SDG Monthly Hedged 50% Index measures the performance of the iSTOXX PPF Responsible SDG Index while at the same time partially eliminating foreign currency fluctuations though hedging. Foreign currency fluctuations are partially eliminated with a monthly 50% currency hedge where the reset of the hedge notional occurs on a monthly basis.

The hedge multiplier parameter is set to 0.5 to implement the 50% currency hedge. The full calculation methodology is covered in chapter 19 of the STOXX Strategy Guide.

113.3. iSTOXX PPF EMERGING MARKETS INDEX

113.3.1. OVERVIEW

The iSTOXX PPF Emerging Markets Index aims to provide a substitute of the STOXX Emerging Markets Index for investors who are not able to invest in Indian local listings. The index includes the components of the STOXX Emerging Markets Index without the Indian local listings; and additional Indian depositary receipts, that aim to compensate for the removed Indian local listings.

Universe: The index universe is the STOXX Emerging Markets Index and the Indian components of the STOXX World DR Index.

Weighting scheme: The index components are weighted according to the free float market capitalization adjusted for foreign ownership restrictions.

Base values and dates: 1000 on March 15th, 2019.

Index types and currencies: Price, net and gross return in USD and EUR.

Dissemination calendar: STOXX Global Calendar.

113.3.2. INDEX REVIEW

The index is reviewed and disseminated in the same way as the regional indices derived from the STOXX World AC All Cap Index (see the STOXX World Equity Index Methodology Guide), unless specified otherwise.

Component selection: The starting universe is the STOXX Emerging Markets Index, where all Indian local listings are removed. The Indian components of the STOXX World DR Index are added, if they have corresponding local listings in the STOXX Emerging Markets Index, and if they are not already selected.

Review frequency: The indices are reviewed on a semi-annual basis after the close on every third Friday in March and September, and the effective date is the first dissemination day after the third Friday. The data cut-off date is the last dissemination day of the previous month.

Quarterly screens for Indian local listings: If an existing component of the iSTOXX PPF Emerging Markets Index is a local share, and if it is assigned to India during the update of the country assignment in June and December (see the STOXX World Equity Index Methodology Guide), then it is removed from the iSTOXX PPF Emerging Markets Index, effective on the next dissemination day following the 3rd Friday of the month.

Weighting scheme and cap factors: Securities are weighted by free-float market capitalization, adjusted for foreign ownership restrictions. Cap factors for China Connect Securities are multiplied by a factor of 0.2. The weighting factors and the cap factors are published five disseminations days before the effective day and calculated based on prices from the previous day.

113.3.3. ONGOING MAINTENANCE

The iSTOXX PPF Emerging Markets Index is maintained in the same way as the regional indices derived from the STOXX World AC All Cap Equity Index (see the STOXX World Equity Index Methodology Guide), unless specified otherwise.

Spin-offs: If a spin-off from a component of the iSTOXX PPF Emerging Markets Index is added permanently to the STOXX Emerging Markets Index, or to the SW DR Index, then it is added permanently to the iSTOXX PPF Emerging Markets Index, if it is not a local Indian listing.

113.4. iSTOXX PPF RESPONSIBLE SDG EMERGING MARKETS INDEX

113.4.1. OVERVIEW

The iSTOXX PPF Responsible SDG Emerging Markets Index is designed to target increased exposure to securities in Emerging Markets which positively contribute to the achievement of the UN Sustainable Development Goals.

Parent Index: iSTOXX PPF Emerging Markets Index

Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process.

Base value and date: 100 on Sep 30, 2021

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Global calendar

113.4.2. INDEX REVIEW

Details of the index review procedure are available to stakeholders at www.stoxx.com/indices

113.4.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

114.EURO iSTOXX 50 INFLATION ADJUSTED INDICES

114.1. EURO ISTOXX 50 PR INFLATION ADJUSTED INDEX

114.1.1. INDEX CONCEPT

The EURO iSTOXX 50 PR Inflation Adjusted Index measures the performance of the Price Return version of the EURO STOXX 50 Index while taking into account inflation in the Eurozone. This is done by incorporating the changing levels of the Harmonised Index of Consumer Prices into the calculation.

Index Type and Currency: Price Return, EUR.
Index Rounding: Index values rounded to 2dp
Base Value and Date: 100 on 02 Jan 2006
Dissemination calendar: STOXX Europe calendar

Index FORMULA

The Index values are calculated as follows:

$$I_t = I_{t-1} * \left[\frac{SX5E_t}{SX5E_{t-1}}\right] * \left[\frac{CPI_{Month(t-1)-3}}{CPI_{Month(t)-3}}\right]$$

With:

I_t Index value on day t
I_{t-1} Index value on day t-1 (Unrounded value used)
$SX5E_t$ Index SX5E value on day t
$SX5E_{t-1}$ Index SX5E value on day t-1
$CPI_{Month(t)-3}$ Index CPI value for the 3rd month in the past (3 months from the current one)
$CPI_{Month(t-1)-3}$ Index CPI value for the 3rd month in the past (3 months from the month of the Business Day t-1) day t-1)

Where,

SX5E: EURO Stoxx 50 Index (Price Return)
CPI: Eurostat Euro Zone HICP Excluding Tobacco (on Refinitiv EUCPTU=ECI)

ONGOING MAINTENANCE

All corporate actions and events handled in the EURO STOXX 50 Index (Price Return) – no additional precautions needed.

114.EURO iSTOXX 50 INFLATION ADJUSTED INDICES

114.2. EURO ISTOXX 50 NR INFLATION ADJUSTED INDEX

114.2.1. INDEX CONCEPT

The EURO iSTOXX 50 NR Inflation Adjusted Index measures the performance of the Net Return version of the EURO STOXX 50 Index while taking into account inflation in the Eurozone. This is done by incorporating the changing levels of the Harmonised Index of Consumer Prices into the calculation.

Index Type and Currency: Net Return, EUR.
Index Rounding: Index values rounded to 2dp
Base Value and Date: 100 on 02 Jan 2006
Dissemination calendar: STOXX Europe calendar

Index FORMULA

The Index values are calculated as follows:

$$I_t = I_{t-1} * \left[\frac{SX5T_t}{SX5T_{t-1}}\right] * \left[\frac{CPI_{Month(t-1)-3}}{CPI_{Month(t)-3}}\right]$$

With:

I_t Index value on day t
I_{t-1} Index value on day t-1 (Unrounded value used)
$SX5T_t$ Index SX5T value on day t
$SX5T_{t-1}$ Index SX5T value on day t-1
$CPI_{Month(t)-3}$ Index CPI value for the 3rd month in the past (3 months from the current one)
$CPI_{Month(t-1)-3}$ Index CPI value for the 3rd month in the past (3 months from the month of the Business Day t-1) day t-1)

Where,

SX5T: EURO Stoxx 50 Index (Net Return)
CPI: Eurostat Euro Zone HICP Excluding Tobacco (on Refinitiv EUCPTU=ECI) (sponsor of the index Eurostat)

ONGOING MAINTENANCE

All corporate actions and events handled in the EURO STOXX 50 Index (Net Return) – no additional precautions needed.

115.iSTOXX ON SINGLE STOCK INDICES

115.1. iSTOXX ON SINGLE STOCK INDICES

115.1.1. OVERVIEW

The indices are weighted according to free-float market capitalization, as described in the STOXX Calculation. The indices are composed of one constituent, except in the event of spin-offs, in which case the spun-off company is added for one day before being removed.

115.1.2. DEFINITIONS

Index Name	Symbol	Base value	Calendar	Base Date	Index Type	Index Currency
iSTOXX Single Stock on BNP Paribas Gross Return EUR	IXBNPGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Credit Agricole Gross Return EUR	IXACAGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Saint Gobain Gross Return EUR	IXSGOGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Vinci Gross Return EUR	IXDGGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on BMW Gross Return EUR	IXBMWGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Volkswagen Gross Return EUR	IXVOW3GR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Daimler Gross Return EUR	IXDAIGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Hermes Gross Return EUR	IXRMSGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Sanofi Gross Return EUR	IXSANGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Pernod Ricard Gross Return EUR	IXRIGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Total Gross Return EUR	IXTTEGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Nestle Gross Return CHF	IXNESNGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	CHF
iSTOXX Single Stock on Roche Gross Return CHF	IXROGGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	CHF
iSTOXX Single Stock on Siemens Gross Return EUR	IXSIEGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Allianz Gross Return EUR	IXALVGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Eni Gross Return EUR	IXENIGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on JPM Gross Return USD	IXJPMGR	10000	STOXX US Calendar	05 March 2021	Gross Return	USD
iSTOXX Single Stock on Intel Gross Return USD	IXINTCGR	10000	STOXX US Calendar	05 March 2021	Gross Return	USD
iSTOXX Single Stock on Volvo Gross Return SEK	IXVOLVGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	SEK
iSTOXX Single Stock on Engie Gross Return EUR	IXENGIGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on Orange Gross Return EUR	IXORAGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on AXA Gross Return EUR	IXCSGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR

115.iSTOXX ON SINGLE STOCK INDICES

iSTOXX Single Stock on Danone Gross Return EUR	IXBNGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on BBVA Gross Return EUR	IXBBVAGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on British American Tobacco Gross Return GBP	IXBATSGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	GBP
iSTOXX Single Stock on Royal Dutch Shell Gross Return EUR	IXRDSAGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on BASF Gross Return EUR	IXBASFGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on Bayer Gross Return EUR	IXBAYNGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on Bouygues Gross Return EUR	IXENGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on Société Générale Gross Return EUR	IXGLEGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on EDF Gross Return EUR	IXEDFGR	10000	STOXX Europe Calendar	19 January 2022	Gross Return	EUR
iSTOXX Single Stock on Leonardo Gross Return EUR	IXLDOGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Unicredit Gross Return EUR	IXUCGGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on UBS Gross Return CHF	IXUBSGGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	CHF
iSTOXX Single Stock on Walmart Gross Return USD	IXWMTGR	10000	STOXX US Calendar	05 March 2021	Gross Return	USD
iSTOXX Single Stock on Disney Gross Return USD	IXDISGR	10000	STOXX US Calendar	05 March 2021	Gross Return	USD
iSTOXX Single Stock on H & M Hennes & Mauritz Gross Return SEK	IXHMBGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	SEK
iSTOXX Single Stock on SSAB Gross Return SEK	IXSSABGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	SEK
iSTOXX Single Stock on Swedbank Gross Return SEK	IXSWEDGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	SEK
iSTOXX Single Stock on Deutsche Post Gross Return EUR	IXDPWGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Novartis Gross Return CHF	IXNOVNGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	CHF
iSTOXX Single Stock on Intesa Sanpaolo Gross Return EUR	IXISPGR	10000	STOXX Europe Calendar	05 March 2021	Gross Return	EUR
iSTOXX Single Stock on Repsol Gross Return EUR	IXREPGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on Telefonica Gross Return EUR	IXTEFGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	EUR
iSTOXX Single Stock on BP Gross Return GBP	IXBPGR	10000	STOXX Europe Calendar	05 July 2021	Gross Return	GBP
iSTOXX Single Stock on Zurich Insurance Gross Return CHF	IXZURNGR	10000	STOXX Europe Calendar	31 March 2022	Gross Return	CHF
iSTOXX Single Stock on Swiss Re Gross Return CHF	IXSRENGR	10000	STOXX Europe Calendar	31 March 2022	Gross Return	CHF
iSTOXX Single Stock on Swiss Life Gross Return CHF	IXSLHNGR	10000	STOXX Europe Calendar	31 March 2022	Gross Return	CHF
iSTOXX Single Stock on Stellantis Gross Return EUR	IXSTLGR	10000	STOXX Europe Calendar	05 May 2022	Gross Return	EUR
iSTOXX Single Stock on Enel Gross Return EUR	IXENELGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on CNH Industrial Gross Return EUR	IXCNHIGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on Mediobanca Banca di Credito Gross Return EUR	IXMBGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on Telecom Italia Gross Return EUR	IXTITGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR

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iSTOXX Single Stock on Poste Italiane Gross Return EUR	IXPSTGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on Assicurazioni Generali Gross Return EUR	IXGGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on KGHM Polska Miedz Gross Return PLN	IXKGHGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	PLN
iSTOXX Single Stock on Powszechny Zaklad Ubezpieczen Gross Return PLN	IXPZUGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	PLN
iSTOXX Single Stock on Powszechna Kasa Oszczednosci Bank Polski Gross Return PLN	IXPKOGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	PLN
iSTOXX Single Stock on Bank Polska Kasa Opieki Gross Return PLN	IXPEOGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	PLN
iSTOXX Single Stock on Erste Group Bank Gross Return EUR	IXEBSGR	10000	STOXX Europe Calendar	30 May 2022	Gross Return	EUR
iSTOXX Single Stock on Kering Gross Return EUR	IXKERGR	10000	STOXX Europe Calendar	22 August 2022	Gross Return	EUR
iSTOXX Single Stock on CGDE Michelin Gross Return EUR	IXMLGR	10000	STOXX Europe Calendar	22 August 2022	Gross Return	EUR
iSTOXX Single Stock on Carrefour Gross Return EUR	IXCAGR	10000	STOXX Europe Calendar	22 August 2022	Gross Return	EUR
iSTOXX Single Stock on Veolia Gross Return EUR	IXVIEGR	10000	STOXX Europe Calendar	22 August 2022	Gross Return	EUR
iSTOXX Single Stock on Anglo American Gross Return GBP	IXAALGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	GBP
iSTOXX Single Stock on ABN AMRO Bank Gross Return EUR	IXABNGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on Aegon Gross Return EUR	IXAGNGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on Banco BPM Gross Return EUR	IXBAMIGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on BPER Banca Gross Return EUR	IXBPEGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on ING Gross Return EUR	IXINGAGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on ArcelorMittal Gross Return EUR	IXMTGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on Rio Tinto Gross Return GBP	IXRIOGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	GBP
iSTOXX Single Stock on RWE Gross Return EUR	IXRWEGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on Tenaris Gross Return EUR	IXTENGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR
iSTOXX Single Stock on Klepierre Gross Return EUR	IXLIGR	10000	STOXX Europe Calendar	10 January 2023	Gross Return	EUR

If the underlying stock of a single stock index is delisted, then the respective single stock index will be terminated.

116. iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

116.1. iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

116.1.1. OVERVIEW

The iSTOXX Global Climate Change ESG Index track the performance of liquid securities from a selection of STOXX Benchmark Indices. The index[135] are constructed to follow the EU Paris-aligned Benchmark (EU PAB) requirements outlined in the Commission Delegated Regulation (EU) 2020/1818 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards minimum standards for EU Climate Transition Benchmarks and EU Paris-aligned Benchmarks[136]. The indices are designed to help investors align investments with the overall long-term global warming target of the Paris Agreement.

Companies identified as non-compliant based on Sustainalytics Global Standards Screening (GSS) assessment, are involved in Controversial Weapons or display a Severe (Category 5) Controversy Rating, as identified by Sustainalytics, are not eligible for selection. Tobacco Producers, as identified by ISS ESG, are also not eligible. Securities that generate revenues above a certain threshold from coal, oil and gas exploration or processing activities are excluded. Additionally, securities that derive higher than 10% of their revenues from thermal coal-based power generation, or higher than 50% from power generation with carbon intensity of lifecycle emissions higher than 100gCO_2e/kWh are not considered for selection. Furthermore, STOXX will exclude companies that ISS ESG assesses to have significant obstruction in the following UN SDGs: SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land.

The weighing process follows an optimization process to meet the minimum requirements detailed in the Commission Delegated Regulation (EU) 2020/1818. The index aims to reduce their greenhouse gases (GHG) emission intensity by at least 50% when compared to their underlying benchmarks. Additionally, they are designed to meet the year on year 7% decarbonization target. Scope 1, Scope 2 and Scope 3 emissions are used in the total emission considerations[137]. All of these emissions, including Scope 3, are used across all sectors from the first date of index construction.

The methodology ensures that the index exposure to 'High Climate Impact sectors', sectors that are key to low-carbon transition, is not underweighted relative to the investment universe. STOXX will classify the eligible securities into two sectoral groups: 'High Climate Impact' and 'Low Climate

[135] Regulation (EU) 2019/2089 amending Regulation (EU) 2016/1011 as regards EU Climate Transition Benchmarks, EU Paris-aligned Benchmarks and sustainability-related disclosures for benchmarks https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019R2089

[136] https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32020R1818

[137] Scope 1, Scope 2 and Scope 3 data obtained from ISS ESG. As a first step, ISS ESG collects all publicly available self-reported greenhouse gas emissions data from corporate disclosures such as CDP and CSR reports. Once self-reported emissions data from all available sources is collected, the data is tested for trustworthiness. This is done through a combination of quantitative and qualitative analysis.

116.iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

Impact'. This is based on the securities' NACE industry classification[138]. The securities in the index are weighted such that the total weight of the high climate impact components is at least equal to the total high climate impact weight in the corresponding STOXX Benchmark Index.

ISS ESG tracks companies that have disclosed science-based targets with the Science Based Targets initiative (SBTi)[139]. This comprises a list of securities that are setting greenhouse gas emission reduction targets in line with the goals of the Paris Agreement, i.e. to keep "global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius."[140] STOXX will use this information to identify which of these three groups companies belong to: (a) companies with concrete targets and emission reduction targets verified by SBTi, (b) companies that have committed to the SBTi but do not yet have approved targets, and (c) those that have not yet committed with the SBTi. The iSTOXX Global Climate Change ESG index overweighs companies with SBTi approved targets, and even more so those with SBTi approved targets and consistent 7% or more reduction in annual GHG intensity. Moreover, STOXX will allow up to 10 years of transition time for securities to commit and have their science-based targets approved and published by the SBTi. Starting in March 2021, securities that have not committed to the science-based initiatives will be underweighted incrementally and will not be eligible for selection starting in March 2025. Similarly, securities that are committed but do not have SBTi verified targets will be subjected to incremental underweighting (March 2021 to March 2030). From March 2030, the index will only include companies that have their targets approved and published by the SBTi. This is with the intention of incentivizing companies to commit and set science-based targets.

ISS ESG's Carbon Risk Rating data assesses companies' capacity to manage future climate change related challenges and opportunities arising from the transition to a low-carbon economy. The risk rating considers companies' risk profiles, industry-specific challenges, companies' positive impact and ability to seize opportunities. STOXX uses this forward-looking CO_2 risk analysis to overweigh climate leaders while laggards are underweighted.

ISS ESG's Carbon Budget data helps assess companies' alignment with different scenarios. This Carbon Budget data is used in the weighing process of the iSTOXX Global Climate Change ESG Index and to ensure the indices are aligned with the IEA Sustainable Development Scenario (SDS) pathway until 2050.

Universe: STOXX Global 1800 Index, as observed on the review effective date.

[138] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as "High Climate Impact" and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as "Low Climate Impact". Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

[139] https://sciencebasedtargets.org/; the SBTi is a collaboration between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI), the World Wide Fund for Nature (WWF), and one of the We Mean Business Coalition commitments

[140] https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement

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Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process to meet the EU PAB recommendations

Base value and date: 100 on Mar 19, 2018

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar.

116.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Controversy Ratings:
STOXX will exclude companies that Sustainalytics identifies to have a Controversy Rating of Category 5 (Severe).

Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest Event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

Military Equipment:
STOXX will exclude companies that ISS-ESG identifies to have:

- >5% revenues from involvement in the production of military equipment and/or the provision of related services

Tobacco:
STOXX will exclude companies that ISS-ESG identifies to be Tobacco Producers (0% revenue threshold).

The remaining securities in the universe list are screened for the following fundamental values (i and ii) and ISS ESG carbon and climate related indicators (iii to xiii):

i. 3-month Average Daily Traded Volume (ADTV) in EUR
ii. Enterprise value including cash (EVIC) based on the fiscal year data for the end of the last calendar year
iii. Emissions data: Scope 1, Scope 2 and Scope 3 emissions
The GHG Protocol Corporate Standard classifies companies' greenhouse gas (GHG) emissions as direct and indirect emissions[141]. Direct emissions, also known as Scope 1 emissions, refer to GHG waste produced and consumed by the reporting entity. For instance, on-site generation and use of energy is tracked under Scope 1. In contrast, indirect emissions, comprised of Scope 2 and Scope 3 emissions, occur as a consequence of the reporting company, but are generated by another entity. Scope 2 includes acquired/ purchased energy brought into the company's reporting boundary as a form of: electricity, steam, heating and cooling, and the rest of the indirect emissions form Scope 3 emissions. Any emissions associated with upstream and downstream processes, excluding Scope 2 emissions, are accrued towards Scope 3. Business travel, processing of sold products, transportation and distribution are all examples of Scope 3 emissions[142].
iv. Percentage of revenues from coal: this looks at the securities' revenue generated from coal exploration, production (excluding power generation), distribution, and supporting products and services. Power generation revenue share is considered separately and detailed in vi.
v. Percentage of revenues from fossil fuel exploration, production (excluding power generation), distribution and provision of supporting products and services: this looks at companies' revenue share in fossil fuels, including coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands. Power generation revenue share is considered separately and detailed in vii.
vi. Thermal coal-based power generation revenues: this looks at percentage of revenues derived from power generation coming solely from thermal coal.
vii. Power Generation revenue percentage coming from coal, oil and gas: electricity generation lifecycle assessment shows that GHG emissions coming from coal, oil and natural gas exceed 100 gCO_2e/kWh; similar assessment on renewable energy and nuclear power sources shows that the lifecycle GHG emissions is well below 100 gCO_2e/kWh[143]. For this data point, ISS ESG considers coal, oil and gas-based power generation revenues.

[141] https://ghgprotocol.org/sites/default/files/standards/Scope%202%20Guidance_Final_Sept26.pdf

[142] http://www.ghgprotocol.org/sites/default/files/ghgp/standards/Scope3_Calculation_Guidance_0.pdf

[143] https://www.ipcc.ch/site/assets/uploads/2018/03/SRREN_Full_Report-1.pdf

viii. UN SDGs: the ISS ESG SDG Impact Rating identifies companies' positive and negative impact towards the UN Sustainable Development Goals (UN SDGs) across three pillars: Product & Services, Operations and Controversies. STOXX will use the dataset to minimize index exposure to obstructions in the 4 environmental related UN SDGs, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land, by screening out companies identified to have significant obstruction in these areas.

ix. Carbon Risk Rating: ISS ESG evaluates companies' capacity to cope with future challenges related to climate change and to seize opportunities arising from a transition to a low-carbon economy. This data will be used to overweigh climate leaders, and climate laggards will be underweighted.

x. Carbon Budget: ISS ESG Carbon Budget data helps assess companies' alignment with different scenarios. STOXX will use this Carbon Budget data in the weighing process of the STOXX Paris-Aligned Benchmark Indices and to ensure the indices are aligned with the IEA Sustainable Development Scenario (SDS) pathway until 2050.

The ISS ESG scenario analysis combines the IEA scenario with the Sectoral Decarbonization Approach (SDA) by allocating a share of a global carbon budget to every company based on its market share and the IEA/SDA emissions scenario associated with its sector.

xi. Percentage of revenues from green sources: revenues coming from renewable energy sources such as: wind, solar, hydro, biomass and geothermal sources. Nuclear Power is also considered as a green revenue source. In addition to these, the definition of green revenues extends to revenues that contribute to UN Sustainable Development Goal (SDG) 13, Climate Action.

xii. Percentage of revenues from brown sources: any revenues from fossil fuels (coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands) and the provision of supporting products or services is considered as brown revenue. The definition of brown revenues also extends to revenues that are obstructive to UN Sustainable Development Goal (SDG) 13, Climate Action.

Green and brown energy revenue shares will be used in the construction of the indices to ensure the total green share / brown revenue share of the STOXX Paris-Aligned Benchmark Indices is at least four times that of the underlying benchmarks' green to brown revenue shares.

xiii. Science-based Climate Targets: ISS ESG tracks securities that have disclosed science-based targets in line with the level of decarbonization required to keep global temperature increase below 2°C. STOXX will use this data to identify which of the following three groups companies fall into:

a. companies with concrete targets and emission reduction targets verified by the SBTi
b. companies that have committed with the SBTi but do not yet have approved science-based targets. Committed companies have 24 months to have their targets approved and published by the SBTi
c. companies that have not committed with SBTi

Securities with targets verified by the SBTi will be overweighed in the index. Securities with no commitments or no SBTi approved targets will be subjected to incremental underweighting and will not be eligible for selection starting 2025 and 2030 respectively.

If any of the i to x fields are unavailable for a security, the company will not be eligible for selection. Additionally, if a security does not have green or brown revenue share data, STOXX will assume

the revenue share in these areas to be zero. STOXX will assume that a security is not committed if no science-based climate target data is available for it.

The selection list is made of all the remaining stocks that fulfil the conditions below:

- Liquidity requirements: 3-month ADTV equal to or exceeding 3 million EUR
- Activity exclusions: Companies that generate revenues above the specific thresholds with respect to the activities below are not eligible for selection:
    - STOXX will exclude companies that ISS ESG identifies to have 1% or higher revenues from coal exploration, production (excluding power generation), distribution and supporting product and services
    - STOXX will exclude companies that ISS ESG identifies to have 10% or higher revenues from fossil fuel exploration, production (excluding power generation), distribution and supporting products and services
    - STOXX will exclude companies that ISS ESG identifies to have 10% or higher revenues from thermal coal-based power generation
    - STOXX will exclude companies that ISS ESG identifies to have 50% or higher revenues from power generation with carbon intensity of lifecycle GHG emissions higher than 100g CO_2e/kWh
- STOXX will exclude companies that ISS ESG assesses to have significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15

Composition list:

- The final composition list comprises all the securities that fulfil the requirements listed above. The securities' weights are derived through an optimization process and designed to meet the following requirements:

EU PAB Minimum requirements	iSTOXX Global Climate Change ESG Index
Minimum Scope 1+2+3 GHG intensity reduction compared to the corresponding STOXX Benchmark Index The GHG intensity of a security is calculated as: $\frac{Scope\ 1 + Scope\ 2 + Scope\ 3\ GHG\ Emissions}{Enterprise\ Value\ including\ Cash\ (in\ MEUR)}$	At least 60% (includes a 10% buffer)
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum exposure to sectors highly exposed to climate change issues compared to the underlying STOXX Benchmark Index	At least equal

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These sectors are identified as "High Climate Impact" based on NACE section codes[144]	
Corporate target setting (CTS)	The Corporate target setting score aims to ensure that companies with Science Based Target are overweighed and that: - by 2025, all companies in the index are committed to reducing their GHG emissions, and - by 2030, all companies in the index have SBTi approved science-based targets In more details: 1. Companies that have science-based targets approved and reported through the Science Based Target initiative and have reduced their total GHG emission intensity (Scope 1,2 and 3 emissions) by an average of at least 7% per annum for at least 3 consecutive years will have their weights increased by 1/3 2. Companies that have science-based targets approved and reported through the Science Based Target initiative but have not fulfilled the above carbon reduction criteria will have their weights increased by 1/5 3. Companies that are committed to reducing their GHG emissions but do not yet have science-based targets approved by the Science Based Target initiative will have their weights reduced by Y/10 where Y is the number of years since 2020 4. Companies that are not committed to reducing their GHG emissions will have their weight reduced by Y/5 where Y is the number of years since 2020
Additional considerations	iSTOXX Global Climate Change ESG Index

[144] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as "High Climate Impact" and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as "Low Climate Impact". Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

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Alignment with ISS ESG scenario alignment approach for the IEA Sustainable Development Scenario (SDS) pathway	The emissions pathway of the indices must be below the carbon budget for the SDS pathway of the current year and 2050
Carbon Risk Rating tilt	Climate leaders are overweighed, and climate laggards are underweighted
Carbon Budget risk tilt	Companies that are well positioned to meet their carbon budget are overweighed
Minimum green share / brown share ratio compared to the underlying STOXX Benchmark Index	At least 4 times
Diversification	Exposure to a single NACE Section is within 5% of the of the underlying STOXX Benchmark Index exposure If the underlying benchmark's exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[145] weights will be imposed for the PAB index. In this case, the STOXX PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying STOXX Benchmark Index exposure by higher than 5% Country exposure is within 5% of the country weight in the underlying benchmark
Weight capping	Maximum weight: 4.5% Minimum weight: 0.001%

Weighting and capping factors:
The weights are derived though an optimization process with the goal to have a portfolio which is in line or beyond the decarbonization trajectory from the IPCC's 1.5°C scenario and that overweighs companies with a clear and proved evidence-based carbon reduction target as verified by SBTi.

Target weight calculations:
The target weight is defined according to the free-float market capitalization subject to the corporate target setting and carbon risk rating multipliers, as follows:

$$w_i = \frac{ffmcap_i \cdot CTS_i * CR_i}{\sum_j^n ffmcap_j \cdot CTS_j * CR_j}$$

Where:

[145] NACE Division is a step lower (more granular) from the NACE Section code

CTS_i	= (1 + 1/3) if a company has verified science-based targets in accordance to the SBTi and has reduced its GHG intensity by an average of at least 7% per annum for at least 3 consecutive years
	= (1 + 1/5) if a company has verified science-based targets in accordance to the SBTi but has not fulfilled the above GHG intensity reduction criteria
	= (1 – min(1, Y/10)) if a company is committed to reducing its GHG emissions but does not have science-based targets approved by the SBTi
	= (1 – min(1, Y/5)) if a company is not committed to reducing its GHG emissions
Y	number of years since 2020. Y is 0 for 2020 and earlier years
N	number of components in the index
CR_i	= (1 + CR_z_i) if CR_z_i >0
	= (1 - $CR_z_i)^{-1}$ if CR_z_i <=0
CR_z_i	= CRR_z_i - CBR_z_i

CRR_z_i= zeta score of the company's Carbon Risk Rating, as defined by ISS ESG

CBR_z_i = zeta score of the company's Carbon Budget risk, calculated as

$$CBR_i = \frac{\sum \varphi_j * ln\left(\frac{current\ carbon\ emission_i}{carbon\ budget_{i,j}}\right)}{\sum \varphi_j}$$

Where: $\varphi_j = (1-\lambda) * \lambda^j, \quad j = 0, \dots, 2050 - current\ year$

$\lambda = 0.94$ (standard decay factor[146])

Capped weight calculations:

The capped weights cw_i are derived from target weights via an optimization that minimizes the relative squared difference between the target weights and the capped weights while ensuring that the year-on-year self-decarbonization fulfils the criteria of at least 7% on average starting from 2022 with respect to 2021. The optimization is performed to arrive at the weights subject to constraints to ensure that the composition fulfils the minimum requirements:

$$cw_i = argmin_{cw}\left(\sum_{i=1}^{n}\left(\frac{(cw_i - w_i)^2}{w_i}\right)\cdot\frac{1}{n} + \frac{(Previous\ year's\ GHG\ intensity\ reduction - 0.07)^2}{0.07}\right)$$

The previous year's GHG intensity reduction (starting from 2022 with respect to 2021) is calculated as:

[146] Standard decay factor, suggested and used by Riskmetrics

$$1-\left(\frac{Index\ GHG\ Intensity_{current}\cdot(Inflation\ Adjustment\ Factor)}{Index\ GHG\ Intensity_{previous\ year-end}}\right)$$

where $Index\ GHG\ Intensity_t = \sum_{i=1}^{n}\left(w_{i,t}\cdot Security\ GHG\ Intensity_{i,t}\right)$ and $w_{i,t}$ is the weight of company i in the index at time t.

In calculating the previous year's GHG intensity reduction, the current GHG intensity is multiplied by the enterprise value inflation adjustment factor[147] in order to reflect the effects of inflation in enterprise values as an increasing average enterprise value of the index constituents could lead to an overall GHG intensity reduction where no actual GHG emissions reductions took place.

The following are the constraints of the optimization:

a) Maximum security weight of 4.5%, and minimum weight of 0.001%:

b) The GHG intensity reduction of the index, $\sum_{i=1}^{n}(cw_i\cdot Security\ GHG\ Intensity_i)$ should be at least 60% when compared to the underlying STOXX Benchmark Index GHG Intensity

c) Year-on-year GHG intensity reduction of at least 7% starting from 2022 with respect to 2021. The year-on-year carbon reduction included is calculated as:

$$1-\left(\frac{Index\ GHG\ Intensity_{current}\cdot Cumulative\ Inflation\ Adjustment\ Factor}{Index\ GHG\ Intensity_{2021\ year-end}}\right)^{1/T}$$

where *T* is the number of years since 2021

d) The green revenue share / brown revenue share of the index, $\frac{\sum_{i=1}^{n}(cw_i\cdot Green\ Revenue\ \%_i)}{\sum_{i=1}^{n}(cw_i\cdot Brown\ Revenue\ \%_i)}$, is at least 4 times that of the underlying STOXX Benchmark Index

e) The total exposure of components in the "High Climate Impact" according to NACE classification is at least equal to the corresponding STOXX Benchmark Index

f) The exposure to a single NACE Section code is within 5% of the underlying STOXX Benchmark Index exposure

If the underlying STOXX Benchmark Index exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division weights will be imposed for the PAB index. In this case, the STOXX PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying STOXX Benchmark Index exposure by higher than 5%

[147] The enterprise value inflation adjustment factor is computed by dividing the average enterprise value of the index constituents at the end of calendar year by the average enterprise value of the index constituents at the end of the previous calendar year and has a minimum value of 1

g) The exposure to a country is within 5% of the STOXX Benchmark Index

h) The emission pathway of the index must be below its carbon budget for the IEA Sustainable Development Scenario (SDS) pathway of the current year and 2050. This is to ensure that the index is aligned with the SDS pathway decarbonization trajectory until 2050

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Review frequency:
The review is conducted on an annual basis in March. On a quarterly basis in June, September and December, the indices are rebalanced to consider changes in free-float or shares in issue. Furthermore, current components are screened for compliance and involvement. The cut-off date for the underlying data is the last calculation day of February, May, August and November respectively

116.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: In case a company which is an index constituent increases its ESG Controversy Rating to Category 5 and becomes non-compliant based on the Sustainalytics Global Standards Screening assessment, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

116.1.4. SUMMARY

Summary	iSTOXX Global Climate Change ESG Index
Universe	STOXX Global 1800
Screens	
Baseline Exclusions	Global Standards Screening Controversial Weapons Tobacco producers Significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15

116.iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

	Severe (level 5) Controversy Rating
Liquidity Requirements	3-month ADTV equal to or exceeding 3 million EUR
Activity Exclusions	Revenues from Coal activities: 1% or higher Revenues from Fossil Fuel activities: 10% or higher Revenues from power generation coming from Coal: 10% or higher Revenues from power generation coming from Coal, Oil & Gas: 50% or higher Revenues from military equipment: 5% or higher
Weighing process: weights derived through an optimization process to meet EU PAB requirements	
Minimum Scope 1+2+3 GHG intensity reduction compared to corresponding STOXX Benchmark Index Scope 1, 2 and 3 emissions, are used across all sectors from the first date of index construction	At least 60% (includes a 10% buffer)
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum green share / brown share ratio compared to the underlying STOXX Benchmark Index	At least 4 times
Minimum exposure of sectors highly exposed to climate change compared to the underlying STOXX Benchmark Index	At least equal
Corporate target setting (CTS)	Securities' free float market cap weights tilted with CTS score to favor securities with science-based targets. CTS scores assigned as follows:

116.iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

CTS score	2020	2021	…	2025	…	2029	2030 and later
Committed, has SBTi verified targets, and reduces GHG emission (>= 7%/annum for 3 years)	1+1/3 = 4/3						
Committed, has SBTi verified targets, but does not reduce GHG emissions by 7% per annum	1+1/5 = 6/5						
Committed but does not have SBTi approved targets	1	9/10	…	5/10	…	1/10	0
Not committed	1	4/5	…	0			

Additionally, Carbon Budget and Carbon Risk score and will be used to tilt the weights further. Tilt factor obtained as follows:

CR_i = (1 + CR_z_i) if CR_z_i >0

= (1 - CR_z_i)$^{-1}$ if CR_z_i <=0

CR_z_i = CRR_z_i - CBR_z_i

CRR_z_i= zeta score of the company's Carbon Risk Rating, as defined by ISS ESG

CBR_z_i = zeta score of the company's Carbon Budget risk, calculated as

$$CBR_i = \frac{\sum \varphi_j * ln\left(\frac{current\ carbon\ emission_i}{carbon\ budget_{i,j}}\right)}{\sum \varphi_j}$$

Where: $\varphi_j = (1-\lambda) * \lambda^j, j = 0, \dots, 2050 - current\ year$

$\lambda = 0.94$ (standard decay factor[148])

$w_i = \frac{ffmcap_i \cdot CTS_i * CR_i}{\sum_j^n ffmcap_j \cdot CTS_j * CR_j}$; where w_i is the weight of security i

[148] Standard decay factor, suggested and used by Riskmetrics

116.iSTOXX GLOBAL CLIMATE CHANGE ESG INDEX

Diversification	Exposure to a single NACE Section is within 5% of the of the underlying STOXX Benchmark Index exposure If the underlying benchmark's exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[149] weights will be imposed for the PAB index. In this case, the STOXX PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying STOXX Benchmark Index exposure by higher than 5% Country exposure is within 5% of the country weight in the underlying benchmark
Weight Capping	Maximum weight: 4.5% Minimum weight: 0.001%
Selection and Weighing Frequency	
Review and Rebalancing	Review is conducted on an annual basis in March, and rebalanced quarterly in June, September and December

[149] NACE Division is a step lower (more granular) from the NACE Section code

117. EURO iSTOXX 50 DIGITAL SECURITY TILTED INDEX

117.1. EURO iSTOXX 50 DIGITAL SECURITY TILTED INDEX

117.1.1. OVERVIEW

The EURO iSTOXX 50 Digital Security Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest securities form the STOXX Global Digital Security Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Digital Security Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization and revenue exposure to the Digital Security theme.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

117.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the STOXX Global Digital Security Index that have 3-month Average Daily Traded Volume (ADTV) equal to or exceeding 10 million EUR constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list from the STOXX Global Digital Security Index are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities that are not already part of the EURO STOXX 50 are selected. The resulting EURO iSTOXX 50 Digital Security Tilted Index comprises 60 securities: 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Digital Security Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, revenue exposure and multipliers such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from the STOXX Global Digital Security Index (DS companies) 20% of the EURO iSTOXX 50 Digital Security Tilted Index.

117. EURO iSTOXX 50 DIGITAL SECURITY TILTED INDEX

The EURO STOXX 50 company weights are capped at 10% within the EURO STOXX 50 company weights, 8% in the final index (0.8 x 10%). Additionally, the 10 DS company weights are capped at 25% within the DS company weights, hence capped at 5% in the final index (0.2 x 25%). The overall exposure to Japanese securities is also capped at 50% within the DS company weights, 10% in the final index (0.2 x 50%).

$w_i = 0.8\ x\ \frac{ffmcap_i}{\sum_{j=1}^{50} ffmcap_j}$; weight capped at 10% within the EURO STOXX 50 companies

$w_k = 0.2\ x\ \frac{ds_k * ffmcap_k}{\sum_{l=1}^{10} ds_l * ffmcap_l}$; weight capped at 25% within the DS companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index (max 8% within the new index)
k,l	the 10 selected securities from the STOXX Global Digital Security Index
w_k	weight of the 10 DS securities in the new index (max 5% within the new index)
$ffmcap$	free float market capitalization
ds_k	the total revenue exposure of company k to the Digital Security RBICS sectors[150]

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

117.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

[150] Please refer to the STOXX Index Guide for the full list of Digital Security RBICS sectors used for the STOXX Global Digital Security Index

118. EURO iSTOXX 50 BROAD INFRASTRUCTURE TILTED INDEX

118.1. EURO iSTOXX 50 BROAD INFRASTRUCTURE TILTED INDEX

118.1.1. OVERVIEW

The EURO iSTOXX 50 Broad Infrastructure Tilted Index tracks the performance of all of the EURO STOXX 50 securities and the 10 largest securities form the STOXX Global Broad Infrastructure Index. The index is reviewed quarterly in March, June, September and December.

Universe: EURO STOXX 50 Index and STOXX Global Broad Infrastructure Index, as observed on the review effective date.

Weighting scheme: The index is price weighted with weight factors based on free-float market capitalization.

Base values and dates: 100 on Jun 18, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

118.1.2. INDEX REVIEW

Selection list:
All of the securities in the EURO STOXX 50 Index, and securities belonging to Japan, US, Switzerland or the developed markets of the Eurozone from the STOXX Global Broad Infrastructure Index that have 3-month Average Daily Traded Volume (ADTV) equal to or exceeding 10 million EUR constitute the selection list.

Composition list:
All of the EURO STOXX 50 Index constituents are selected. The remaining companies in the selection list from the STOXX Global Broad Infrastructure Index are ranked in descending order in terms of their free float market capitalization. The top 10 largest securities that are not already part of the EURO STOXX 50 are selected. The resulting EURO iSTOXX 50 Broad Infrastructure Tilted Index comprises 60 securities: 50 from the EURO STOXX 50 Index and 10 from the STOXX Global Broad Infrastructure Index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Weighting and capping factors:
The index is price weighted with weight factors based on free-float market capitalization, such that, the companies of the EURO STOXX 50 account for 80% and the 10 companies selected from the STOXX Global Broad Infrastructure Index (BI companies) 20% of the EURO iSTOXX 50 Broad Infrastructure Tilted Index.

118. EURO iSTOXX 50 BROAD INFRASTRUCTURE TITLED INDEX

The EURO STOXX 50 company weights are capped at 10% within the EURO STOXX 50 company weights, 8% in the final index (0.8 x 10%). Additionally, the 10 BI company weights are capped at 25% within the BI company weights, hence capped at 5% in the final index (0.2 x 25%).The overall exposure to Japanese securities is also capped at 50% within the BI company weights, 10% in the final index (0.2 x 50%).

$w_i = 0.8\ x\ \frac{ffmcap_i}{\sum_{j=1}^{50} ffmcap_j}$; weight capped at 10% within the EURO STOXX 50 companies

$w_k = 0.2\ x\ \frac{ffmcap_k}{\sum_{l=1}^{10} ffmcap_l}$; weight capped at 25% within the BI companies

Where:

i, j	EURO STOXX 50 constituents
w_i	weight of the EURO STOXX 50 security in the new index (max 8% within the new index)
k,l	the 10 selected securities from the STOXX Global Broad Infrastructure Index
w_k	weight of the 10 BI securities in the new index (max 5% within the new index)
$ffmcap$	free float market capitalization

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

118.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

119. iSTOXX ACCESS METAVERSE INDEX

119.1. iSTOXX ACCESS METAVERSE INDEX

119.1.1. OVERVIEW

The iSTOXX Access Metaverse Index tracks the performance of equities listed on global recognized stock exchanges that exhibit business characteristics related to the Metaverse. The Metaverse can be described as the next iteration of the internet which will place users inside a shared virtual environment which is persistent, live in its interaction with the real world, and affords individuals a sense of social and economic participation.

The index composition is reviewed semi-annually, and its constituents are weighted by free-float market capitalization, with maximum and minimum weight caps.

Universe:

The Index Universe is defined by all stocks included in the indices below, as observed on the review effective date:

a. STOXX Global TMI
b. STOXX China ADR TMI
c. STOXX China P Chips TMI.

Weighting scheme: Price weighted with weighting factors based on free-float market capitalization subject to:
1) maximum weight of 5%,
2) minimum weight of 5 bps for current components and 10 bps for new components.

Base values and dates: 100 on Aug 21, 2017

Index types and currencies: Price, net return, gross return in USD

Dissemination calendar : STOXX Europe calendar

119.1.2. INDEX REVIEW

Selection List
The index constituents are selected on a semi-annual basis in February and August. The review cut-off date is the last dissemination day of the preceding month. The selection is done as follows:

Exchange Screening
Only securities traded on the following exchanges are eligible for selection:

119. iSTOXX ACCESS METAVERSE INDEX

Exchange
ASX
EURONEXT (BE)
EURONEXT (FR)
EURONEXT (NL)
EURONEXT (PT)
Hong Kong Stock Exchange
Johannesburg Stock Exchange
KRX Korea Exchange
LSE
Milan
NASDAQ Global Market
NASDAQ Capital Market
NYSE MKT LLC (AMEX)
NZX
New York Stock Exchange
OMX (DK)
OMX (FI)
OMX (SE)
Oslo
SIBE
SIX Swiss Exchange
Singapore Exchange
Stockholm (NGM)
Taiwan Stock Exchange Corp
Tokyo Stock Exchange
Toronto Stock Exchange
Warsaw
XETRA (AT)
XETRA (DE)
EURONEXT (IE)

Metaverse Segments Screening
Eligible securities will derive 20% or more of their revenues from at least one of the below categories which are deemed to be fundamental to the development of the Metaverse. Syntax LLC's Functional Information System database is used for the above purposes.

- 3D Application Development & Augmented Reality/Virtual Reality
- 5G Enabling Technology

- Payment and Asset Services
- High Performance Computing and Data
- Internet of Things
- Social Media & Gaming

ESG Screening
The companies are further screened for the following criteria:

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.
The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons, and white phosphorus weapons.
The criteria for involvement are:
» Internal production or sale of controversial weapons
»The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company.

Product Involvement: STOXX will exclude companies that Sustainalytics identifies to have:

- **Tobacco:**

»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

- **Conventional Oil & Gas:**

»>5% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).

»>5% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation, and storage (proxy: revenues)

»>5% revenues from generating electricity from oil and/or gas (proxy: generating capacity)
Companies that pass the oil & gas power generation screen are additionally assessed for any increase in capacity in this area, as measured at the index cut-off date. Companies with any

increase in installed capacity percentage in generating electricity from oil and/or gas will not be eligible for selection.

- **Unconventional Oil & Gas:**

  i) **Arctic Oil and Gas Exploration:**
  »>5% revenues Oil & Gas exploration & extraction in Arctic regions
  ii) Oil Sands:
  »>5% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day
  iii) Shale Energy:
  »>5% revenues from shale energy exploration and/or production

Companies that pass the unconventional oil and gas screens are additionally assessed for any increase in revenues or capacity in these areas, as measured at the index cut-off date. Companies with any increase in installed capacity percentage in oil sands extraction, or any increase in revenue percentage in Arctic oil & gas or shale energy extraction will not be eligible for selection.

- **Thermal Coal:**
  »>5% revenues from thermal coal extraction (including thermal coal mining and exploration)

  »>5% revenues from providing tailor-made products and services that support thermal coal extraction

  »>5% power generation capacity: coal-fired electricity, heat, or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Companies that pass the thermal coal screens are additionally assessed for any increase in revenues or capacity in these areas, as measured at the index cut-off date. Companies with any increase in installed capacity percentage in thermal coal power generation, or any increase in revenue percentage in thermal coal extraction will not be eligible for selection.

- **Nuclear Power:**
  »>5% revenues from nuclear power production:
  - Utilities that own/operate nuclear power generators

    Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

  »>25% revenues from nuclear power supporting products / services, including:
  - Design and construction of nuclear power plants
  - Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls

- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance.
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:

- The resale or distribution of electricity generated from nuclear power.
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  1. Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Companies that pass the nuclear power screens are additionally assessed for any increase in revenues or capacity in these areas, as measured at the index cut-off date. Companies with any increase in installed capacity percentage in nuclear power production, or any increase in revenue percentage in nuclear power supporting products / services or nuclear power distribution will not be eligible for selection.

- **Weapons:**

  i) Small Arms:

  »>5% revenues from manufacturing and selling assault weapons to civilian customers

  »>5% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

  »>5% revenues from manufacturing and selling key components of small arms

  »>5% revenues from retail and/or distribution of assault weapons

  »>5% revenues from retail and/or distribution of small arms (non-assault weapons)

  »>5% revenues from manufacturing and selling small arms to military / law enforcement customers

  ii) Military Contracting:

  »>5% revenues from manufacturing military weapons systems and/or integral, tailor-made components of these weapons

  »>5% revenues from tailor made products and/or services that support military weapons

  »>5% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

Where data is unavailable for any security for any of the ESG screens, it will be excluded from the selection process.

Size, Liquidity, and Secondary Line Screening:
Finally, the following screens are applied using data as of the review cut-off date:

119. iSTOXX ACCESS METAVERSE INDEX

- **Size:** free-float market capitalization of at least 200,000,000 USD, unless such security is an existing index component, in which case, the free-float market capitalization must be at least 150,000,000 USD.
- **Minimum Liquidity:** 3-month average daily trading value (ADTV) of at least 1,000,000 USD.
- **Secondary Lines Eligibility:** In case a company has multiple share lines, only the most liquid share line is retained.

Review frequency: The reviews are conducted on a semi-annual basis in February and August, implemented on the third Friday and effective on the following trading day. The review cut-off date is the last dissemination day of the preceding month.

Weighting and capping factors:
The weight of each remaining security is constructed by applying the following rules in a sequential manner:

1) Securities are ranked in descending order by free-float market capitalization. The percentage of free-float market capitalization is calculated for each security.

2) The weight for any security is capped at 5%. To achieve this, the weight of any security greater than 5% is reduced to 5% and the excess weight is redistributed to the rest of the securities that are not already subject to capping, proportionally to their free-float market capitalization weight. This step is repeated until no security is allocated a weight greater than 5%.

3) Based on the re-weighted list from Step 2, any security with a weight less than 0.1% is removed, unless such security is an existing index component, in which case its weight must be less than 0.05% to be removed.

4) The aggregate weight of the securities removed in Step 3 is re-distributed to the remaining index components and the capping methodology in Step 2 is repeated until no security is allocated a weight greater than 5%.

At the end of each month between the review dates and excluding the end of month for the review months, the weight of each company within the index cannot exceed 15%. The residual weight shall be distributed across all remaining index components proportionally to their weight.

The index weight factors are calculated on a semi-annual basis in February and August.
They are published on the second Friday of these months based on the stocks´ close prices in EUR of the preceding Thursday. Weighting factor = stock's target weight x (1,000,000,000 / closing price of the stock in EUR), rounded to the nearest integer.

Securities removed from STOXX Global TMI, STOXX China ADR TMI and STOXX China P Chips TMI during their standard quarterly reviews (March, June, September, December) will concurrently be removed from the indices.

119. iSTOXX ACCESS METAVERSE INDEX

119.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

120. EURO iSTOXX SECTOR EXCLUSIONS INDEX

120.1. EURO iSTOXX SECTOR EXCLUSIONS INDEX

120.1.1. OVERVIEW

EURO iSTOXX Sector Exclusions index is designed to measure the constituents of the EURO STOXX index, excluding companies within certain ICB Industries and ICB Sectors.

Universe: The index universe is defined by the parent index, the EURO STOXX index.

Weighting scheme: The indices are weighted according to free-float market capitalization with a capping at 5%.

Base values and dates: 100 on Jun 19, 2006

Index types and currencies: Price, net return and gross return in EUR.

Dissemination calendar : STOXX Europe calendar

120.1.1. INDEX REVIEW

Selection list: A set of exclusion criteria based on the ICB classification system are applied.

1. ICB Industry Energy
   - Effective up until September 2020 Review, identified by ICB Industry code 0000.
   - Effective with September 2020 Review, identified by ICB Industry code 60.
2. ICB Industry Basic Materials
   - Effective up until September 2020 Review, identified by ICB Industry code 1000.
   - Effective with September 2020 Review, identified by ICB Industry code 55.
3. ICB Industry Utilities
   - Effective up until September 2020 Review, identified by ICB Industry code 7000.
   - Effective with September 2020 Review, identified by ICB Industry code 65.
4. ICB Industry Industrials except ICB Sector Electronic and Electrical Equipment
   - Effective up until September 2020 Review, identified by ICB Industry code 2000, except ICB Sector code 2730.
   - Effective with September 2020 Review, identified by ICB Industry code 50, except ICB Sector code 502020.

Composition list: All remaining stocks are selected for inclusion.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting cap factors: The initial weights are defined based on free-float market capitalization. The capped weights w_i are derived from the initial weights via an iterative process that seeks to cap the weight of each component at 5%. To that end, any excess weight from

the components with weights capped is redistributed to the rest of the components of the index that are not already subject to capping, proportionally to their initial weights in the index. The weighting cap factors are published on the second Friday of each review month, using Thursday's closing prices.

120.1.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

121. iSTOXX BANK AUTO & BASIC RESOURCES EW INDEX

121.1. iSTOXX BANK AUTO & BASIC RESOURCES EW INDEX

121.1.1. OVERVIEW

The aim of the iSTOXX Bank Auto & Basic Resources EW Index is to invest an equal, fixed proportion into each of the underlying indices. The strategy takes the average of the daily performance of each basket component into account. For this index the basket will be composed of the Gross Return versions of the STOXX Europe 600 Automobiles & Parts, EURO STOXX Banks and STOXX Europe 600 Basic Resources Indices.

Universe: Gross Return versions of the STOXX Europe 600 Automobiles & Parts, EURO STOXX Banks and STOXX Europe 600 Basic Resources Indices

Index types and currencies: Gross Return in EUR

Base values and dates: 100 on Dec 29, 2000

Dissemination calendar: STOXX Europe Calendar

121.1.2. INDEX FORMULA

The strategy takes the average of the daily performance of each basket component, with the index level being calculated as follows:

$$IV_t = \mathrm{IV}_{t-1} * \left(\frac{U1_t}{U1_{t-1}} * W1 + \frac{U2_t}{U2_{t-1}} * W2 + \frac{U3_t}{U3_{t-1}} * W3 + \mathrm{a}\right) + \mathrm{b}$$

Where:
IV_t = Index value on day t.
U_t = Underlying Indices value on day t (STOXX Europe 600 Automobiles & Parts GR, EURO STOXX Banks GR and STOXX Europe 600 Basic Resources GR Indices).
W = Weight of each component (all set to 1/3).

Constants a and b = 0.

122. iSTOXX WORLD MIN VOL ESG INDEX

122.1. iSTOXX WORLD MIN VOL AND MIN VOL ESG INDICES

122.1.1. iSTOXX WORLD MIN VOL INDEX

122.1.1.1. OVERVIEW

The iSTOXX World Min Vol index (iSTOXX World MV) is designed to track the performance of an optimized minimum variance portfolio that will incorporate tilts towards companies that exhibit low volatility and favorable fundamentals (specifically profitability and leverage). The index is constructed by creating a minimum variance portfolio based on the STOXX World AC index and requiring that the ISS climate score of the portfolio is no worse than the parent index. The index rules ensure tradability, diversification, positive exposure to fundamental quality (i.e., positive exposure to profitability and low leverage), and untargeted factor and industry/country/region exposures are risk managed.

Universe: STOXX World AC constituents

Weighting scheme: The indices are price weighted according to a constrained minimum variance optimization model.

Base values and dates: The following base values and dates apply: 100 on June 18, 2018.

Index types and currencies: Price, net, and gross return in GBP and USD.

Dissemination calendar: STOXX Europe calendar

122.1.1.2. INDEX REVIEW

Selection list:

The portfolio construction is performed using Axioma's world-wide WW4AxiomaMH model and portfolio optimization software.

The objective of the optimization problem is to minimize ex-ante variance of the portfolio.

Minimize : $(w)^T(BVB^T + \Delta^2)\, w$

where

w = Index weights

B = Exposure matrix, its elements denote each asset's exposure/loading to a particular factor

122. iSTOXX WORLD MIN VOL ESG INDEX

V = Factor covariance matrix from Axioma Risk Model

Δ^2 = Specific variance matrix from Axioma Risk Model.

The following constraints are enforced to ensure diversification and control for unintended systematic exposures, turnover, and tradability. Short descriptions of the data elements given are below:

Carbon Intensity: Scope 1 and 2 emissions of a company) / (revenue of the company in USD), as calculated by ISS.

LGIM ESG score: Rules-based environmental, social, and governance (ESG) scores from Legal & General Investment Management Limited (LGIM). The scores have been created and used for the following purposes:

1) To improve market standards globally and monitor ESG developments using quantitative measures.
2) To incentivize companies to improve their ESG profile through a transparent methodology.
3) To create investment solutions that are alternatively weighted to give more emphasis to companies that have higher ESG scores.

The LGIM ESG score combines an environment E score, a social S score, and a governance G score, with adjustments made for a company's overall levels of transparency T with regards to ESG issues. The scores can be downloaded from the LGIM ESG score website.

Risk Model: Axioma World-Wide Medium Horizon Fundamental Factor Model with base currency USD.

The portfolio constraints fall into three broad categories**:**

1) Management of the portfolio's carbon exposure
2) Quality tilt based on fundamentals, specifically a positive factor exposure to Profitability and Low Leverage.
3) Risk Management constraints including liquidity, diversification, and limiting unwanted exposures.

122. iSTOXX WORLD MIN VOL ESG INDEX

	iSTOXX World MV
Parent Index	STOXX World AC
Objective Function	Minimize Ex-Ante Portfolio Variance
Risk Model	Axioma WW4MH
CONSTRAINTS:	
Carbon Intensity (Scope 1+2 Emissions / USD Revenue)	No Worse than STOXX World AC
Active Industry Bounds	+/- 10% (ICB Industry)
Active Country Bounds	+/- 10% (STOXX World AC Country)
Active Region Bounds	STOXX World AC DM/EM +/- 50 bps
Active Quality Exposures	Axioma Profitability and Low Leverage + 0.5 std
Active Style Exposures	+/- 0.2 std (except Profitability, Leverage, Market Sensitivity and Volatility factors)
Liquidity	60-day MDV of at least 3 million USD
Trade Liquidity	Asset TO <= 10% 20-day ADV
Turnover	Annual one-way 30%
Min Effective Names	50
Min Asset Weight	3bps
Max Asset Weight	Min (4.5%, 20x Parent Weight)

Management of portfolio's carbon exposures: The iSTOXX World Min Vol index is constructed by constraining the portfolio carbon intensity (WACI) to be no worse than that of the STOXX World AC value. Security level carbon intensity data is provided by ISS ESG and is equal to (scope 1 and 2 emissions) / revenue in USD (million).

Active Industry Weights: The percentage exposure to each ICB Industry of the iSTOXX World Min Vol index must be within +/- 10% of the STOXX World AC value.

Active Country Weights: The percentage exposure to each country of the iSTOXX World Min Vol index must be within +/- 10% of the STOXX World AC value. Each company's country assignment is based on the STOXX World AC Country classification.

Active Region Weights: The percentage exposure to the developed/emerging regions of the iSTOXX World Min Vol index must be within +/- 50 bps of the STOXX World AC value. Each company's region assignment is based on the STOXX World AC Country classification.

Active Quality Exposure: The exposure to the Axioma Risk Model Profitability and Low Leverage factors of the iSTOXX World Min Vol index must be greater than the STOXX World AC value plus 0.5 standard deviations.

Active Style Factor Exposures: The exposure to each of the Axioma Risk Model style factors (except Profitability, Leverage, Market Sensitivity and Volatility factors) for the iSTOXX World

122. iSTOXX WORLD MIN VOL ESG INDEX

Min Vol index must be within 0.2 standard deviations of the STOXX World AC's factor exposures.

Asset Holding Limits: The maximum weight of each asset in the index is Min (4.5%, 20 times the iSTOXX World weight). The minimum non-zero weight of each asset in the index is 3 bps.

Liquidity: Assets must have a 60-day MDV of at least 3 million USD.

Trade Liquidity: Asset's round-trip turnover must be less than 10% of its 20-day ADV.

Maximum Turnover: The index has a one-way turnover limit of 7.5% for each quarterly rebalance.

Minimum Effective Names: Minimum effective number of names >= 50.

The effective number of names of a portfolio is the reciprocal of its Herfindahl index of the portfolio and it is imposed as

$$\sum_k w_k^2 \leq \frac{1}{50}$$

where:

w_k = the weight of the k-th stock in the portfolio.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed using Axioma's proprietary constraint hierarchy procedure (in the following order): 1) Trade Liquidity (relaxed up to a maximum of 2x). 2) Maximum Turnover (relaxed up to a maximum of 2x).

If there is not a solution that satisfies the constraints after this additional stage of parameter relaxation, the rebalance for the quarter will not take place.

Review frequency:

The reviews are conducted on a quarterly basis in March, June, September, and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1.000.000.000 / closing price of the stock) rounded to the nearest integer.

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. LGIM ESG scores are updated twice a year in March and September. The cut-off date LGIM data is the fifth weekday before the end of the months preceding the review months. The cut-off date for ISS ESG data is the end of the month preceding the review month. In the event of no delivery of LGIM data by the end of the first

122. iSTOXX WORLD MIN VOL ESG INDEX

weekday of the review months, prior data will be used for the index review. The underlying announcements are published after the close of the second Friday of the review months.

Missing Data Treatment: Securities missing ISS and LGIM ESG scores are dropped during the optimization.

122. iSTOXX WORLD MIN VOL ESG INDEX

122.1.2. iSTOXX WORLD MIN VOL ESG INDEX

122.1.2.1. OVERVIEW

The iSTOXX World Min Vol ESG index (iSTOXX World MV ESG) is designed to track the performance of an optimized minimum variance portfolio that will incorporate tilts towards companies that exhibit low volatility, favorable fundamentals (specifically profitability and leverage), and superior ESG scores. The index utilizes a minimum variance index (iSTOXX World Min Vol) based on the STOXX World AC and improves the Climate and ESG profiles of this index, using data from ISS ESG and LGIM, respectively. The index rules ensure tradability, diversification, positive exposure to fundamental quality (i.e., positive exposure to profitability and low leverage), and untargeted factor and industry/country/region exposures are risk managed.

Universe: STOXX World AC constituents

Parent Index: STOXX World AC

Weighting scheme: The index is price weighted according to a constrained minimum variance optimization model.

Base values and dates: The following base values and dates apply: 100 on June 18th, 2018.

Index types and currencies: Price, net, and gross return in GBP and USD.

Dissemination calendar: STOXX Europe calendar.

122.1.2.2. INDEX REVIEW

Selection list:

The portfolio construction is performed using Axioma's world-wide WW4AxiomaMH model and portfolio optimization software.

The objective of the optimization problem is to minimize ex-ante variance of the portfolio.

Minimize : $(w)^T(BVB^T + \Delta^2)\, w$

where

w = Index weights

B = Exposure matrix, its elements denote each asset's exposure/loading to a particular factor

V = Factor covariance matrix from Axioma Risk Model

122. iSTOXX WORLD MIN VOL ESG INDEX

Δ^2 = Specific variance matrix from Axioma Risk Model.

The following constraints are enforced to ensure diversification and control for unintended systematic exposures, turnover, and tradability. Short descriptions of the data elements given are below:

Carbon Intensity: (Scope 1 and 2 emissions of a company) / (revenue of the company in USD), as calculated by ISS ESG.

LGIM ESG score: Rules-based environmental, social, and governance (ESG) scores from Legal & General Investment Management Limited (LGIM). The scores have been created and used for the following purposes:

1) To improve market standards globally and monitor ESG developments using quantitative measures.
2) To incentivize companies to improve their ESG profile through a transparent methodology.
3) To create investment solutions that are alternatively weighted to give more emphasis to companies that have higher ESG scores.

The LGIM ESG score combines an environment E score, a social S score, and a governance G score, with adjustments made for a company's overall levels of transparency T with regards to ESG issues. The scores can be downloaded from the LGIM ESG score website.

Axioma Risk Model: Axioma World-Wide Medium Horizon Fundamental Factor Model with base currency USD.

The portfolio constraints fall into four broad categories, and are summarized in the table below**:**

1) Management of the portfolio's carbon exposure
2) LGIM ESG Target Exposure
3) Quality tilt based on fundamentals, specifically a positive factor exposure to Profitability and Low Leverage.
4) Risk Management constraints including liquidity, diversification, and limiting unwanted exposures.

122. iSTOXX WORLD MIN VOL ESG INDEX

	iSTOXX World MV ESG
Parent Index	STOXX World AC
Objective Function	Minimize Ex-Ante Portfolio Variance
Risk Model	Axioma WW4MH
CONSTRAINTS:	
Carbon Intensity (Scope 1 + 2 Emissions / USD Revenue)	No Worse than STOXX World AC
LGIM ESG Score	At least 10% better than iSTOXX World MV
LGIM E, S, G, T Scores	No worse than iSTOXX World MV for each individual score
Active Industry Bounds	+/- 10% (ICB Industry)
Active Country Bounds	+/- 10% (STOXX World AC Country)
Active Region Bounds	STOXX World AC DM/EM +/- 50 bps
Active Quality Exposures	Axioma Profitability and Low Leverage + 0.5 std
Active Style Factor Exposures	+/- 0.2 std (except Profitability, Leverage, Market Sensitivity and Volatility factors)
Liquidity	60d MDV of at least 3 million USD
Trade Liquidity	Asset TO <= 10% 20-day ADV
Turnover	Annual one-way 30%
Min Effective Names	50
Min Asset Weight	3bps
Max Asset Weight	Min (4.5%, 20x Parent Weight)

Management of portfolio's carbon exposures: The iSTOXX World Min Vol ESG index is constructed by constraining the portfolio carbon intensity (WACI) to be no worse than that of the STOXX World AC value. Security level carbon intensity data is provided by ISS ESG and is equal to (scope 1 and 2 emissions) / revenue in USD (million).

LGIM ESG scores: The iSTOXX World Min Vol ESG index requires a 10% improvement in the portfolio ESG score of the iSTOXX World Min Vol index. In addition, the individual E, S, G, and T scores are constrained to be no worse than that of the iSTOXX World Min Vol index.

Active Industry Weights: The percentage exposure to each ICB Industry of the iSTOXX World Min Vol ESG index must be within +/- 10% of the STOXX World AC value.

Active Country Weights: The percentage exposure to each country of the iSTOXX World Min Vol ESG index must be within +/- 10% of the STOXX World AC value. Each company's country assignment is based on the STOXX World AC Country classification.

Active Region Weights: The percentage exposure to the developed/emerging regions of the iSTOXX World Min Vol ESG index must be within +/- 50 bps of the STOXX World AC value. Each company's region assignment is based on the STOXX World AC Country classification.

122. iSTOXX WORLD MIN VOL ESG INDEX

Active Quality Exposure: The exposure to the Axioma Risk Model Profitability and Low Leverage factors of the iSTOXX World Min Vol ESG index must be greater than the STOXX World AC value plus 0.5 standard deviations.

Active Style Factor Exposures: The exposure to each of the Axioma Risk Model style factors (except Profitability, Leverage, Market Sensitivity and Volatility factors) for the iSTOXX World Min Vol ESG index must be within 0.2 standard deviations of the STOXX World AC's factor exposures.

Asset Holding Limits: The maximum weight of each asset in the index is Min (4.5%, 20 times the STOXX World AC weight). The minimum non-zero weight of each asset in the index is 3 bps.

Liquidity: Assets must have a 60-day MDV of at least 3 million USD.

Trade Liquidity: Asset's round-trip turnover must be less than 10% of its 20-day ADV.

Maximum Turnover: The index has a one-way turnover limit of 7.5% for each quarterly rebalance.

Minimum Effective Names: Minimum effective number of names >= 50.

The effective number of names of a portfolio is the reciprocal of its Herfindahl index of the portfolio and it is imposed as

$$\sum_k w_k^2 \leq \frac{1}{50}$$

where:

w_k = the weight of the k-th stock in the portfolio.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed using Axioma's proprietary constraint hierarchy procedure (in the following order): 1) Trade Liquidity (relaxed up to a maximum of 2x). 2) Maximum Turnover (relaxed up to a maximum of 2x).

If there is not a solution that satisfies the constraints after this additional stage of parameter relaxation, the rebalance for the quarter will not take place.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September, and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1.000.000.000 / closing price of the stock) rounded to the nearest integer.

122. iSTOXX WORLD MIN VOL ESG INDEX

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. LGIM ESG scores are updated twice a year in March and September. The cut-off date LGIM data is the fifth weekday before the end of the months preceding the review months. The cut-off date for ISS ESG data is the end of the month preceding the review month. In the event of no delivery of LGIM data by the end of the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published after the close of the second Friday of the review months.

Missing Data Treatment: Securities missing either ISS ESG data or LGIM ESG scores are dropped during the optimization

122.1.3. CORPORATE ACTION ADJUSTMENTS AND ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced**.**

Fast exit: Applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

122. iSTOXX WORLD MIN VOL ESG INDEX

122.2. iSTOXX L&G DEVELOPED WORLD ESG INDEX

122.2.1. OVERVIEW

The iSTOXX L&G Developed World ESG index is designed to track an ESG weighted market cap benchmark based on STOXX Developed World where the ESG scores are provided by Legal and General Investment Management (LGIM). The index rules aim to ensure tradability, diversification, and untargeted factor and industry/country exposures are risk managed.

Universe: STOXX Developed World Index constituents

Weighting scheme: The indices are weighted according to an optimization model.

Base values and dates: The following base values and dates apply: 100 on March 24, 2014.

Index types and currencies: Price, net, and gross return in GBP and EUR.

Dissemination calendar: STOXX Europe calendar

122.2.2. INDEX REVIEW

Constituent Selection: The portfolio construction is performed using Axioma's portfolio optimization software.

The objective function for the optimization model is constructed as follows:

1) Construct a proxy portfolio whose weights are given by , $\frac{Free\ Float\ Marketcap_i * (1+ESG\ Score_i)^2}{\sum_i^n Free\ Float\ Marketcap_i * (1+ESG\ Score_i)^2}$ where the ESG scores are provided by LGIM and n is the total companies in the parent index.
2) Minimize the sum-of-squares (SOS) deviation from the normalized ESG weighted market-cap benchmark from Step 1.

A brief description of the LGIM ESG scores used in the construction of the proxy portfolio is given below:

LGIM ESG score: LGIM ESG score: Rules-based environmental, social, and governance (ESG) scores from Legal & General Investment Management Limited (LGIM). The scores have been created and used for the following purposes:

1) To improve market standards globally and monitor ESG developments using quantitative measures.
2) To incentivize companies to improve their ESG profile through a transparent methodology.
3) To create investment solutions that are alternatively weighted to give more emphasis to companies that have higher ESG scores.

122. iSTOXX WORLD MIN VOL ESG INDEX

The LGIM ESG score combines an environment E score, a social S score, and a governance G score, with adjustments made for a company's overall levels of transparency T with regards to ESG issues. The scores can be downloaded from the LGIM ESG score website.

The portfolio model also includes the following constraints to ensure diversification and control for unintended systematic exposures and tradability.

Do Not Hold (Exclusions)	LGIM FWPL
Active Industry Bounds	+/-5% ICB Industries (Level 1)
Active Country Bounds	+/- 3% (STOXX Country)
Active Style Exposures	+/- 0.25 std except Market Sensitivity and Volatility
Liquidity	60-day MDV of at least 3 million GBP
Asset Bounds	Max 3%, Min 3 bps (threshold)

A brief description of the portfolio constraints is given below:

LGIM Future World Protection List (FWPL) Exclusions: The Future World Protection List includes companies that meet any of the following criteria:

1. **Involvement in the manufacture and production of controversial weapons:** Antipersonnel landmines, cluster munitions, biological and chemical weapons – evidence of involvement in the core weapons system**.**
2. **Perennial violator of the United Nations Global Compact (UNGC), an initiative to encourage businesses worldwide to adopt sustainable and socially responsible policies:** Companies assessed as being in violation of one or more principles for a period of 36-months or more.
3. **Involvement in mining and extraction of thermal coal, thermal-coal power generation and oil sands:** Companies generating 20% or more revenues from these activities.

The methodology is formally reviewed on an annual basis by the LGIM Investment Stewardship team. More details can be found at LGIM Future World Protection Methodology. The exclusions can be downloaded from LGIM Future World Protection List.

FWPL exclusions are applied from December 2018 onwards when the LGIM data is available.

Active Industry Weights: The percentage exposure to each ICB Industry of the iSTOXX L&G Developed World ESG index must be within +/- 5% of the Parent Index.

Active Country Weights: The percentage exposure to each country of the iSTOXX L&G Developed World ESG index must be within +/- 3% of the Parent Index value. Each company's country assignment is based on the STOXX Country classification.

122. iSTOXX WORLD MIN VOL ESG INDEX

Active Style Factor Exposures: The exposure to each of the Axioma Risk Model style factors (except Market Sensitivity and Volatility factors) for the iSTOXX L&G Developed World ESG index must be within 0.25 standard deviations of the Parent Index's factor exposures.

Liquidity: Assets must have a 60-day MDV of at least 3 million GBP.

Asset Holding Limits: The maximum weight of each asset in the index is 3%. The minimum non-zero weight of each asset in the index is 3 bps.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September, and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1.000.000.000 / closing price of the stock in EUR) rounded to the nearest integer.

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. LGIM ESG scores are updated twice a year in March and September. The cut-off date LGIM data is the fifth trading day before the end of the months preceding the review months. In the event of no delivery of LGIM data by the end of the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published after the close of the second Friday of the review months.

Missing Data Treatment: Securities missing LGIM ESG scores are assigned the neutral score of 0 where ESG scores are in the [-1, +1] range.

122.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced**.**

Fast exit: Applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

122. iSTOXX WORLD MIN VOL ESG INDEX

122.3. iSTOXX L&G DEVELOPED WORLD MIN VOL INDEX

122.3.1. OVERVIEW

The iSTOXX L&G Developed World Min Vol index is designed to track the performance of an optimized minimum variance portfolio based on STOXX Developed World that is constructed using Axioma's world-wide WW4AxiomaMH model. The index rules aim to ensure tradability, diversification, and untargeted factor and industry/country exposures are risk managed.

Universe: STOXX Developed World Index constituents

Weighting scheme: The indices are weighted according to a constrained minimum variance optimization model.

Base values and dates: 100 and 24th March 2014

Index types and currencies: Price, net, and gross return in EUR and GBP

Dissemination Calendar: STOXX Europe Calendar

122.3.2. INDEX REVIEW

Constituent Selection: The portfolio construction is performed using Axioma's world-wide WW4AxiomaMH model and portfolio optimization software.

The objective of the optimization problem is to minimize ex-ante variance of the portfolio.

Minimize : $(w)^T(BVB^T + \Delta^2)\, w$

where,

w = Index weights

B = Exposure matrix, its elements denote each asset's exposure/loading to a particular factor

V = Factor covariance matrix from Axioma Risk Model

Δ^2 = Specific variance matrix from Axioma Risk Model.

122. iSTOXX WORLD MIN VOL ESG INDEX

The portfolio model also includes the following constraints to ensure diversification and control for unintended systematic exposures, turnover, and tradability.

Active Industry Bounds	+/-5% ICB Industries (Level 1)
Active Country Bounds	+/- 3% (STOXX Country)
Active Style Exposures	+/- 0.25 std except Market Sensitivity and Volatility
Liquidity	60-day MDV of at least 3 million GBP
Asset Bounds	Max 3%, Min 3 bps (threshold)
Turnover	20% (one-way) per annum

A brief description of the portfolio constraints and data elements is given below:

Active Industry Weights: The percentage exposure to each ICB Industry of the iSTOXX L&G Developed World ESG index must be within +/- 5% of the Parent Index.

Active Country Weights: The percentage exposure to each country of the iSTOXX Developed World ESG index must be within +/- 3% of the Parent Index value. Each company's country assignment is based on the STOXX Country classification.

Active Style Factor Exposures: The exposure to each of the Axioma Risk Model style factors (except Market Sensitivity and Volatility factors) for the iSTOXX L&G Developed World Min Vol index must be within 0.25 standard deviations of the Parent Index's factor exposures.

Liquidity: Assets must have a 60-day MDV of at least 3 million GBP.

Asset Holding Limits: The maximum weight of each asset in the index is 3%. The minimum non-zero weight of each asset in the index is 3 bps.

Maximum Turnover: The iSTOXX L&G Developed World Min Vol index has a one-way turnover limit of 5% for each quarterly rebalance.

Axioma Risk Model: Axioma World-Wide Medium Horizon Fundamental Factor Risk Model with base currency GBP.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the Maximum Turnover constraint is relaxed using Axioma's proprietary constraint hierarchy procedure.

If there is not a solution that satisfies the constraints after this additional stage of parameter relaxation, the rebalance for the quarter will not take place.

122. iSTOXX WORLD MIN VOL ESG INDEX

Review frequency: The reviews are conducted on a quarterly basis in March, June, September, and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1.000.000.000 / closing price of the stock in EUR) rounded to the nearest integer.

122.3.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced**.**

Fast exit: Applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

122. iSTOXX WORLD MIN VOL ESG INDEX

122.4. iSTOXX L&G DEVELOPED WORLD MIN VOL ESG INDEX

122.4.1. OVERVIEW

The iSTOXX L&G Developed World Min Vol ESG index is designed to track the performance of an optimized minimum variance portfolio over STOXX Developed World, which also tilts towards higher ESG scores and incorporates a decarbonization trajectory. The index is designed to help investors shift and align investments towards a low-carbon economy.

The weighting process follows an optimization process that uses Axioma's world-wide WW4AxiomaMH model to enforce risk targets. The index aims to reduce its greenhouse gases (GHG) intensity by at least 30% when compared to the benchmark index. Additionally, it is designed to meet a year on year 7% decarbonization target. Scope 1 and Scope 2 emissions are used in the total emission considerations.

The index rules aim to ensure tradability, diversification, and untargeted factor and industry/country/region exposures are risk managed.

Universe: STOXX Developed World Index constituents

Weighting scheme: The indices are weighted according to a constrained minimum variance optimization model.

Base values and dates: 100 and 24th March 2014

Index types and currencies: Price, net, and gross return in EUR and GBP

Dissemination Calendar: STOXX Europe Calendar

122.4.2. INDEX REVIEW

Constituent selection: The portfolio construction is performed using Axioma's world-wide WW4AxiomaMH model and portfolio optimization software.The objective function for the iSTOXX L&G Developed World Min Vol ESG index is

Minimize the sum-of-squares (SOS) deviation from the iSTOXX L&G Developed World ESG index
Minimize: $(w-\overline{w})^T(w-\overline{w})$
where
w = iSTOXX L&G Developed World Min Vol ESG index weights, and
$\overline{w}$ = iSTOXX L&G Developed World ESG index weights.

122. iSTOXX WORLD MIN VOL ESG INDEX

The portfolio model also includes the following constraints to ensure diversification and control for unintended systematic exposures, turnover, and tradability.

Do Not Hold (Exclusions)	LGIM FWPL
Minimum Scope 1+2 GHG intensity reduction compared to the corresponding STOXX Benchmark Index	30% vs parent index from March 2014, where GHG Intensity = (Scope 1 + 2 emissions) / EVIC Minimum reduction at inception & also on going
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	> 7% per annum and capped at 10% per annum starting from March 2021, after taking in consideration any inflation in EVIC
LGIM ESG Exposure	>= 105% of Parent Index ESG Score
Active Industry Bounds	+/-5% ICB Industries (Level 1)
Active Country Bounds	+/- 3% (STOXX Country)
Active Style Exposures	+/- 0.25 std except Market Sensitivity and Volatility
Liquidity	60-day MDV of at least 3 million GBP
Asset Bounds	Max 3%, Min 3 bps (threshold)
Maximum Target Volatility	Ex-ante Risk <= (iSTOXX L&G Developed World ESG Ex-ante Risk - (80% * (iSTOXX L&G Developed World ESG Ex-ante Risk – iSTOXX L&G Developed World Min Vol Ex-ante Risk))
Turnover relative to iSTOXX L&G Developed World ESG	10% (one-way) vs iSTOXX L&G Developed World ESG
Turnover	20% (one-way) per annum

Short descriptions of the data elements used in the constraints given below:

Scope 1 and 2 emissions: The GHG Protocol Corporate Standard classifies companies' greenhouse gas (GHG) emissions as direct and indirect emissions[151]. Direct emissions, also known as Scope 1 emissions, refer to GHG waste produced and consumed by the reporting entity. For instance, on-site generation and use of energy is tracked under Scope 1. In contrast, Scope 2 emissions are indirect emissions attributed to the reporting company but generated by another entity. Scope 2 includes acquired/ purchased energy brought into the company's reporting boundary as a form of: electricity, steam, heating, and cooling. Scope 1 and 2 data is obtained from ISS ESG.

Enterprise Value Including Cash (EVIC): EVIC is a measure of a company's total value, often used as a more comprehensive alternative to equity market capitalization. EVIC includes in its calculation the market capitalization of a company, short-term and long-term debt, and any cash

[151] https://ghgprotocol.org/sites/default/files/standards/Scope%202%20Guidance_Final_Sept26.pdf

on the company's balance sheet. EVIC data used in index construction is based on fiscal year data for the end of the previous calendar year. The EVIC is calculated in EUR.

LGIM ESG score: Rules-based environmental, social, and governance (ESG) scores from Legal & General Investment Management Limited (LGIM). The scores have been created and used for the following purposes:

1. To improve market standards globally and monitor ESG developments using quantitative measures.
2. To incentivize companies to improve their ESG profile through a transparent methodology.
3. To create investment solutions that are alternatively weighted to give more emphasis to companies that have higher ESG scores.

The LGIM ESG score combines an environment E score, a social S score, and a governance G score, with adjustments made for a company's overall levels of transparency T with regards to ESG issues. The scores can be downloaded from the LGIM ESG score website.

LGIM Future World Protection List (FWPL) Exclusions: The Future World Protection List includes companies that meet any of the following criteria:

1. **Involvement in the manufacture and production of controversial weapons:** Antipersonnel landmines, cluster munitions, biological and chemical weapons – evidence of involvement in the core weapons system**.**
2. **Perennial violator of the United Nations Global Compact (UNGC), an initiative to encourage businesses worldwide to adopt sustainable and socially responsible policies:** Companies assessed as being in violation of one or more principles for a period of 36-months or more.
3. **Involvement in mining and extraction of thermal coal, thermal-coal power generation and oil sands:** Companies generating 20% or more revenues from these activities.

The methodology is formally reviewed on an annual basis by the LGIM Investment Stewardship team. More details can be found at LGIM Future World Protection Methodology. The exclusions can be downloaded from LGIM Future World Protection List.

FWPL exclusions are applied from December 2018 onwards when the LGIM data is available.
Axioma Risk Model: Axioma World-Wide Medium Horizon Fundamental Factor Risk Model with base currency GBP.

A brief description of the various constraints enforced in the model is given below:

GHG Intensity Reduction: The iSTOXX L&G Developed World Min Vol ESG index is constructed by constraining the portfolio carbon intensity with respect to the STOXX Developed World Index:

1) **Initial 30% reduction vs parent index:** Enforce a 30% reduction in WACI vs the parent index in each quarterly rebalance from March 2014. Security level carbon intensity data is equal to (Scope 1+2 emissions from ISS ESG) / (Enterprise value including cash (EVIC)) from March 2019 onwards. Carbon intensity is calculated as (Scope 1+2 emissions from ISS ESG) / Revenue from March 2014 to December 2018 due to the lack of the availability of EVIC data during this period.

122. iSTOXX WORLD MIN VOL ESG INDEX

2) **Minimum 30% parent index reduction and 7-10% YoY decarbonization from June 2021:** For each subsequent quarterly rebalance from June 2021 onwards, the WACI of the index satisfies the following constraints
   a. WACI of Min Vol ESG index ≤ Min (70% of parent index WACI, $(0.93)^{(Number\ of\ quarters\ from\ March\ 2021/4)}$ × (WACI of Min Vol ESG index in March 2021 / Cumulative Inflation Adjustment Factor[152])),
   b. WACI of Min Vol ESG index ≥ $(0.9)^{(Number\ of\ quarters\ from\ March\ 2021/4)}$ × (WACI of Min Vol ESG index in March 2021 / Cumulative Inflation Adjustment Factor).

   In calculating the previous year's WACI reduction, the current WACI is multiplied by the enterprise value inflation factor to reflect the effects of inflation in enterprise values as an increasing average enterprise value of the index constituents could lead to an overall WACI reduction when no actual WACI reductions took place.

LGIM ESG exposures: Each LGIM ESG score is first converted to positive score between [0, 100]. The iSTOXX L&G Developed World Min Vol ESG index then targets a 5% improvement over the total ESG exposure of the Parent Index over these positive ESG scores.

Active Industry Weights: The percentage exposure to each ICB Industry of the iSTOXX L&G Developed World Min Vol ESG index must be within +/- 5% of the Parent Index.

Active Country Weights: The percentage exposure to each country of the iSTOXX L&G Developed World Min Vol ESG index must be within +/- 3% of the Parent Index value. Each company's country assignment is based on the STOXX Country classification.

Active Style Factor Exposures: The exposure to each of the Axioma Risk Model style factors (except Market Sensitivity and Volatility factors) for the iSTOXX L&G Developed World Min Vol ESG index must be within 0.25 standard deviations of the Parent Index's factor exposures.

Asset Holding Limits: The maximum weight of each asset in the index is 3%. The minimum non-zero weight of each asset in the index is 3 bps.

Liquidity: Assets must have a 60-day MDV of at least 3 million GBP.

Maximum Target Volatility: The iSTOXX L&G Developed World Min Vol ESG index has the following ex-ante risk constraint.

[152] The enterprise value inflation adjustment factor is computed by dividing the average enterprise value of the index constituents at the end of the calendar year by the average enterprise value of the index constituents at the end of the previous calendar year and has a minimum value of 1.

122. iSTOXX WORLD MIN VOL ESG INDEX

$(w)^T(BVB^T + \Delta^2)w \leq$ (iSTOXX L&G Developed World ESG ex-ante Risk – 80% × (iSTOXX L&G Developed World ESG ex-ante Risk – iSTOXX L&G Developed World Min Vol ex-ante Risk))

Turnover relative to iSTOXX L&G Developed World ESG index: The iSTOXX L&G Developed World Min Vol ESG index has a one-way turnover limit of 10% relative to the iSTOXX L&G Developed World ESG for each quarterly rebalance.

Maximum Turnover: The iSTOXX L&G Developed World Min Vol ESG index has a one-way turnover limit of 5% for each quarterly rebalance.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, the following constraints are relaxed using Axioma's proprietary constraint hierarchy procedure (in the following order)

1) Minimum Target Volatility,

2) Maximum Turnover,

3) Turnover relative to iSTOXX L&G Developed World ESG Index.

If there is not a solution that satisfies the constraints after this additional stage of parameter relaxation, the rebalance for the quarter will not take place.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September, and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1.000.000.000 / closing price of the stock in EUR) rounded to the nearest integer.

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. LGIM ESG scores and FWPL exclusions are updated twice a year in March and September. The cut-off date LGIM data is the fifth trading day before the end of the months preceding the review months. The cut-off date for ISS ESG data is the end of the month preceding the review month. The cut-off date for EVIC data is end of the previous calendar year. In the event of no delivery of LGIM data by the end of the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published after the close of the second Friday of the review months.

Missing Data Treatment: Securities missing LGIM ESG scores are assigned the neutral score of 0 where ESG scores are in the [-1, +1] range. Securities missing ISS carbon emissions data are dropped during the optimization.

122. iSTOXX WORLD MIN VOL ESG INDEX

122.4.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced**.**

Fast exit: Applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

123.1. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

123.1.1. OVERVIEW

The iSTOXX APG World-X and Responsible Minimum Volatility Indices are a set of indices designed by optimizing the parent index (iSTOXX World A index) to produce a set of indices that have the lowest absolute ex-ante volatility under different ESG, Carbon and SDI constraints. Those indices also place controls over style factor tilts, industry / country exposures and liquidity / tradability etc.

Indices: The iSTOXX APG World-X and Responsible Minimum Volatility Index Range is comprised of five separate indices, herein referred to as:

1. iSTOXX APG World-X Minimum Volatility Index
2. iSTOXX APG World Responsible Minimum Volatility Index
3. iSTOXX APG World Responsible Low-Carbon Minimum Volatility Index
4. iSTOXX APG World Responsible SDI Minimum Volatility Index
5. iSTOXX APG World Responsible Low-Carbon SDI Minimum Volatility Index

Universe: iSTOXX World A Index

Weighting scheme: The indices are price weighted according to a minimum variance optimization with a set of constraints.

Base values and dates: 100 on March 18, 2013.

Index types and currencies: Price, net, and gross return in USD and EU0052.

Dissemination calendar: STOXX Europe calendar

123.1.2. INDEX REVIEW

Constituent selection: The portfolio construction is performed using Axioma's portfolio optimization software.

The objective of the optimization problem is to minimize ex-ante variance of the portfolio.

Minimize: $(w)^T(\lambda_f \times BVB^T + \lambda_s \times \Delta^2)\,(w)$

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

Where:

w = Index weights

B = Exposure matrix, its elements denote each asset's exposure/loading to a particular factor

V = Factor covariance matrix from Axioma Risk Model

Δ^2 = Specific variance matrix from Axioma Risk Model

λ_f, λ_s = Factor Weight and Specific Weight in the covariance matrix. λ_f= 1, $\lambda_s = 10$.

The following constraints are enforced in order to ensure diversification and control for unintended systematic exposures, turnover and tradability. Short descriptions of the data elements given are below:

APG Exclusion Flag: a data attribute designed to identify companies that are excluded from the investment universe for product-based reasons (e.g. controversial weapons, tar sands, thermal coal, and tobacco), or conduct-based reasons, or because companies have a high risk of or proven to be violating one or more of the ten UNGC Principles. Tar sands and thermal coal exclusions are included starting from 1st June 2021. Conduct-based exclusions are included starting from 1st December 2021.

APG ESG-Leader Flag: a data attribute designed to identify companies that are considered to be adequately managing ESG risks. Under this policy, companies are systematically assessed based on their conduct in relation to the management of ESG-related risks inherent in companies' industries and markets. The assessment contains both normative and relative components and focuses on companies' preparedness and behavior regarding business ethics, human rights, labor standards and the environment.

APG Carbon Footprint Equity Measure: a data attribute that reflects the total absolute emissions of attributable to the equity capital of a company.

APG SDI Measure: a data attribute designed to screen for companies that actively contribute to the UN Sustainable Development Goals through the products and services that they make. The underlying methodology uses the standard and taxonomy of the SDI Asset Owner Platform and the AI-based technology from ENTIS to systematically identify companies that contribute to the UN SDGs

Axioma Risk Model: Axioma World-Wide Medium Horizon Fundamental Factor Risk Model with numeraire EUR.

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

iSTOXX APG World-X Minimum Volatility Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.25 std for Axioma Risk Model Style factors w/r/t Parent Index, except for Market Sensitity factor and Volatility factor
Individual Issuer Capping	Max: 2.5%. Min (non-zero): 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Turnover	Maximum quarterly one-way turnover: 3.75%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 10%, strength = 5 parameters
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible Minimum Volatility Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.25 std for Axioma Risk Model Style factors w/r/t Parent Index, except for Market Sensitity factor and Volatility factor

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

Individual Issuer Capping	Max: 2.5%. Min (non-zero): 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Turnover	Maximum quarterly one-way turnover: 3.75%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 10%, strength = 5 parameters
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible Low-Carbon Minimum Volatility Index

Target	**Constraint**
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Carbon Reduction	Reduce portfolio APG Carbon Footprint Equity Measure by at least X%
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.25 std for Axioma Risk Model Style factors w/r/t Parent Index, except for Market Sensitity factor and Volatility factor
Individual Issuer Capping	Max: 2.5%. Min (non-zero): 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Turnover	Maximum quarterly one-way turnover: 3.75%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 10%, strength = 5 parameters
Do not trade	Do not trade names with MDV = 0 or missing

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

iSTOXX APG World Responsible SDI Minimum Volatility Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
SDI Target	Portfolio APG SDI Measure >= Y%
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.25 std for Axioma Risk Model Style factors w/r/t Parent Index, except for Market Sensitity factor and Volatility factor
Individual Issuer Capping	Max: 2.5%. Min (non-zero): 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Turnover	Maximum quarterly one-way turnover: 3.75%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 10%, strength = 5 parameters
Do not trade	Do not trade names with MDV = 0 or missing

iSTOXX APG World Responsible Low-Carbon SDI Minimum Volatility Index

Target	Constraint
ESG Exclusions	Do not hold names flagged by the APG Exclusion Flag
Non-ESG-Leader Exclusions	Do not hold names not flagged by the APG ESG-Leader Flag
Carbon Reduction	Reduce portfolio APG Carbon Footprint Equity Measure by at least X%
SDI Target	Portfolio APG SDI Measure >= Y%
Active ICB Industry (Level 1) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

Active Style Exposures	+/-0.25 std for Axioma Risk Model Style factors w/r/t Parent Index, except for Market Sensitity factor and Volatility factor
Individual Issuer Capping	Max: 2.5%. Min (non-zero): 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Turnover	Maximum quarterly one-way turnover: 3.75%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 10%, strength = 5 parameters
Do not trade	Do not trade names with MDV = 0 or missing

ESG Exclusions: Those names flagged by the APG Exclusion Flag are not held.

Non-ESG-Leader Exclusions: Those names not flagged by the APG ESG-Leader Flag are not held.

Carbon Reduction: The aggregate score of the index for the APG Carbon Footprint Equity Measure is reduced from its score in the Parent Index by X%. The target values X% are specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices.

SDI Target: The aggregate score of the index for the APG SDI Measure is at least Y%. The Y% values Y% are specified using an annual pathway; further details are available to stakeholders via stoxx.com/indices.

Active ICB Industry (Level 1) Weights: The exposure to each ICB Industry (Level 1) is summed up for the Index, and the percentage exposure of the index must be within 5% of the Parent Index values.

Active Country Weights: The exposure to each country is summed up for the Index, and the percentage exposure of the index must be within 5% of Parent Index values.

Active Style Exposures: The exposure to each of the Axioma Risk Model style factors (except Market Sensitivity and Volatility factors) should be within 0.25 standard deviations of the Parent Index's factor exposures.

Individual Issuer Capping: The maximum and minimum (non-zero) weights of each issuer in the index are 2.5% and 2.5 bp respectively. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.

Maximum Turnover: The index has a one-way turnover limit of 3.75% for each quarterly rebalance.

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

Percentile Days to Trade / Liquidity Constraint: The maximum weight of each component in the index is limited to 5 times its 60-day median daily trading volume multiplied by the ratio of the benchmark weight and 60-day median daily trading volume of the representative stock p. The representative asset is the 10th percentile of all constituents in the Parent Index when sorted by the ratio of 60-day median trading volume divided by the Parent Index weight.

$$w_k \leq S\, V_k\, b_p / V_p$$

where:

w_k = the weight of the k-th stock in the portfolio

p = the asset with the 10-th percentile of V_k / b_k

b_k = the weight of the k-th stock in the benchmark

V_p = the 60-day median daily trading volume for the k-th stock

S = 5 (Strength)

Do Not Trade: Names with zero median daily trading volume (MDV) are not traded.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found. The following constraints are relaxed iteratively. as necessary:
1) Maximum Turnover.
2) Do Not Trade.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices in EUR from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1,000,000,000 / closing price of the stock in EUR). rounded to the nearest integer.

The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months. For March and September reviews, the cut-off date for APG data is the 5th weekday before the end of the months preceding the review months. For June and December reviews, the cut-off date for APG data is the first dissemination day of the review months.

In the event of no delivery of APG data by the end of the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published on the second Friday of the review months.

123. iSTOXX APG WORLD-X AND RESPONSIBLE MINIMUM VOLATILITY INDICES

Missing Data Treatment: Securities that are missing all the APG data elements will not be eligible for selection during index reviews.

123.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

124. EURO iSTOXX FUTURES LEVERAGE INDICES

124.1. EURO iSTOXX FUTURES LEVERAGE INDICES

124.1.1. OVERVIEW

The EURO iSTOXX Futures Leverage Long and Short Indices replicate a leveraged investment strategy based on the EURO STOXX Futures Switch ER Indices. Leveraged long indices apply a leverage factor to movements in the underlying index. Therefore, a positive change of the underlying index will result in the corresponding leveraged performance in this index. Short indices are linked inversely to the changes in the underlying index, applying a negative leverage factor to movements in the underlying index. Therefore, investing in short indices yields the reverse performance of the underlying index.

Index types and currencies: Excess Return in EUR.

Base values and dates: See table below.

Dissemination calendar: STOXX Eurex Calendar

Index Rounding : 3 d.p.

ISIN	Index Name	Underlying Index	Leverage Factor	Base Value	Base Date
CH1169655565	EURO iSTOXX 50 Futures Leverage Long 5X	SX5EFSER	5	1000	22/08/2022
CH1169655573	EURO iSTOXX 50 Futures Leverage Short 5X	SX5EFSER	-5	1000	22/08/2022
CH1169655607	EURO iSTOXX 50 Futures Leverage Long 7X	SX5EFSER	7	1000	12/09/2022
CH1169655615	EURO iSTOXX 50 Futures Leverage Short 7X	SX5EFSER	-7	1000	12/09/2022
CH1169655623	EURO iSTOXX Banks Futures Leverage Long 7X	SX7EFSER	7	1000	12/09/2022
CH1169655631	EURO iSTOXX Banks Futures Leverage Short 7X	SX7EFSER	-7	1000	12/09/2022
CH1169655649	EURO iSTOXX Oil & Gas Futures Leverage Long 7X	SXEEFSER	7	1000	12/09/2022
CH1169655656	EURO iSTOXX Oil & Gas Futures Leverage Short 7X	SXEEFSER	-7	1000	12/09/2022
CH1169655706	EURO iSTOXX Banks Futures Leverage Long 5X	SX7EFSER	5	1000	06/10/2022
CH1169655714	EURO iSTOXX Banks Futures Leverage Short 5X	SX7EFSER	-5	1000	06/10/2022
CH1169655722	EURO iSTOXX Oil & Gas Futures Leverage Long 5X	SXEEFSER	5	1000	06/10/2022

124. EURO iSTOXX FUTURES LEVERAGE INDICES

CH1169655730	EURO iSTOXX Oil & Gas Futures Leverage Short 5X	SXEEFSER	-5	1000	06/10/2022
CH1169655789	iSTOXX Europe 600 Oil & Gas Futures Leverage Long 5X	SXEPFSER	5	1000	02/12/2022
CH1169655797	iSTOXX Europe 600 Oil & Gas Futures Leverage Short 5X	SXEPFSER	-5	1000	02/12/2022
CH1169655805	iSTOXX Europe 600 Oil & Gas Futures Leverage Long 7X	SXEPFSER	7	1000	02/12/2022
CH1169655813	iSTOXX Europe 600 Oil & Gas Futures Leverage Short 7X	SXEPFSER	-7	1000	02/12/2022

124.1.2. CALCULATION

The formula can be written as:

$$LevIDX_t = LevIDX_T \cdot \left[1 + L \cdot \left(\frac{IDX_t}{IDX_T} - 1\right) + (IR + L \cdot c_M \cdot a) \cdot \frac{d}{360}\right]$$

where:

LevIDX = Leverage Index (Rounded previous value used for calculation).
IDX = Underlying Index.
IR = Interest Rate (€STR(t-2) is used).
c_M = Cost of Borrow (Fixed at 0.6%).
t = Time of calculation.
T = Time of last rebalancing prior to t (Usually last trading day).
d = Number of calendar days between t and T.
L = Leverage Factor.
a = -1 for Long Indices, 1 for Short Indices.

Adjustments Due to Extreme Market Movements
The intraday rebalancing is based on the minimum/maximum overall index values that occur in a time window of 10 minutes [θ,θ+]. The time window to calculate the minimum/maximum starts immediately after the trigger event occurs [θ]. The intraday rebalancing is triggered when the underlying index decreases more than x% (long indices) or increases by more than x% (short indices) compared to its previous day's close.

The respective trigger values (x) are given in the following table:

Long		Short	
Leverage	**Trigger Value**	**Leverage**	**Trigger Value**
5	-14%	-5	14%
7	-11%	-7	11%

124. EURO iSTOXX FUTURES LEVERAGE INDICES

Within the intraday rebalancing process, the base value when the minimum/maximum occurs in time t* is calculated as:

If $L > 0$: $IDX_{t^*} = \min\,[\theta, \theta^+]\ IDX_t$
If $L < 0$: $IDX_{t^*} = \max\,[\theta, \theta^+]\ IDX_t$

On that day after the intraday rebalancing i at time t the indices are calculated by:

$$LevIDX_t = LevIDX_{t_i^*} \cdot \left[1 + L \cdot \left(\frac{IDX_t}{IDX_{t_i^*}} - 1\right)\right]$$

With:

$$LevIDX_{t_1^*} = LevIDX_{t-1} \cdot \left[1 + L \cdot \left(\frac{IDX_{t_1^*}}{IDX_{t-1}} - 1\right) + (IR + L \cdot c_M \cdot a) \cdot \frac{d}{360}\right]$$

And for $i > 1$ we simulate a new day by setting $d = 0$, thus giving:

$$LevIDX_{t_i^*} = LevIDX_{t_{i-1}^*} \cdot \left[1 + L \cdot \left(\frac{IDX_{t_i^*}}{IDX_{t_{i-1}^*}} - 1\right)\right]$$

Over the course of the 10 minute period in which the minimum/maximum is determined, the index is not disseminated. The index dissemination ends immediately after the trigger event and is resumed after the 10 minute period has passed. In the case where the intraday rebalancing is triggered after 17:18:45 CET the intraday rebalancing will not be carried out. Any index value that triggers the intraday rebalancing before or equal to 17:18:45 will lead to the intraday rebalancing described above. The regular overnight rebalancing is always carried out, given that the leveraged/short index is not suspended.

Index Floor
If the leverage/short indices reach a value of 0.010 or below, the index is set to a value of 0.010 and its calculation/dissemination is discontinued. When historically back-casting the indices, prior to rebasing, if the indices hit the floor of 0.010 they were reset to an index level of 1000 on that calculation date.

125. iSTOXX EUROPE 600 IRCANTEC PAB INDEX

125.1. iSTOXX EUROPE 600 IRCANTEC PAB INDEX

125.1.1. OVERVIEW

The iSTOXX Europe 600 Ircantec PAB Index tracks the performance of liquid securities from the STOXX Europe 600. The index[153] is constructed to follow the EU Paris-aligned Benchmark (EU PAB) requirements outlined in the Commission Delegated Regulation (EU) 2020/1818 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards minimum standards for EU Climate Transition Benchmarks and EU Paris-aligned Benchmarks[154]. The index is designed to help investors align investments with the overall long-term global warming target of the Paris Agreement.

Companies identified as non-compliant based on Sustainalytics Global Standards Screening (GSS) assessment or are involved in Controversial Weapons, or display a Severe (Category 5) Controversy Rating, as identified by Sustainalytics, are not eligible for selection. In addition, companies that are on Ircantec Exclusion List are excluded from the index, these are companies that do not meet Ircantec's ESG and sustainability criteria.

Tobacco Producers, and companies that derive revenues higher than 5% from wholesale or retail distribution, or services related to tobacco products, as identified by ISS ESG, are also not eligible. Securities that generate revenues above a certain threshold from coal, oil and gas exploration or processing activities are excluded. Additionally, securities that derive higher than 5% of their revenues from thermal coal-based power generation, or have thermal coal power generation capacity greater than 5 GW, or producing more than 10Mt volume from thermal coal, or higher than 50% from power generation with carbon intensity of lifecycle emissions higher than 100gCO_2e/kWh are not considered for selection. Companies that ISS-ESG identifies to be expanding their thermal coal mining or thermal coal power generation capabilities, as identified by ISS-ESG, are also excluded from the index.

Effective from March 2024, the index will also exclude companies that have been identified by ISS-ESG to have oil and gas extraction expansion operations or plans, and in addition, companies involved in unconventional oil and gas that do not have a credible GHG reduction target.

Furthermore, STOXX will exclude companies that ISS ESG assesses to have significant obstruction in the following UN SDGs: SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land.

The weighing process follows an optimization process to meet the minimum requirements detailed in the Commission Delegated Regulation (EU) 2020/1818. The index aims to reduce their greenhouse gases (GHG) emission intensity by at least 50% when compared to the

[153] Regulation (EU) 2019/2089 amending Regulation (EU) 2016/1011 as regards EU Climate Transition Benchmarks, EU Paris-aligned Benchmarks and sustainability-related disclosures for benchmarks https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019R2089

[154] https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32020R1818

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underlying benchmark. Additionally, they are designed to meet the year on year 7% decarbonization target. Scope 1, Scope 2 and Scope 3 emissions are used in the total emission considerations[155]. All of these emissions, including Scope 3, are used across all sectors from the first date of index construction.

The methodology ensures that the index exposure to 'High Climate Impact sectors', sectors that are key to low-carbon transition, is not underweighted relative to the investment universe. STOXX will classify the eligible securities into two sectoral groups: 'High Climate Impact' and 'Low Climate Impact'. This is based on the securities' NACE industry classification[156]. The securities in the index are weighted such that the total weight of the high climate impact components is at least equal to the total high climate impact weight in the corresponding underlying benchmark.

ISS ESG tracks companies that have disclosed science-based targets with the Science Based Targets initiative (SBTi)[157]. This comprises a list of securities that are setting greenhouse gas emission reduction targets in line with the goals of the Paris Agreement, i.e. to keep "global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius."[158] STOXX will use this information to identify which of these three groups companies belong to: (a) companies with concrete targets and emission reduction targets verified by SBTi, (b) companies that have committed to the SBTi but do not yet have approved targets, and (c) those that have not yet committed with the SBTi. The iSTOXX Europe 600 Ircantec PAB index overweighs companies with SBTi approved targets, and even more so those with SBTi approved targets and consistent 7% or more reduction in annual GHG intensity. Moreover, STOXX will allow up to 10 years of transition time for securities to commit and have their science-based targets approved and published by the SBTi. Securities that have not committed to the science-based initiatives will be underweighted incrementally and will not be eligible for selection starting in March 2025. Similarly, securities that are committed but do not have SBTi verified targets will be subjected to incremental underweighting. From March 2030, the index will only include companies that have their targets approved and published by the SBTi. This is with the intention of incentivizing companies to commit and set science-based targets.

ISS ESG's Carbon Risk Rating data assesses companies' capacity to manage future climate change related challenges and opportunities arising from the transition to a low-carbon economy. The risk rating considers companies' risk profiles, industry-specific challenges,

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[155] Scope 1, Scope 2 and Scope 3 data obtained from ISS ESG. As a first step, ISS ESG collects all publicly available self-reported greenhouse gas emissions data from corporate disclosures such as CDP and CSR reports. Once self-reported emissions data from all available sources is collected, the data is tested for trustworthiness. This is done through a combination of quantitative and qualitative analysis.

[156] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as "High Climate Impact" and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as "Low Climate Impact". Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

[157] https://sciencebasedtargets.org/; the SBTi is a collaboration between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI), the World Wide Fund for Nature (WWF), and one of the We Mean Business Coalition commitments

[158] https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement

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companies' positive impact and ability to seize opportunities. STOXX uses this forward-looking CO_2 risk analysis to overweigh climate leaders while laggards are underweighted.

ISS ESG's Carbon Budget data helps assess companies' alignment with different scenarios. This Carbon Budget data is used in the weighing process of the iSTOXX Europe 600 Ircantec PAB Index and to ensure the index is aligned with the IEA Sustainable Development Scenario (SDS) pathway until 2050.

Universe: STOXX Europe 600 Index, as observed on the review effective date.

Weighting scheme: The index is price-weighted with weighting factors determined according to an optimization process to meet the EU PAB recommendations

Base value and date: 100 on Dec 31, 2021

Index types and currencies: Price, Net and Gross return in EUR and USD

125.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied.

Global Standards Screening:
STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

Controversial Weapons:
STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:
» Internal production or sale
» The ultimate holding company owns >10% of voting rights of an involved company
» >10% of voting rights of a company is owned by the involved company

Controversy Ratings:
STOXX will exclude companies that Sustainalytics identifies to have a Controversy Rating of Category 5 (Severe).

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Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest Event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

Ircantec Exclusion List:
STOXX will exclude companies that are do not meet Ircantec's ESG and sustainability criteria.

Tobacco:
STOXX will exclude companies that ISS-ESG identifies to have:

- >0% revenues from involvement in the production of tobacco products.
- >5% revenues from the wholesale or retail distribution of tobacco products.
- >5% revenues from services related to tobacco products.

The remaining securities in the universe list are screened for the following fundamental values (i and ii) and ISS ESG carbon and climate related indicators (iii to xviii):

i. Free-float market capitalization (FFMCAP) in EUR

ii. Enterprise value including cash (EVIC) based on the fiscal year data for the end of the last calendar year

iii. Emissions data: Scope 1, Scope 2 and Scope 3 emissions
The GHG Protocol Corporate Standard classifies companies' greenhouse gas (GHG) emissions as direct and indirect emissions[159]. Direct emissions, also known as Scope 1 emissions, refer to GHG waste produced and consumed by the reporting entity. For instance, on-site generation and use of energy is tracked under Scope 1. In contrast, indirect emissions, comprised of Scope 2 and Scope 3 emissions, occur as a consequence of the reporting company, but are generated by another entity. Scope 2 includes acquired/ purchased energy brought into the company's reporting boundary as a form of: electricity, steam, heating and cooling, and the rest of the indirect emissions form Scope 3 emissions. Any emissions associated with upstream and downstream processes, excluding Scope 2 emissions, are accrued towards Scope 3. Business travel, processing of sold products, transportation and distribution are all examples of Scope 3 emissions[160].

iv. Percentage of revenues from coal: this looks at the securities' revenue generated from coal exploration, production (excluding power generation), distribution, and supporting products and services. Power generation revenue share is considered separately and detailed in vi.

[159] https://ghgprotocol.org/sites/default/files/standards/Scope%202%20Guidance_Final_Sept26.pdf

[160] http://www.ghgprotocol.org/sites/default/files/ghgp/standards/Scope3_Calculation_Guidance_0.pdf

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v. Percentage of revenues from fossil fuel exploration, production (excluding power generation), distribution and provision of supporting products and services: this looks at companies' revenue share in fossil fuels, including coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands. Power generation revenue share is considered separately and detailed in ix.

vi. Thermal coal-based power generation revenues: this looks at percentage of revenues derived from power generation coming solely from thermal coal.

vii. Thermal coal power generation capacity: this looks at the electric output an electricity generator can potentially produce under specific conditions.

viii. Thermal coal production volume: this looks at the recent-year volume of coal produced by the company

ix. Power Generation revenue percentage coming from coal, oil and gas: electricity generation lifecycle assessment shows that GHG emissions coming from coal, oil and natural gas exceed 100 gCO_2e/kWh; similar assessment on renewable energy and nuclear power sources shows that the lifecycle GHG emissions is well below 100 gCO_2e/kWh7[161]. For this data point, ISS ESG considers coal, oil and gas-based power generation revenues.

x. UN SDGs: the ISS ESG SDG Impact Rating identifies companies' positive and negative impact towards the UN Sustainable Development Goals (UN SDGs) across three pillars: Product & Services, Operations and Controversies. STOXX will use the dataset to minimize index exposure to obstructions in the 4 environmental related UN SDGs, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action, SDG 14 Life Below Water and SDG 15 Life On Land., by screening out companies identified to have significant obstruction in these areas.

xi. Carbon Risk Rating: ISS ESG evaluates companies' capacity to cope with future challenges related to climate change and to seize opportunities arising from a transition to a low-carbon economy. This data will be used to overweigh climate leaders, and climate laggards will be underweighted.

xii. Carbon Budget: ISS ESG Carbon Budget data helps assess companies' alignment with different scenarios. STOXX will use this Carbon Budget data in the weighing process and to ensure the index is aligned with the IEA Sustainable Development Scenario (SDS) pathway until 2050.
The ISS ESG scenario analysis combines the IEA scenario with the Sectoral Decarbonization Approach (SDA) by allocating a share of a global carbon budget to every company based on its market share and the IEA/SDA emissions scenario associated with its sector.

xiii. (Effective March 2022) Thermal Coal Mining Expansion: this looks at companies' involvement in thermal coal mine development operations or plans.

[161] https://www.ipcc.ch/site/assets/uploads/2018/03/SRREN_Full_Report-1.pdf

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xiv. (Effective March 2022) Thermal Coal Power Generation Expansion: this looks at companies' involvement in coal power expansion or plans.

xv. (Effective March 2024) Oil and Gas Extraction Expansion: this looks at companies' involvement in oil and gas extraction expansion operations or plans.

xvi. (Effective March 2024) Unconventional Oil & Gas production: this looks at companies' involvement in unconventional oil and gas production, more precisely in extraction and processing of oil sands for the most recent fiscal year period, extraction of oil and gas extraction through arctic drilling for the most recent fiscal year period, hydraulic fracturing for the most recent fiscal year period, any involvement in deepwater drilling and any involvement in oil shale.

xvii. Percentage of revenues from green sources: revenues coming from renewable energy sources such as: wind, solar, hydro, biomass and geothermal sources. Nuclear Power is also considered as a green revenue source. In addition to these, the definition of green revenues extends to revenues that contribute to UN Sustainable Development Goal (SDG) 13, Climate Action.

xviii. Percentage of revenues from brown sources: any revenues from fossil fuels (coal, oil, gas, Arctic drilling, hydraulic fracturing and oil sands) and the provision of supporting products or services is considered as brown revenue. The definition of brown revenues also extends to revenues that are obstructive to UN Sustainable Development Goal (SDG) 13, Climate Action.
Green and brown energy revenue shares will be used in the construction of the index to ensure the total green share / brown revenue share of the index is at least four times that of the underlying benchmark's green to brown revenue shares.

xix. Science-based Climate Targets: ISS ESG tracks securities that have disclosed science-based targets in line with the level of decarbonization required to keep global temperature increase below 2°C. STOXX will use this data to identify which of the following groups companies fall into:

a. companies with concrete targets and emission reduction targets verified by the SBTi
b. companies that have committed with the SBTi but do not yet have approved science-based targets. Committed companies have 24 months to have their targets approved and published by the SBTi
c. companies that have Ambitious Target: ISS ESG identifies companies that do not have Committed or Approved SBT, but have greenhouse gas reduction targets.

Securities with targets verified by the SBTi will be overweighed in the index. Securities with no commitments or no SBTi approved targets will be subjected to incremental underweighting and will not be eligible for selection starting 2025 and 2030 respectively.

If any of the i to xii fields are unavailable for a security, the company will not be eligible for selection. If any of the xiii to xvi fields are unavailable, the company will be assumed to be not involved. Additionally, if a security does not have green or brown revenue share data, STOXX

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will assume the revenue share in these areas to be zero. STOXX will assume that a security is not committed if no science-based climate target data is available for it.

The selection list is made of all the remaining stocks that fulfil the conditions below:

- Market capitalization requirements: Free float market capitalization (FFMCAP) equal to or exceeding 1 billion EUR, for current constituents of the index the threshold is lowered to 500 million EUR.
- Activity exclusions: Companies that generate revenues above the specific thresholds with respect to the activities below are not eligible for selection:
    - STOXX will exclude companies that ISS ESG identifies to have 1% or higher revenues from coal exploration, production (excluding power generation), distribution and supporting product and services. Effective March 2030, companies that have greater than 0% revenues will be excluded.
    - STOXX will exclude companies that ISS ESG identifies to have 10% or higher revenues from fossil fuel exploration, production (excluding power generation), distribution and supporting products and services
    - STOXX will exclude companies that ISS ESG identifies to have 5% or higher revenues from thermal coal-based power generation
    - STOXX will exclude companies that ISS ESG identifies to have greater than 5GW in thermal coal power generation capacity
    - STOXX will exclude companies that ISS ESG identifies to have be producing more than 10Mt volume from thermal coal
    - STOXX will exclude companies that ISS ESG identifies to have 50% or higher revenues from power generation with carbon intensity of lifecycle GHG emissions higher than 100g CO_2e/kWh
    - Effective March 2022, STOXX will exclude companies that ISS ESG identifies to have any involvement in thermal coal mine development operations or plans
    - Effective March 2022, STOXX will exclude companies that ISS ESG identifies to have any involvement in coal power expansion or plans
    - Effective March 2024, STOXX will exclude companies that ISS ESG identifies to have any involvement in oil and gas extraction expansion operations or plans.
    - Effective March 2024, STOXX will exclude companies that ISS ESG identifies to not have an “Ambitious Target” GHG Reduction Target or any SBT and derive revenues or have any involvement in the following unconventional Oil & Gas production:
        - >0% revenues from the extraction and processing of oil sands for the most recent fiscal year period.
        - >0% revenues from the extraction of oil and gas extraction through arctic drilling for the most recent fiscal year period.
        - >0% revenues from hydraulic fracturing for the most recent fiscal year period.
        - Any involvement in deepwater drilling
        - Any involvement in oil shale

- STOXX will exclude companies that ISS ESG assesses to have significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15.

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Composition list:
The final composition list comprises all the securities that fulfil the requirements listed above.
The securities' weights are derived through an optimization process and designed to meet the following requirements:

EU PAB Minimum requirements	iSTOXX Europe 600 Ircantec PAB
Minimum Scope 1+2+3 GHG intensity reduction compared to the STOXX Europe 600 The GHG intensity of a security is calculated as: $\frac{Scope\ 1 + Scope\ 2 + Scope\ 3\ GHG\ Emissions}{Enterprise\ Value\ including\ Cash\ (in\ MEUR)}$	At least 60% (includes a 10% buffer)
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum exposure to sectors highly exposed to climate change issues compared to the underlying STOXX Europe 600 These sectors are identified as "High Climate Impact" based on NACE section codes[162]	At least equal
Corporate target setting (CTS)	The Corporate target setting score aims to ensure that companies with Science Based Target are overweighed and that: - by 2025, all companies in the index are committed to reducing their GHG emissions, and - by 2030, all companies in the index have SBTi approved science-based targets In more details: 5. Companies that have science-based targets approved and reported through the Science Based Target initiative and have reduced their total GHG emission intensity (Scope 1,2 and 3 emissions) by an average of at least 7% per annum for at least 3 consecutive years will have their weights increased by 1/3 6. Companies that have science-based targets approved and reported through the Science Based Target initiative but have not fulfilled the above carbon reduction criteria will have their weights increased by 1/5 7. Companies that are committed to reducing their GHG emissions but do not yet have science-based targets approved by the Science Based Target initiative will have their

[162] Stocks in the NACE Section codes: A, B, C, D, E, F, G, H, L are classified as "High Climate Impact" and stocks in the NACE section codes: I, J, K, M, N, O, P, Q, R, S, T, U as "Low Climate Impact". Further information regarding NACE can be found on https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Statistical_classification_of_economic_activities_in_the_European_Community_(NACE)

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	weights reduced by Y/10 where Y is the number of years since 2020 8. Companies that are not committed to reducing their GHG emissions will have their weight reduced by Y/5 where Y is the number of years since 2020
Additional considerations	iSTOXX Europe 600 Ircantec PAB
Alignment with ISS ESG scenario alignment approach for the IEA Sustainable Development Scenario (SDS) pathway	The emissions pathway of the index must be below the carbon budget for the SDS pathway of the current year and 2050
Carbon Risk Rating tilt	Climate leaders are overweighed, and climate laggards are underweighted
Carbon Budget risk tilt	Companies that are well positioned to meet their carbon budget are overweighed
Minimum green share / brown share ratio compared to the STOXX Europe 600	At least 4 times
Diversification	Exposure to a single NACE Section is within 5% of the of the underlying benchmark's exposure If the underlying benchmark's exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[163] weights will be imposed for the PAB index. In this case, the STOXX PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying benchmark's exposure by higher than 5% Country exposure is within 5% of the country weight in the underlying benchmark
Weight capping	Maximum weight: 4.5% Minimum weight: 0.01%

Weighting and capping factors:
The weights are derived though an optimization process with the goal to have a portfolio which is in line or beyond the decarbonization trajectory from the IPCC's 1.5°C scenario and that overweighs companies with a clear and proved evidence-based carbon reduction target as verified by SBTi.

Target weight calculations:
The target weight is defined according to the free-float market capitalization subject to the corporate target setting and carbon risk rating multipliers, as follows:

$$w_i = \frac{ffmcap_i \cdot CTS_i * CR_i}{\sum_j^n ffmcap_j \cdot CTS_j * CR_j}$$

[163] NACE Division is a step lower (more granular) from the NACE Section code

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Where:

CTS_i	= (1 + 1/3) if a company has verified science-based targets in accordance to the SBTi and has reduced its GHG intensity by an average of at least 7% per annum for at least 3 consecutive years
	= (1 + 1/5) if a company has verified science-based targets in accordance to the SBTi but has not fulfilled the above GHG intensity reduction criteria
	= (1 – min(1, Y/10)) if a company is committed to reducing its GHG emissions but does not have science-based targets approved by the SBTi
	= (1 – min(1, Y/5)) if a company is not committed to reducing its GHG emissions
Y	=number of years since 2020. Y is 2 for 2022
N	=number of components in the index
CR_i	= (1 + CR_z_i) if CR_z_i >0
	= $(1 - CR_z_i)^{-1}$ if CR_z_i <=0
CR_z_i	= CRR_z_i - CBR_z_i
CRR_z_i	= zeta score of the company's Carbon Risk Rating, as defined by ISS ESG
CBR_z_i	= zeta score of the company's Carbon Budget risk, calculated as

$$CBR_i = \frac{\sum \varphi_j * ln\left(\frac{current\ carbon\ emission_i}{carbon\ budget_{i,j}}\right)}{\sum \varphi_j}$$

Where: $\varphi_j = (1-\lambda) * \lambda^j, \quad j = 0, \dots, 2050 - current\ year$

$\lambda = 0.94$ (standard decay factor[164])

Capped weight calculations:

The capped weights cw_i are derived from target weights via an optimization that minimizes the relative squared difference between the target weights and the capped weights while ensuring that the year-on-year self-decarbonization fulfils the criteria of at least 7% on average starting from 2022 with respect to 2023. The optimization is performed to arrive at the weights subject to constraints to ensure that the composition fulfils the minimum requirements:

$$cw_i = argmin_{cw}\left(\sum_{i=1}^{n}\left(\frac{(cw_i - w_i)^2}{w_i}\right)\cdot\frac{1}{n} + \frac{(Previous\ year's\ GHG\ intensity\ reduction - 0.07)^2}{0.07}\right)$$

[164] Standard decay factor, suggested and used by Riskmetrics

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The previous year's GHG intensity reduction (starting from 2022 with respect to 2021) is calculated as:

$$1-\left(\frac{Index\ GHG\ Intensity_{current}\cdot(Inflation\ Adjustment\ Factor)}{Index\ GHG\ Intensity_{previous\ year-end}}\right)$$

where $Index\ GHG\ Intensity_t = \sum_{i=1}^{n}\left(w_{i,t}\cdot Security\ GHG\ Intensity_{i,t}\right)$ and $w_{i,t}$ is the weight of company i in the index at time t.
In calculating the previous year's GHG intensity reduction, the current GHG intensity is multiplied by the enterprise value inflation adjustment factor[165] in order to reflect the effects of inflation in enterprise values as an increasing average enterprise value of the index constituents could lead to an overall GHG intensity reduction where no actual GHG emissions reductions took place.

The following are the constraints of the optimization:

a) Maximum security weight of 4.5%, and minimum weight of 0.01%:

b) The GHG intensity reduction of the index, $\sum_{i=1}^{n}(cw_i\cdot Security\ GHG\ Intensity_i)$ should be at least 60% when compared to the underlying benchmark GHG Intensity

c) Year-on-year GHG intensity reduction of at least 7% starting from 2022 with respect to 2021. The year-on-year carbon reduction included is calculated as:

$$1-\left(\frac{Index\ GHG\ Intensity_{current}\cdot Cumulative\ Inflation\ Adjustment\ Factor}{Index\ GHG\ Intensity_{2021\ year-end}}\right)^{1/T}$$

where *T* is the number of years since 2021

d) The green revenue share / brown revenue share of the index, $\frac{\sum_{i=1}^{n}(cw_i\cdot Green\ Revenue\ \%_i)}{\sum_{i=1}^{n}(cw_i\cdot Brown\ Revenue\ \%_i)}$, is at least 4 times that of the underlying benchmark

e) The total exposure of components in the "High Climate Impact" according to NACE classification is at least equal to the corresponding benchmark

f) The exposure to a single NACE Section code is within 5% of the underlying benchmark exposure

If the underlying benchmark exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division weights will be imposed for the iSTOXX Europe 600 Ircantec PAB index. In this case, the iSTOXX Europe 600 Ircantec PAB exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying benchmark exposure by higher than 5%

g) The exposure to a country is within 5% of the STOXX Europe 600

[165] The enterprise value inflation adjustment factor is computed by dividing the average enterprise value of the index constituents at the end of calendar year by the average enterprise value of the index constituents at the end of the previous calendar year and has a minimum value of 1

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h) The emission pathway of the index must be below its carbon budget for the IEA Sustainable Development Scenario (SDS) pathway of the current year and 2050. This is to ensure that the index is aligned with the SDS pathway decarbonization trajectory until 2050

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Review frequency:
The review is conducted on an annual basis in March. On a quarterly basis in June, September and December, the index is rebalanced to consider changes in free-float or shares in issue. Furthermore, current components are screened for compliance, involvement, controversy and if they fail to meet Ircantec's ESG and sustainability criteria, as per IRCANTEC's company exclusion lists. The cut-off date for the underlying data is the last calculation day of February, May, August and November respectively.

Summary	iSTOXX Europe 600 Ircantec PAB
Universe	STOXX Europe 600
Screens	
Baseline Exclusions (quarterly)	Global Standards Screening Controversial Weapons Tobacco involvement Significant obstruction to the UN Sustainable Development Goals (SDGs) 12, 13, 14 and 15 Severe (level 5) Controversy Rating Ircantec's ESG and sustainability criteria
Market capitalization Requirements (quarterly)	FFMCAP equal to or exceeding 1 billion EUR, for current constituents the threshold is lowered to 500 million EUR
Activity Exclusions (quarterly)	Revenues from Coal activities: 1% or higher (Effective March 2030, 0%) Revenues from Fossil Fuel activities: 10% or higher Revenues from power generation coming from Coal: 5% or higher Capacity from power generation coming from Coal: > 5GW Production volume from thermal coal: > 10 Mt Revenues from power generation coming from Coal, Oil & Gas: 50% or higher Effective in March 2022, Involvement in thermal coal mining expansion Effective in March 2022, Involvement in thermal coal power generation expansion Effective in March 2024, involvement in oil and gas extraction expansion Effective in March 2024, involvement in unconventional oil and gas without a credible GHG reduction target Effective in March 2025, companies without commitment to SBTi Effective in March 2030, companies without approved SBTi targets

Weighing process: weights derived through an optimization process to meet EU PAB requirements

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Minimum Scope 1+2+3 GHG intensity reduction compared to corresponding STOXX Europe 600 Scope 1, 2 and 3 emissions, are used across all sectors from the first date of index construction	At least 60% (includes a 10% buffer)
Year-on-year self-decarbonization per annum relative to the levels at inception in accordance with the global decarbonization trajectory implied by IPCC's 1.5°C scenario with no or limited overshoot	At least 7% on average per annum since index launch, after taking in consideration any inflation in enterprise values
Minimum green share / brown share ratio compared to the underlying benchmark	At least 4 times
Minimum exposure of sectors highly exposed to climate change compared to the underlying benchmark	At least equal
Corporate target setting (CTS)	Securities' free float market cap weights tilted with CTS score to favor securities with science-based targets. CTS scores assigned as follows:

CTS score	2022	2023	…	2025	…	2029	2030 and later
Committed, has SBTi verified targets, and reduces GHG emission (>= 7%/annum for 3 years)	1+1/3 = 4/3						
Committed, has SBTi verified targets, but does not reduce GHG emissions by 7% per annum	1+1/5 = 6/5						
Committed but does not have SBTi approved targets	8/10	7/10	…	5/10	…	1/10	0
Not committed	3/5	2/5	..	0			

Additionally, Carbon Budget and Carbon Risk score and will be used to tilt the weights further. Tilt factor obtained as follows:

$CR_i = (1 + CR_z_i)$ if $CR_z_i > 0$

$= (1 - CR_z_i)^{-1}$ if $CR_z_i <= 0$

$CR_z_i = CRR_z_i - CBR_z_i$

CRR_z_i= zeta score of the company's Carbon Risk Rating, as defined by ISS ESG

CBR_z_i = zeta score of the company's Carbon Budget risk, calculated as

125. iSTOXX EUROPE 600 IRCANTEC PAB INDEX

	$$CBR_i = \frac{\sum \varphi_j * ln\left(\frac{current\ carbon\ emission_i}{carbon\ budget_{i,j}}\right)}{\sum \varphi_j}$$ Where: $\varphi_j = (1-\lambda) * \lambda^j, j = 0, \dots, 2050 - current\ year$ $\lambda = 0.94$ (standard decay factor[166]) $w_i = \frac{ffmcap_i \cdot CTS_i * CR_i}{\sum_j^n ffmcap_j \cdot CTS_j * CR_j}$; where w_i is the weight of security i	
Diversification	Exposure to a single NACE Section is within 5% of the of the underlying benchmark exposure If the underlying benchmark's exposure in any of the NACE Sections is greater than 30%, an additional maximum exposure constraint on the NACE Division[167] weights will be imposed for the PAB index. In this case, the STOXX PAB Index exposure to a single NACE Division (within the NACE Section) cannot exceed the underlying benchmark exposure by higher than 5% Country exposure is within 5% of the country weight in the underlying benchmark	
Weight Capping	Maximum weight:4.5% Minimum weight: 0.01%	
Selection and Weighing Frequency		
Review and Rebalancing	Review is conducted on an annual basis in March, and rebalanced quarterly in June, September and December	

125.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently

[166] Standard decay factor, suggested and used by Riskmetrics

[167] NACE Division is a step lower (more granular) from the NACE Section code

126. iSTOXX FAMILY OWNED ESG COMPANY INDICES

126.1. iSTOXX FAMILY OWNED ESG COMPANY INDICES

126.1.1. OVERVIEW

The iSTOXX Family Owned ESG Company indices are a set of indices that track the performance of the largest Global stocks that are classified as family-owned by the Centre of Family Entrepreneurship and Ownership (CeFEO).
Companies that are non-compliant based on the ISS-ESG Norms Based Screening assessment or are involved in Controversial Weapons are not eligible for selection. Additional exclusion filters are applied, screening companies for involvement in Tobacco, Thermal Coal, Gambling, Pornography, Civilian Firearms, and Military Contracting.

Universe: Constituents of STOXX Global Total Market Index, STOXX China A Total Market Index, STOXX China P Chips Total Market, STOXX World DR as observed on the review effective date.

Weighting scheme: The indices are price-weighted with weighting factors determined according to Free Float Market Capitalization and Carbon Risk Rating of the constituents.

Base values and dates: 100 on Mar 22, 2021

For a complete list please consult the data vendor code sheet on the website[168]. Customized solutions can be provided upon request.

Index types and currencies: Price, Net and Gross return in EUR, USD, CHF

126.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date, a set of exclusionary criteria are applied.

Multiple share lines: In case a company is present with multiple listings in the eligible universe then only the most liquid share line is eligible. In case of company belonging to Emerging Market priority is given to ADR and GDR with ADR having priority over GDR.

Norms Based Screening:
Companies are assessed against their adherence to international norms on human rights, labor standards, environmental protection and anti-corruption established in the UN Global Compact and the OECD Guidelines. Companies identified as ‘Red’ are excluded. ISS-ESG identifies companies are ‘Red’, if they are failing to respect established norms and where the issue remains unaddressed.

[168] http://www.STOXX.com/download/indices/vendor_codes.xls

126. iSTOXX FAMILY OWNED ESG COMPANY INDICES

Controversial Weapons:
Not involved in Controversial Weapons activities, as identified by ISS-ESG. The following weapons are considered controversial: white phosphorus, anti-personnel mines, biological weapons, chemical weapons, cluster munitions, depleted uranium program, and nuclear weapons. ISS ESG's Controversial Weapons Research is designed to identify all companies in a corporate structure that have control over the relevant business activities, i.e., all immediate parent companies up to the ultimate parent. Companies identified as 'Red' are excluded.

Family-Owned Companies:
STOXX will exclude companies not classified as family-owned by the Centre of Family Entrepreneurship and Ownership (CeFEO) and that are not in the top 500 in terms of Revenue within the family owned companies.
A company is considered family-owned if

1. The family has substantial ownership and decision-making authority in the business. That is, two or more family members hold at least 25% of the voting rights.
2. If two or more companies held by the same family qualify, only the one with the highest revenues is included in the database.
3. Revenues of the featured businesses originate from published accounts that are no more than 24 months old.

The remaining securities in the universe list are screened f or the following fundamental values (i and ii) and ISS-ESG product involvement and climate related indicators (iii to iv):

i) Free-float market capitalization (FFMCAP) in EUR
ii) 3-month Average Daily Traded Volume (ADTV) in EUR
iii) Carbon Risk Rating: ISS ESG evaluates companies' capacity to cope with future challenges related to climate change and to seize opportunities arising from a transition to a low-carbon economy. This data will be used to overweigh climate leaders, and climate laggards will be underweighted.
iv) Product Involvement in the categories Tobacco, Thermal Coal, Military Equipment, Civilian Firearms, Gambling and Pornography as evaluated by ISS-ESG.

Companies with missing data for the points (i to iv) are excluded.

Size & Liquidity:

- Free float market capitalization (FFMCAP) equal to or exceeding 500 million EUR
- 3-month Average Daily Traded Volume (ADTV) equal to or exceeding 1 million EUR

Tobacco:
STOXX will exclude companies that ISS-ESG identifies to have:

- >0% revenues from involvement in the production of tobacco products.
- >5% revenues from services related to tobacco products.
- >5% revenues from the wholesale or retail distribution of tobacco products.

126. iSTOXX FAMILY OWNED ESG COMPANY INDICES

Thermal Coal:
STOXX will exclude companies that ISS-ESG identifies to have:

- >10% revenues from thermal coal mining, including any exposure in production or services. The maximum percentage of revenues values are based on the best available data, which may include reported revenues, reported percentage of revenues, or estimated revenues based on available information.

- >5% revenues from generation of electric power using coal. The maximum percentage of revenues values are based on the best available data, which may include reported revenues, reported percentage of revenues, or estimated revenues based on available information.

Military Equipment:
STOXX will exclude companies that ISS-ESG identifies to have:

- >5% revenues from involvement in the production of military equipment and/or provision of related services.
- >10% revenues from involvement in military equipment and services.

Civilian Firearms:
STOXX will exclude companies that ISS-ESG identifies to have:

- >5% revenues from involvement in the production of civilian firearms and/or the provision of related services.
- >5% revenues from involvement in the distribution of civilian firearms.

Gambling:
STOXX will exclude companies that ISS-ESG identifies to have:

- >10% revenues from involvement in operation or management of any activity involving the waging of money on a game or event, such as casinos, racetracks, or other betting/gambling establishments. It also includes, among others, lottery operations, online and mobile gambling, and sporting events that permit wagering.
- > 10% revenues from involvement in the provision of key products, services, technology, and support fundamental to gambling operations, such as slot machines, gambling software design, lottery ticket printing, casino management, and other activities.

Pornography:
STOXX will exclude companies that ISS-ESG identifies to have:

- >5% revenues from involvement in the production, direction, or publication of pornography, including X-rated films, sexually explicit video games, adults-only material on the internet, live entertainment, or books or magazines with adult content.
- >5% revenues from involvement in the Independent wholesale distribution of pornography products, in the retailing of pornography products, or issuers that grant authorization to use a company or brand name to produce or market an adult entertainment product.

For the companies satisfying the above criteria, the adjusted_ffmcap is calculated by multiplying the FFMCAP with the carbon risk rating factor.

126. iSTOXX FAMILY OWNED ESG COMPANY INDICES

$$adjusted\ ffmcap_i = ffmcap_i * crrf_i(z_i)$$

Where:
$ffmcap_i =$ free-float market capitalization of the company at cut-off date

$$\mathrm{crrf_i} = \begin{cases} (1 + \mathrm{z_i})\ if\ z_i \geq 0 \\ \left(\frac{1}{1-\mathrm{z_i}}\right)\ if\ z_i < 0 \end{cases}$$

$z_i = \frac{\mathrm{x_i} - \overline{\mathrm{X}}_\mathrm{p}}{\mathrm{S_p}}$ is the Z-score for the population
$\mathrm{x_i} =$ ISS-ESG Carbon Risk Rating value for company i
$\overline{\mathrm{X}}_\mathrm{p} =$ Mean of the population (calculated on the universe)
$\mathrm{S_p} =$ Standard Deviation of the population (calculated on the universe)

Composition list:
From the Selection list, 4 indices are derived.
For the iSTOXX Global Family Owned ESG Company Index the largest 100 companies in terms of adjusted ffmcap are selected.
For the iSTOXX US Family Owned ESG Company Index the largest 40 companies in terms of adjusted ffmcap belonging to the US are selected.
For the iSTOXX Eurozone Family Owned ESG Company Index the largest 40 companies in terms of adjusted ffmcap belonging to the developed markets of the Eurozone are selected.
For the iSTOXX Swiss Family Owned ESG Company Index the Swiss companies are selected.

Review frequency: The reviews are conducted on a semi-annual basis in March and September.

Weighting cap factors:
Target weight calculations: The target weight are proportional to the adjusted ffmcap

$$w_i = \frac{adjusted\ ffmcap_i}{\sum_j^n adjusted\ ffmcap_j}$$

With the following caps based on the index region applied

Region	Single component cap
Global	4%
USA	10%
Eurozone	10%
Switzerland	20%

Additionally, for the iSTOXX Global Family Owned ESG Company Index the Emerging Market components are capped at aggregated maximum weight of 20%.

Weighting factors are based on the closing prices in EUR (pi) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x wi / pi), rounded to the nearest integer value.

126. iSTOXX FAMILY OWNED ESG COMPANY INDICES

126.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.
Fast exit: Not applicable.
Fast entry: Not applicable.
Spin-offs: Spin-offs are not added permanently
Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

127. iSTOXX APG DEVELOPED REAL ESTATE INDEX

127.1. iSTOXX APG DEVELOPED REAL ESTATE INDEX

127.1.1. OVERVIEW

The iSTOXX APG Developed Real Estate Index is a free float-adjusted market capitalization index designed to capture the performance of companies classified in the Real Estate sector, according to the ICB Classification, and whose revenues derive from Real Estate activities.

Revere (RBICS) data allow for a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure.

Universe: The index universe is defined by all the securities included in the STOXX Developed Markets Total Market Index, as observed on the review effective date. The review effective date is the first Monday after the third Friday of the review month.

Weighting scheme: The indices are weighted according to free-float market capitalization

Base values and dates: 1000 on September 21, 2012

Index types and currencies: Price, Net and Gross return in EUR and USD

Dissemination calendar: STOXX Global Calendar

127.1.2. INDEX REVIEW

Selection list: All securities in the universe are screened for the below information at the review cut-off date:

i. 3-month Median Daily Traded Volume (MDTV) in USD
ii. Free-float market capitalization in USD
iii. ICB classification: stocks classified as belonging to the eligible ICB list
iv. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

If any of the fields i), ii), iii), and iv) above have missing information for a stock, then that company is excluded from the selection process.

The selection process consists of the following steps in the order they are listed:

<u>Step 1.</u>
Size and liquidity screening:

- Only constituents whose free-float market capitalization is greater than or equal to 200 million USD are eligible.

127. iSTOXX APG DEVELOPED REAL ESTATE INDEX

- Only constituents whose 3-month Median Daily Traded Volume (MDTV) in USD is greater than or equal to 1 million USD are eligible.

Step 2.
ICB Classification screening:

- Only constituents whose ICB subsector classification belongs to the following ICB subsectors are eligible:

ICB Subsector
Closed End Investments
Real Estate Holding and Development
Real Estate Services
Diversified REITs
Health Care REITs
Hotel and Lodging REITs
Industrial REITs
Infrastructure REITs
Office REITs
Residential REITs
Retail REITs
Storage REITs
Other Specialty REITs
Storage Facilities

- Among the ICB subsectors listed above, Real Estate Holding and Development, Office REITs, Retail REITs, are identified as core real-estate ICB subsectors.

Step 3.
RBICS sectors screening:

- Only constituents whose RBICS sector classification belongs to the following RBICS sectors are eligible.

- Among the RBICS sectors listed above, Commercial Real Estate Services and Brokers, Other Infrastructure Construction, Residential Real Estate Brokerage, Residential Real Estate Services and Brokerage, are identified as extended real-estate activities, while all others are identified as core real-estate activities.

Step 4.
RBICS sector comparison screening:

127. iSTOXX APG DEVELOPED REAL ESTATE INDEX

RBICS L6_NAME	RBICS L6_NAME
All Apparel Retail	International Full-Service Restaurants and Bars
Apartment Equity REITs	Land Equity REITs
Asia/Pacific Department Stores	Luxury Hotels and Resorts
Assisted Living	Manufactured Homes Equity REITs
Building Construction	Mixed-Type Hotels, Motels and Resorts
Casinos and Casino Hotels	Multi-Type Equity REITs
Colocation and Data Center Services	Office Equity REITs
Commercial and Residential Property Owners	Off-Price Retail Stores
Commercial Property Owners	Off-Price Retailers
Commercial Real Estate Services and Brokers	Other Hospitals
Diversified Patient Care	Other Infrastructure Construction
Diversified Real Estate Investment and Services	Other Long-Term Care Facilities
Diversified REITs	Primary and Secondary Education
Europe Department Stores	Primary Patient Care
Fitness and Recreational Sports Centers	Real Estate Developers
Full Service Hotels and Resorts	Residential Property Owners
General and Acute Hospitals	Residential Real Estate Brokerage
Healthcare and Life Sciences Equity REITs	Residential Real Estate Services and Brokerage
Home Builders	Retail Equity REITs
Home Builders	Self-Storage Equity REITs
Home Centers and Hardware Stores	Skilled Nursing Facility (Nursing Home)
Hotel and Motel Equity REITs	Student and Specialty Housing Equity REITs
Industrial and Warehouse Equity REITs	

- Only constituents whose aggregated revenues from RBICS core real-estate activities are greater than the aggregated revenues from the RBICS extended real-estate activities, are eligible.

Step 5.
RBICS sectors threshold screening:

- Constituents whose ICB subsector belongs to the core real-estate ICB subsectors, must derive at least 65% of their aggregated revenues from the RBICS sectors (all sectors listed in Step 3) to be eligible[169].

[169] The threshold is set to 60% for current components.

127. iSTOXX APG DEVELOPED REAL ESTATE INDEX

- Constituents whose ICB subsector belongs to not core real-estate ICB subsectors, must derive at least 75% of their aggregated revenues from the RBICS sectors (all sectors listed in Step 3), to be eligible[170].

Step 6.
RBICS segments screening:

- Constituents that derive more than 50% of their aggregate revenues from Fund management activities, are not eligible.

Composition list: All securities in the universe that passed the selection screenings are selected for final index composition.

Review frequency: The reviews are conducted semi-annually in March and September. The review cut-off date for the underlying data is the last dissemination day of the month prior to the review month.

Weighting cap factors: The components are not subject to component weight restrictions and capping.

127.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast entry: Not applicable.

Fast exit: Not applicable.

Spin-offs: Spin-offs are added permanently if qualifying for the iSTOXX APG Developed Real Estate Index as of the latest quarterly review list in terms of free-float market capitalization.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

[170] The threshold is set to 70% for current components.

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

128.1. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

128.1.1. OVERVIEW

The iSTOXX Global Healthcare ESG Exclusions Select 30 Index tracks 30 liquid stocks with low volatility and high dividend yield from the STOXX Global 1800 Healthcare Index after a set of compliance, involvement and ESG performance screens are applied. Companies that are non-compliant with the Global Standards Screening (GSS) or are involved in Controversial Weapons activities or display a Severe (Category 5) Controversy Rating, as identified by Sustainalytics, are excluded. Additional exclusion filters are incorporated, screening companies for involvement in Weapons (Small Arms and Military Contracting), Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco.

Universe: STOXX Global 1800 Healthcare Index

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of the historical volatility (maximum between 3-month and 12-month historical volatility in EUR) of the constituents.

Base values and dates: 100 on December 22, 2014.

Index types and currencies: Price, net return and gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar

128.1.2. INDEX REVIEW

Selection list:
The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks are screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 3-month Average Daily Traded Volume (ADTV) in EUR
iv. Product Involvement information in the categories: Weapons (Small Arms and Military Contracting), Adult Entertainment, Gambling, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), Conventional Oil & Gas, Thermal Coal, Nuclear Power and Tobacco

If any of the fields above have missing information for a stock, then that company is excluded from the selection process. Companies with 12-month historical gross dividend yield equal to 0 will also be excluded. Companies without Global Standards Screening (GSS), Controversial Weapons involvement, or Controversy Rating data are not excluded from the selection.

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

The Selection list constitutes of all remaining stocks that fulfil all the conditions below:

- **Minimum liquidity**: 3-month Average Daily Traded Volume (ADTV) in EUR equal to or exceeding 10 million EUR

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment. Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons:** STOXX will exclude companies that are not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Controversy Ratings:** STOXX will exclude companies that Sustainalytics identifies to have a Controversy Rating of Category 5 (Severe). Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate,3- Significant, 4- High, 5- Severe). The highest Event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

- **Product Involvement**: Not have any Product Involvement in the following areas[171]. STOXX will exclude companies that Sustainalytics identifies to have:

  Weapons:
  i. Small Arms:
  »>10% revenues from manufacturing and selling assault weapons to civilian customers
  »>10% revenues from manufacturing and selling small arms to military / law enforcement customers
  »>10% revenues from manufacturing and selling key components of small arms
  »>10% revenues from retail and/or distribution of assault weapons

[171] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii. Military Contracting:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defense industry

Adult Entertainment:
»>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
»>25% revenues from the distribution of adult entertainment materials

Gambling:
»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Unconventional Oil & Gas

i. Arctic Oil and Gas Exploration:

»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii. Oil Sands:

»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day

iii. Shale Energy:

»>0% revenues from shale energy exploration and/or production

Conventional Oil & Gas:
»>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
»>0% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
»>25% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

Thermal Coal:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>0% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

Nuclear Power:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators

  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power;
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).

2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield. The 30 stocks with the highest dividend yield are selected in the index. If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($\mathrm{Z} = \mathrm{Z} + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

Weighting and capping factors: Target weights are calculated based on the inverse of the historical volatility of the selected components (using the same volatility as in the selection process):

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^{N} \frac{1}{\sigma_j}}$$

where:

w_i	target weight of component *i*
σ_i	maximum between the 3-month and 12-month historical volatility of component *i*, as of review cut-off date, based on prices in EUR
N	number of constituents in the index

Weighting factors are based on the closing prices in EUR (p_i) of the Thursday prior to the second Friday of the review month:

Weighting factor = (1,000,000,000 x w_i / p_i), rounded to the nearest integer value.

Additionally, components are capped at a maximum weight of 10%.

128.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

128.2. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 NR DECREMENT 5% INDEX

128.2.1. OVERVIEW

The iSTOXX Global Healthcare ESG Exclusions Select 30 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX Global Healthcare ESG Exclusions Select 30 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis. Consequently, due to the percentage of performance deduction, the iSTOXX Global Healthcare ESG Exclusions Select 30 NR Decrement 5% Index underperforms the iSTOXX Global Healthcare ESG Exclusions Select 30 Index that includes net dividend investments

Base value and date: 100 on December 22, 2014

Underlying Index: iSTOXX Global Healthcare ESG Exclusions Select 30 EUR Net Return Index

Decrement Amount (in Percentage points): 5

Dissemination calendar: STOXX Europe Calendar

Index Type and Currencies: EUR, Price

128.2.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying index on day t (iSTOXX Global Healthcare ESG Exclusions Select 30 EUR Net Return Index)
U_{t-1}	Underlying Single Stock Index level on day t-1 (iSTOXX Global Healthcare ESG Exclusions Select 30 EUR Net Return Index)
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (5%)

The index is to be reported and disseminated rounded to 2 decimal places.

128.2.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

128.3. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 NR RISK CONTROL 10% INDEX

128.3.1. OVERVIEW

The iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10% Index replicates the performance of a risk control overlay applied to the iSTOXX Global Healthcare ESG Exclusions Select 30 Index that targets 10% volatility.

Index types and currencies: Excess return in EUR

Base values and dates: 100 on March 25, 2015.

Dissemination calendar: STOXX Europe Calendar

128.3.2. INDEX REVIEW

The Index Level is determined by:

$$IV_t = IV_{t-1} \cdot \left[1 + w_{t-1}\left(\frac{UL_t}{UL_{t-1}} - 1\right) - w_{t-1}\left(IR_{t-1}\frac{ACT(t-1,t)}{360}\right)\right]$$

Where:

IV_t = Excess Return Index level on index level determination date t
IV_{t-1} = Excess Return Index level on index level determination date t-1 (unrounded value used)
w_{t-1} = Weight allocation to underlying index effective on day t-1
UL_t = Index value of underlying index on day t
UL_{t-1} = Index value of underlying index on day t-1
IR_{t-1} = €STR rate on index level determination date t-1[172]
Act(t-1,t) = Number of calendar days between calculation day t-1 and calculation day t

The index is to be reported and disseminated rounded to 2 decimal places.

128.3.3. DETERMINATION OF THE TARGET WEIGHT

On any Index Level Dissemination Date t, the Target Weight shall be determined as follows:

$$Tgtw_t = \frac{TgtVol}{MaxRealizedVol_{t,(21,63)}}$$

[172] The index will be calculated using €STR that is published on day T in respect of day T-1, meaning $€STR_{t-2}$ is used in the above formula.

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

Where $MaxRealizedVol_{t,(21,63)}$ is the maximum of realized volatilities measured over 21 and 63 days.

$$RealizedVol_{t,n} = \sqrt{\frac{252}{(n-4)\times 5} \cdot \sum_{i=0}^{n-5-1} \left[ln\left(\frac{UL_{t-i}}{UL_{t-i-5}}\right)\right]^2}$$

With $n = 21, 63$.

128.3.4. DETERMINATION OF THE EQUITY WEIGHT AND INDEX REBALANCING DAYS

The index is rebalanced daily, and the Equity Weight is calculated as follows:

$$w_t = Min(Cap, Tgtw_{t-2})$$

Where: Cap = 150%

128. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 INDEX

128.4. iSTOXX GLOBAL HEALTHCARE ESG EXCLUSIONS SELECT 30 NR RISK CONTROL 10% DECREMENT 4.5% INDEX

128.4.1. OVERVIEW

The iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10% Decrement 4.5% Index replicates the performance of the iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10% Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Base value and date: 100 on March 25, 2015

Underlying Index: iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10% Index

Decrement Amount (in Percentage points): 4.5

Dissemination calendar: STOXX Europe calendar

Index Type and Currencies: EUR, Price

128.4.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying index on day t (iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10%)
U_{t-1}	Underlying Single Stock Index level on day t-1 (iSTOXX Global Healthcare ESG Exclusions Select 30 NR Risk Control 10%)
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (4.5%)

The index is to be reported and disseminated rounded to 2 decimal places.

128.4.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

129.1. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

129.1.1. OVERVIEW

The iSTOXX Global Clean Energy Selected 30 Index is comprised of companies from selected countries and related to one or more of the following themes: Energy Efficiency, Energy Equipment, Energy Transition Solutions and Generate/Sell Energy. Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the themes.

Additionally, companies involved in Adult Entertainment, Gambling, Conventional Oil and gas, Unconventional Oil and Gas, Military Contracting, Nuclear Power, Small arms, Thermal coal and Tobacco are not eligible for selection. The final index tracks 30 stocks with low volatility and high dividend yield.

Universe: The index universe is defined by all the stocks included in the STOXX Global Total Market Index, as observed on the review effective date.

Weighting scheme: The index is weighted according to free-float market capitalization considering maximum weight at 10%.

Base values and dates: 1000 on Dec 22, 2014

Index types and currencies: Price, Gross and Net return in EUR and USD

Dissemination calendar: STOXX Europe calendar

129.1.2. INDEX REVIEW

Selection: The review cut-off date is the last dissemination day of the month preceding the review month of the index, and upon this date all stocks in the base universe are screened for the following indicators:

i. 12-month historical gross dividend yield
ii. 3-month and 12-month historical volatility in EUR
iii. 1-month and 3-month Median Daily Traded Volume (MDTV) in EUR
iv. Product Involvement information in the categories: Adult Entertainment, Conventional Oil & Gas, Gambling, Nuclear Power, Thermal Coal, Tobacco, Unconventional Oil & Gas (Arctic Oil and Gas Exploration, Oil Sands and Shale Energy), and Weapons (Small Arms and Military Contracting)
v. Revenue information, as captured by Revere's detailed industry classification system (RBICS)

If any of the fields i) to v) above have missing information for a stock, then that company is excluded from the selection process.

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

The remaining companies in the index universe are screened for all of the following criteria:

- **Country classification**: stocks classified as belonging to the eligible countries list.

- **Minimum liquidity**: Minimum between 1-month and 3-month Median Daily Traded Volume (MDTV) in EUR equal to or exceeding 4 million EUR.

- **Global Standards Screening**: STOXX will exclude companies that are non-compliant based on the Sustainalytics Global Standards Screening assessment.
  Global Standards Screening identifies companies that violate or are at risk of violating commonly accepted international norms and standards, enshrined in the United Nations Global Compact (UNGC) Principles, the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights (UNGPs), and their underlying conventions.

- **Controversial Weapons:** Not involved in Controversial Weapons activities, as identified by Sustainalytics. The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons. The criteria for involvement are:
  » Internal production or sale of controversial weapons
  » The ultimate holding company owns >10% of voting rights of an involved company
  » >10% of voting rights of a company is owned by the involved company

- **Product Involvement**: Not have any Product Involvement in the following areas[173]. STOXX will exclude companies that Sustainalytics identifies to have:

  Adult Entertainment:
  »>25% revenues from the production of adult entertainment and/or owns/operates adult entertainment establishments
  »>25% revenues from the distribution of adult entertainment materials

  Conventional Oil & Gas:
  »>0% revenues from oil and gas exploration, production, refining, transportation and/or storage
  This category evaluates oil and gas related activities' share of total company's revenue. Assessments are made for producers, refiners, transporters, and companies engaged in storage (proxy: revenues).
  »>5% revenues from providing tailor-made products and services that support oil and gas exploration, production, refining, transportation and storage (proxy: revenues)
  »>50% revenues from generating electricity from oil and/or gas (proxy: generating capacity)

[173] It should be acknowledged that much of the historical data set is based on a back-filling methodology, rather than on Sustainalytics conducted research. As such, on data that is back-filled, Sustainalytics does not take claim on the actual accuracy of that data at that point in time. Furthermore, historical data sets are only meant to serve as a proxy and is not meant to be indicative of future results

Gambling:
»>25% revenues from owning and/or operating a gambling establishment
»>25% revenues from manufacturing specialized equipment used exclusively for gambling
»>25% revenues from providing supporting products/services to gambling operations

Nuclear Power:
»>25% revenues from nuclear power production:
- Utilities that own/operate nuclear power generators
  Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power

»>25% revenues from nuclear power supporting products / services, including:
- Design and construction of nuclear power plants
- Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls
- Special services, such as the transport of nuclear power materials, and nuclear plant maintenance.
- Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate

»>25% revenues from nuclear power distribution, including:
- The resale or distribution of electricity generated from nuclear power.
- This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix
  Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power

Thermal Coal:
»>0% revenues from thermal coal extraction (including thermal coal mining and exploration)
»>5% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Tobacco:
»>0% revenues from manufacturing tobacco products
»>0% revenues from supplying tobacco-related products/services
»>0% revenues from the distribution and/or retail sale of tobacco products.

Unconventional Oil & Gas

i. Arctic Oil and Gas Exploration:
»>0% revenues Oil & Gas exploration & extraction in Arctic regions

ii. Oil Sands:
»>0% revenues from extracting oil sands. This category evaluates oil sands' share of total oil and gas average production in barrels of oil equivalent per day.

iii. Shale Energy:
»>0% revenues from shale energy exploration and/or production

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

Weapons:

i. Small Arms:

»>10% revenues from manufacturing and selling assault weapons to civilian customers
»>10% revenues from manufacturing and selling small arms to military / law enforcement customers
»>10% revenues from manufacturing and selling key components of small arms
»>10% revenues from retail and/or distribution of assault weapons
»>10% revenues from retail and/or distribution of small arms (non-assault weapons)
»>10% revenues from manufacturing and selling small arms (non-assault weapons) to civilian customers

ii. Military Contracting:

»>10% revenues from manufacturing military weapons systems and/or integral, tailor made components of these weapons
»>10% revenues from tailor made products and/or services that support military weapons
»>10% revenues from non-weapons related tailor-made products and/or services to the military or defence industry

- **Controversy Ratings**: STOXX will exclude companies that Sustainalytics identifies to have a Controversy Rating of Category 5 (Severe).
  Sustainalytics assesses companies' involvement in incidents with negative environmental, social and governance (ESG) implications. Controversy involvement is one key measure of ESG performance. A controversy is defined as an event or aggregation of events relating to an ESG topic. An event is assessed on its severity on a scale of 1 to 5 (1- Low, 2- Moderate, 3- Significant, 4- High, 5- Severe). The highest Event rating under a controversy indicator, automatically becomes the Controversy Rating for a given company.

- **Revenues**: Revenue exposure equal to or exceeding 20%, from the aggregation of the RBICS sectors associated (please see table below).

- **Multiple share lines**: in case a company is present with multiple listings in the eligible universe after the application of all the filters above, then only the most liquid share line is retained.

The eligible countries are defined as follows:

Australia	Hong Kong	Portugal
Austria	Hungary	Singapore
Belgium	Ireland	Spain
Canada	Italy	Sweden
Czech Republic	Japan	Switzerland
Denmark	Luxembourg	UK
Finland	Netherlands	USA
France	New Zealand	
Germany	Norway	
Greece	Poland	

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

List of RBICS sectors associated with the theme for the purposes of component selection:

Nr.	L6 RBICS sectors	Nr.	L6 RBICS sectors
1	Alt. Energy Autonomous Heavy Duty Truck Makers	71	Latin America Geothermal Wholesale Power
2	Alt. Energy Autonomous Transit Vehicle Production	72	Latin America Hydroelectric Wholesale Power
3	Alt. Energy Motor Homes and Campers (RVs) Makers	73	Latin America Mixed Alternative Wholesale Power
4	Alt. Energy Recreation Vehicle Manufacturing	74	Latin America Mixed Wholesale Power
5	Alternative Energy Boats Makers	75	Latin America Solar Wholesale Power
6	Alternative Energy Car Manufacturers	76	Latin America Wind Wholesale Power
7	Alternative Energy Heavy Duty Trucks Makers	77	Light Emitting Diode Discrete Semiconductors
8	Alternative Energy Infrastructure Construction	78	Lithium Compounds Manufacturing
9	Alternative Energy Motorcycles Makers	79	Middle East and Africa Biomass Wholesale Power
10	Alternative Energy Transit Vehicles Makers	80	Middle East and Africa Decentralized Wholesale Power
11	Asia/Pacific Electric Power Utilities	81	Middle East and Africa Geothermal Wholesale Power
12	Battery Charging Equipment Manufacturing	82	Middle East and Africa Hydroelectric Wholesale Power
13	Biodiesel Fuel Manufacturing	83	Middle East and Africa Mixed Alt. Wholesale Power
14	Canada Biomass Wholesale Power	84	Middle East and Africa Mixed Wholesale Power
15	Canada Decentralized Wholesale Power	85	Middle East and Africa Solar Wholesale Power
16	Canada Geothermal Wholesale Power	86	Middle East and Africa Wind Wholesale Power
17	Canada Hydroelectric Wholesale Power	87	Mixed Heavy-Duty and High-End Batteries Makers
18	Canada Mixed Alternative Wholesale Power	88	Mixed Renewable Energy Generation Manufacturing
19	Canada Mixed Wholesale Power	89	Multinational Electric Power Utilities
20	Canada Solar Wholesale Power	90	Multinational Transmission Dist. and Storage
21	Canada Wind Wholesale Power	91	Multinational Wholesale Power
22	Carbon Capture Services and Technologies	92	National Electric Utilities
23	Carbon Transportation and Sequestration Services	93	Other Alternative Fuel Manufacturers
24	China Alternative Mixed Wholesale Power	94	Other Americas Electric Power Utilities
25	China Biomass Wholesale Power	95	Other Asia/Pacific Biomass Wholesale Power
26	China Decentralized Wholesale Power	96	Other Asia/Pacific Decentralized Wholesale Power
27	China Geothermal Wholesale Power	97	Other Asia/Pacific Geothermal Wholesale Power
28	China Hydroelectric Wholesale Power	98	Other Asia/Pacific Hydroelectric Wholesale Power
29	China Mixed Wholesale Power	99	Other Asia/Pacific Mixed Alt. Wholesale Power
30	China Solar Wholesale Power	100	Other Asia/Pacific Mixed Wholesale Power
31	China Wind Wholesale Power	101	Other Asia/Pacific Solar Wholesale Power
32	Diversified Electrical/Power System Manufacturing	102	Other Asia/Pacific Wind Wholesale Power
33	Diversified Industrial Gas Manufacturing	103	Other Discrete Semiconductors
34	Diversified Power Generation Equipment Makers	104	Other Electric Motors and Motion Control Products
35	Electric Motors Manufacturing	105	Other Environmental Control Machine Manufacturing

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

36	Electric Vehicle Charging Stations	106	Other International Energy Utilities
37	Electrical Equipment and Wiring Distributors	107	Other United States Electric Utilities
38	Electrical Systems and Equipment Manufacturing	108	Other United States Energy Utilities
39	Electricity Infrastructure Construction	109	Pan-Americas Mixed Wholesale Power
40	Emission Control Services and Technologies	110	Pan-Asia/Pacific Wholesale Power
41	Energy Efficient Lighting and LED Manufacturing	111	Photovoltaic and Solar Cells and Systems Providers
42	Energy Industry Software	112	Power Control and Mixed Signal Semiconductors
43	Energy Plant Infrastructure Construction	113	Power Generation Infrastructure Construction
44	Environmental Consulting	114	Power Generation/Support Products Manufacturing
45	Environmental Services	115	Power Module and Subassembly Electronic Components
46	Ethanol Fuel Manufacturing	116	Power Transmission and Distribution Products
47	Europe Biomass Wholesale Power	117	Process Plants Utilities and Energy Construction
48	Europe Decentralized Wholesale Power	118	Sewage and Water Infrastructure Construction
49	Europe Geothermal Wholesale Power	119	Smart Grid Technology and Smart Meter Products
50	Europe Hydroelectric Wholesale Power	120	Thermal and Chemical Processing Machinery Makers
51	Europe Middle East and Africa Electric Utilities	121	United States Biomass Wholesale Power
52	Europe Mixed Alternative Wholesale Power	122	United States Decentralized Wholesale Power
53	Europe Mixed Wholesale Power	123	United States Geothermal Wholesale Power
54	Europe Solar Wholesale Power	124	United States Hydroelectric Wholesale Power
55	Europe Wind Wholesale Power	125	United States Midwest Electric Utilities
56	Fuel Cell Equipment and Technology Providers	126	United States Mixed Alternative Wholesale Power
57	Fuse Passive Electronic Components	127	United States Northeast Electric Utilities
58	Geothermal Energy Equipment Manufacturing	128	United States Solar Wholesale Power
59	Global Energy Utilities	129	United States South Atlantic Electric Utilities
60	Greenhouse Gas Emission Services	130	United States South Electric Utilities
61	Heavy-Duty Industrial Batteries Manufacturing	131	United States Transmission Dist. and Storage
62	Hydroelectric Power Generation Equipment Providers	132	United States West Electric Utilities
63	Hydrogen Fuel Manufacturing	133	United States Wind Wholesale Power
64	Hydrogen Gas Manufacturing	134	US Mixed Wholesale Power
65	Infrastructure Consulting and Design Services	135	US West South Central Electric Utilities
66	Insulation Manufacturing	136	Utilities Industry Software
67	International Electricity Generator Utilities	137	Utility Infrastructure Construction
68	Latin America Biomass Wholesale Power	138	Waste-to-Energy Services
69	Latin America Decentralized Wholesale Power	139	Wave Energy Equipment Manufacturing
70	Latin America Electric Power Utilities	140	Wind Energy Equipment Manufacturing

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

Composition list: The final composition list with the 30 securities is derived by following the steps below in the order they are listed.

1) All stocks from the selection list (Y) are first sorted in ascending order in terms of their volatility (maximum between the 3-month and 12-month historical volatility in EUR) and the top Z lowest volatility stocks, rounded down to the previous integer, are selected for the next step of the selection process, such that: $\mathrm{Z} = \text{round down to previous integer}(\mathrm{Y} * 50\%)$. In case two companies for a given cutoff date have the same volatility, priority is given to the one with the highest dividend yield (historical gross dividend yield).

2) Subsequently, the remaining companies (Z), are sorted in descending order in terms of their dividend yield, and if any companies with zero dividend yield are remaining at this step, they are excluded. The 30 stocks with the highest dividend yield are selected in the index.

If the composition list cannot be completed with 30 stocks under the above constraints, then the number of stocks selected at step 1 (companies with lowest volatility, Z) is incremented by 1 ($\mathrm{Z} = \mathrm{Z} + 1$), and step 2 is repeated. Further incrementing is applied to this number if necessary, and the process is repeated until 30 stocks are selected

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date for the RBICS revenue exposure data is the last dissemination day of November for the quarterly reviews performed in December and March, and similarly, the last dissemination day of May for the reviews performed in June and September. The review cut-off date for all other underlying data is the last dissemination day of the month prior to the review month.

Weighting scheme: The indices are weighted according to free-float market capitalization considering maximum weight at 10%.

129.1.3. ONGOING MAINTENANCE

Replacements: A deleted company will not be replaced.

Fast exit: Not applicable

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

129.2. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 NR DECREMENT 5% INDEX

129.2.1. OVERVIEW

The iSTOXX Global Clean Energy Selected 30 NR Decrement 5% Index replicates the performance of the net return version of the iSTOXX Global Clean Energy Selected 30 Index assuming a constant 5% performance deduction per annum. The performance deduction accrues constantly on a daily basis. Consequently, due to the percentage of performance deduction, the iSTOXX Global Clean Energy Selected 30 NR Decrement 5% Index underperforms the iSTOXX Global Clean Energy Selected 30 Index that includes net dividend investments.

Base value and date: 1000 on 22 Dec 2014

Underlying Index: iSTOXX Global Clean Energy Selected 30 EUR Net Return Index

Decrement Amount (in Percentage points): 5

Dissemination calendar: STOXX Europe calendar

Index Type and Currencies: EUR, Price

129.2.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_{t}	index value of underlying index on day t (ISTOXX Global Clean Energy Selected 30 EUR Net Return Index)
$U_{\mathrm{t-1}}$	Underlying Single Stock Index level on day t-1 (ISTOXX Global Clean Energy Selected 30 EUR Net Return Index)
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (5%)

The index is to be reported and disseminated rounded to 2 decimal places.

129.2.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

129.3. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 NR RISK CONTROL 10% INDEX

129.3.1. OVERVIEW

The iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Index replicates the performance of a risk control overlay applied to the iSTOXX Global Clean Energy Selected 30 NR Index that targets 10% volatility.

Index types and currencies: Excess return in EUR

Base values and dates: 1000 on March 25, 2015

Dissemination calendar: STOXX Europe Calendar

129.3.2. INDEX REVIEW

The Index Level is determined by:

$$IV_t = IV_{t-1} \cdot \left[1 + w_{t-1}\left(\frac{UL_t}{UL_{t-1}} - 1\right) - w_{t-1}\left(IR_{t-1}\frac{ACT(t-1,t)}{360}\right)\right]$$

Where:

IV_t = Excess Return Index level on index level determination date t
IV_{t-1} = Excess Return Index level on index level determination date t-1 (unrounded value used)
w_{t-1} = Weight allocation to underlying index effective on day t-1
UL_t = Index value of underlying index on day t
UL_{t-1} = Index value of underlying index on day t-1
IR_{t-1} = €STR rate on index level determination date t-1[174]
Act(t-1,t) = Number of calendar days between calculation day t-1 and calculation day t

The index is to be reported and disseminated rounded to 2 decimal places.

129.3.3. DETERMINATION OF THE TARGET WEIGHT

On any Index Level Dissemination Date t, the Target Weight shall be determined as follows:

$$Tgtw_t = \frac{TgtVol}{MaxRealizedVol_{t,(21,63)}}$$

Where $MaxRealizedVol_{t,(21,63)}$ is the maximum of realized volatilities measured over 21 and 63 days.

[174] The index will be calculated using €STR that is published on day T in respect of day T-1, meaning $€STR_{t-2}$ is used in the above formula.

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

$$RealizedVol_{t,n} = \sqrt{\frac{252}{(n-4)\times 5} \cdot \sum_{i=0}^{n-5-1} \left[ln\left(\frac{UL_{t-i}}{UL_{t-i-5}}\right)\right]^2}$$

With $n = 21, 63$.

129.3.4. DETERMINATION OF THE EQUITY WEIGHT AND INDEX REBALANCING DAYS

The index is rebalanced daily and the Equity Weight is calculated as follows:

$w_t = Min(Cap, Tgtw_{t-2})$

Where: Cap = 150%

129. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 INDEX

129.4. iSTOXX GLOBAL CLEAN ENERGY SELECTED 30 NR RISK CONTROL 10% DECREMENT 4.5% INDEX

129.4.1. OVERVIEW

The iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Decrement 4.5% Index replicates the performance of the iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Index assuming a constant 4.5% performance deduction per annum. The performance deduction accrues constantly on a daily basis.

Base value and date: 1000 on March 25, 2015

Underlying Index: iSTOXX Global Clean Energy Selected 30 NR Risk Control 10% Index

Decrement Amount (in Percentage points): 4.5

Dissemination calendar: STOXX Europe calendar

Index Type and Currencies: EUR, Price

129.4.2. INDEX FORMULA

The Index values are calculated as follows:

$$\mathrm{IV_t} = \mathrm{IV_{t-1}} \times \left(\frac{\mathrm{U_t}}{\mathrm{U_{t-1}}} - \mathrm{C}\frac{\mathrm{ACT(t-1,t)}}{365}\right)$$

Where,

$\mathrm{IV_t}$	Index value on day t
$\mathrm{IV_{t-1}}$	Index value on day t-1 (Unrounded value used)
U_t	index value of underlying index on day t (iSTOXX Global Clean Energy Selected 30 NR Risk Control 10%)
U_{t-1}	Underlying Single Stock Index level on day t-1 (iSTOXX Global Clean Energy Selected 30 NR Risk Control 10%))
$ACT(t-1,t)$	number of actual calendar day between t-1 and t (usually 1, after weekends 3)
C	decrement amount in percentage (4.5%)

The index is to be reported and disseminated rounded to 2 decimal places.

129.4.3. ONGOING MAINTENANCE

All index changes and adjustments of the Underlying Index are reflected in the Decrement Index.

130. iSTOXX APG DEVELOPED REAL ESTATE-X AND RESPONSIBLE INDICES

130.1. iSTOXX APG DEVELOPED REAL ESTATE -X AND RESPONSIBLE INDICES

130.1.1. OVERVIEW

The iSTOXX APG Developed Real Estate -X and Responsible Indices start from a broad free float market cap weighted index (iSTOXX APG Developed Real Estate Index) and exclude companies based on various criteria such as APG Product Exclusion Flag, APG Real Estate ESG-Leader Flag, APG Real Estate Sound Governance Flag etc. Those indices incorporate these exclusions while seeking to maintain a similar profile to its parent index. The weighting of each constituent security is determined through an optimization process that is designed to minimize predicted tracking error to the parent index while controlling for subsector / country/ style factor active exposures, turnover, liquidity, absolute and relative issuer weights.

Indices: The iSTOXX APG Developed Real Estate –X and Responsible Index Range is comprised of three separate indices, herein referred to as:

1. iSTOXX APG Developed Real Estate -X Index
2. iSTOXX APG Developed Real Estate RI Index
3. iSTOXX APG Developed Real Estate CRREM-Aligned RI Index

Universe: iSTOXX APG Developed Real Estate Index constituents

Parent Index: iSTOXX APG Developed Real Estate Index

Weighting scheme: The constituents in each index are set to minimize the predicted tracking error of the index to the Parent Index subject to a set of constraints.

Base values and dates: 100 and 21 Jun 2021

Index types and currencies: Price, net and gross in USD and EUR

Dissemination Calendar: STOXX Global calendar

For a complete list please consult the data vendor code sheet on the website[175]. Customized solutions can be provided upon request.

130.1.2. INDEX REVIEW

Constituent selection: The portfolio construction is performed using Axioma's portfolio optimization software.

[175] http://www.STOXX.com/download/indices/vendor_codes.xls

130. iSTOXX APG DEVELOPED REAL ESTATE-X AND RESPONSIBLE INDICES

The objective of the optimization problem is to minimize predicted tracking error to the parent index.

Minimize: $(w-b)^T Q\ (w-b)$

where

b = Parent Index weights

w = Index weights

Q = covariance matrix from the Axioma Risk Model

The following constraints are enforced in order to apply screens, ensure liquidity and tradability, control for unintended systematic exposures etc. Short descriptions of the data elements given are below:

APG Product Exclusion Flag: a data attribute designed to identify companies for their involvement in production. sale or distribution of controversial weapons (nuclear weapons, cluster munitions, anti-personnel mines, chemical or biological weapons) and production of tobacco products.

APG Real Estate ESG-Leader Flag: a data attribute designed to identify companies that are considered to be adequately managing ESG risks. Under this policy, companies are systematically assessed based on their conduct in relation to the management of ESG-related risks inherent in companies' industries and markets. The assessment contains both normative and relative components and focuses on companies' preparedness and behavior regarding business ethics, human rights, labor standards and the environment. This flag is designed to identify companies that do not meet selected conduct and behavior standards on Environment and Social issues, as well as companies that fail to deliver sufficient data or have low data transparency, such as building location and carbon emission intensity.

AGP Real Estate Sound Governance Flag: a data attribute to identify companies with high business integrity and sound governance, where the investee companies to follow good governance practices, in particular with respect to sound management structures, employee relations, remuneration of staff and tax compliance.

APG Real Estate Solid Reputation Flag: a data attribute to identify companies that are facing substantial reputational risks, such as severe open incidents.

APG Real Estate No Harm Flag: a data attribute to identify material negative impact of the investments on Environmental and Social issues. The set of indicators used include Principal Adverse Impact (PAI) required by SFDR.

APG Real Estate CRREM-aligned Flag: a data attribute that measures transition risk by assessing the relative Greenhouse Gas (GHG) emission intensity level (kg CO2 per sqm) as compared to the CRREM (Carbon Risk Real Estate Monitor) pathways.

130. iSTOXX APG DEVELOPED REAL ESTATE-X AND RESPONSIBLE INDICES

Axioma Risk Model: Axioma World Wide v4 Medium Horizon Fundamental Factor Risk Model with numeraire EUR.

iSTOXX APG Developed Real Estate -X Index

Target	Constraint
Product Exclusions	Do not hold names flagged by APG Product Exclusion Flag
Active ICB Subsector (Level 4) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01 std for Axioma Risk Model Style factors w/r/t Parent Index
Absolute Individual Issuer Weights	Max: 10%. Min: 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Relative Individual Issuer Weights	+/- 5% w/r/t Parent Index
Maximum Turnover	Maximum semi-annual one-way turnover: 7.5%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 5%, strength = 3 parameters

iSTOXX APG Developed Real Estate RI Index

Target	Constraint
Product exclusions	Do not hold names flagged by APG Product Exclusion Flag
Real Estate ESG Laggards exclusions	Do not hold names not flagged by APG Real threshold Estate ESG-Leader Flag
Real Estate Sound Governance exclusions	Do not hold names not flagged by AGP Real Estate Sound Governance Flag
Real Estate Solid Reputation exclusions	Do not hold names not flagged by AGP Real Estate Solid Reputation Flag
Active ICB Subsector (Level 4) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01 std for Axioma Risk Model Style factors w/r/t Parent Index

130. iSTOXX APG DEVELOPED REAL ESTATE-X AND RESPONSIBLE INDICES

Absolute Individual Issuer Weights	Max: 10%. Min: 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Relative Individual Issuer Weights	+/- 5% w/r/t Parent Index
Maximum Turnover	Maximum semi-annual one-way turnover: 7.5%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 5%, strength = 3 parameters

iSTOXX APG Developed Real Estate CRREM-Aligned RI

Target	**Constraint**
Product exclusions	Do not hold names flagged by APG Product Exclusion Flag
Real Estate ESG Laggards exclusions	Do not hold names not flagged by APG Real Estate ESG-Leader Flag
Real Estate Sound Governance exclusions	Do not hold names not flagged by AGP Real Estate Sound Governance Flag
Real Estate Solid Reputation exclusions	Do not hold names not flagged by AGP Real Estate Solid Reputation Flag
Real Estate No Harm exclusions	Do not hold names not flagged by AGP Real Estate No Harm Flag
Real Estate CRREM-aligned exclusions	Do not hold names flagged by AGP Real Estate CRREM-aligned Flag
Active ICB Subsector (Level 4) weights	+/-5% w/r/t Parent Index
Active Country weights	+/-5% w/r/t Parent Index
Active Style Exposures	+/-0.01 std for Axioma Risk Model Style factors w/r/t Parent Index
Absolute Individual Issuer Weights	Max: 10%. Min: 2.5 bps. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.
Relative Individual Issuer Weights	+/- 5% w/r/t Parent Index
Maximum Turnover	Maximum semi-annual one-way turnover: 7.5%
Percentile days to trade /liquidity constraint	Maximum bound using Percentile = 5%, strength = 3 parameters

130. iSTOXX APG DEVELOPED REAL ESTATE-X AND RESPONSIBLE INDICES

Active ICB Subsector (Level 4) Weights: The exposure to each ICB Subsector (Level 4) is summed up for the Index, and the percentage exposure of the index must be within 5% of the Parent Index values.

Active Country Weights: The exposure to each country is summed up for the Index, and the percentage exposure of the index must be within 5% of Parent Index values.

Active Style Exposures: The exposure to each of the Axioma Risk Model style factors should be within 0.01 standard deviations of the Parent Index's factor exposures.

Absolute Individual Issuer Weights: The maximum and minimum (non-zero) weights of each issuer in the index are 10% and 2.5 bp respectively. For issuers with multiple share lines present in the Parent Index, a minimum non-zero weight of 0.5 bp is applied to each of those share lines.

Relative Individual Issuer Weights: The total weight of each issuer must be within 5% of Parent Index values.

Maximum Turnover: The index has a one-way turnover limit of 7.5% for each semi-annual rebalance.

Percentile Days to Trade / Liquidity Constraint: The maximum weight of each component in the index is limited to 3 times its 60-day median daily trading volume multiplied by the ratio of the benchmark weight and 60-day median daily trading volume of the representative stock p. The representative asset is the 5th percentile of all constituents in the Parent Index when sorted by the ratio of 60-day median trading volume divided by the Parent Index weight.

$$w_k \leq S\, V_k\, b_p / V_p$$

where:

w_k = the weight of the k-th stock in the portfolio

p = the asset with the 5-th percentile of V_k / b_k

b_k = the weight of the k-th stock in the benchmark

V_p = the 60-day median daily trading volume for the k-th stock

S = 3 (Strength)

In case all the APG data flags used in the index result in no companies excluded, the optimization will replicate the Parent Index constituents and weights.

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found. the following constraints are relaxed iteratively. as necessary: 1) Active Style Exposures 2) Active ICB Subsector (Level 4) Weights and Active Country Weight 3) Maximum Turnover.

Review frequency: The reviews are conducted on a semi-annual basis in June and December. The implementation is conducted after the close of third Friday in the review months and effective the next trading day. The weighting factors are calculated based on closing prices in EUR from the Wednesday before the second Friday of the review months. Weighting factor = (stock's target weight × 1,000,000,000 / closing price of the stock in EUR). rounded to the nearest integer.

The cut-off date for APG data is the 5th weekday before the end of the months preceding the review months. The review cut-off date for Parent Index and Axioma data is the Wednesday before the second Friday of the review months.

In the event of no delivery of APG data by the first weekday of the review months, prior data will be used for the index review. The underlying announcements are published on the second Friday of the review months.

Missing Data Treatment: Securities that are missing all the APG data elements will not be eligible for selection during index reviews.

130.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Index constituents flagged by the APG Product Exclusion Flag on the final dissemination days of February and August will be removed from the index. The deletions will be announced on the next dissemination day, i.e. 1st day of March/September and will take place two dissemination days after the announcement, i.e. at the open of the 4th dissemination day. The constituent weight will be distributed among the remaining constituents.

In the event of late delivery for the APG Product Exclusion Flag, the deletions will be announced one dissemination day after the delivery date and will take place two dissemination days after the announcement.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com