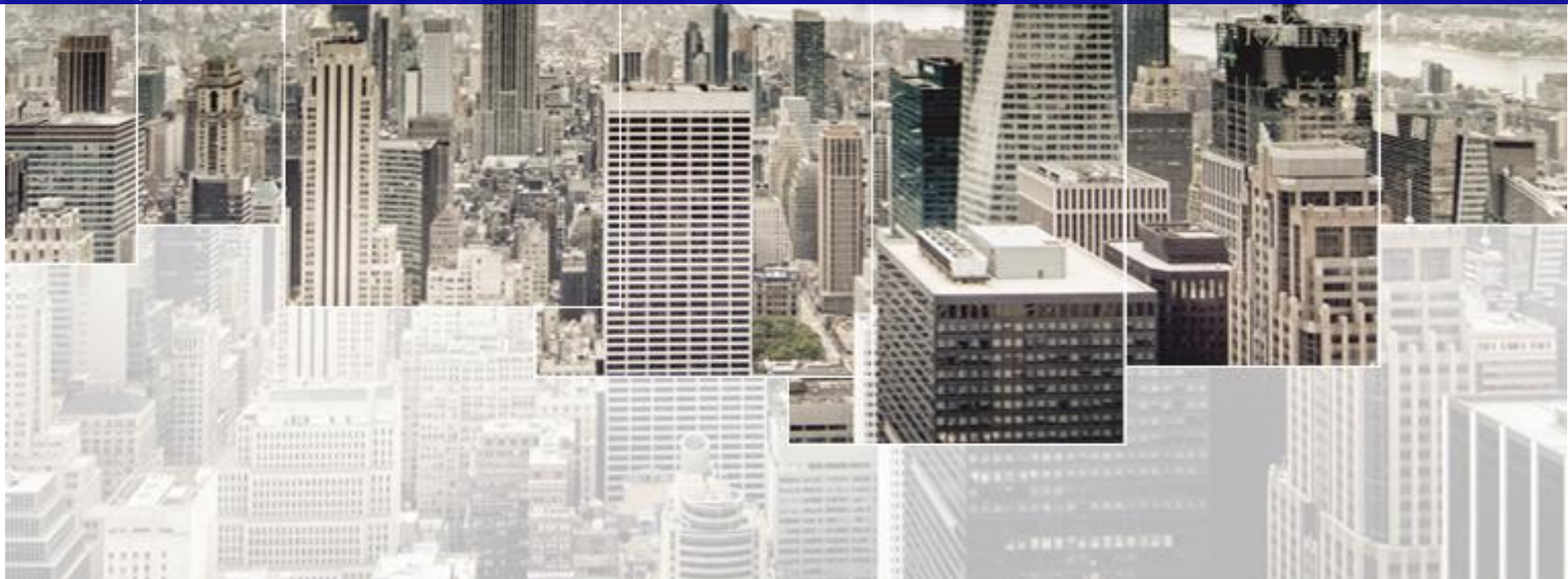


STOXX

 **DEUTSCHE BÖRSE
GROUP**

STOXX ESG Indices / Underlying Eurex Futures Overview

February 2019



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Appendix



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Introduction

Deutsche Börse Sustainability

Accelerating Sustainable Finance

Deutsche Börse Sustainability

- Deutsche Börse Group launched the Accelerating Sustainable Finance Initiative in May 2017.
- The initial objective of the original 23 signatories of the “Frankfurt Declaration” was to define a framework for a sustainable financial sector and launch specific initiatives in the financial center of Frankfurt.

Eurex & STOXX

- In 2018 two Deutsche Börse Group entities (Eurex and STOXX) reached out jointly to market participants in order to assess demand for listed **ESG Derivatives**.
- Based on the positive feedback from market participants Eurex Board decided to launch their first ESG Derivatives on **Feb. 18, 2019**.

Eurex Futures based on ESG indices derived on Europe’s key benchmarks provide new tools to the ESG market with the ambition to **increase liquidity** and **lower the cost of trading**

Feedback market participants

Strong demand for ESG Derivatives on STOXX benchmarks

General feedback

- Strong demand for ESG versions of STOXX benchmarks
- Focus on liquidity and lower the cost of trading ESG indices
- Keep it simple
- Similar risk-return profile as STOXX benchmarks
- Tier-1 ESG data provider (like Sustainalytics, CDP)
- Aligned with upcoming EU Commission regulation
- Easy to implement

Market participants Europe



Product specific feedback

- Asset managers are looking for “ESG compliant” version of STOXX Europe 600 with “standardized” set of exclusions (UN Global compact, controversial weapons, tobacco, coal)
- Insurance companies showed strong interest in low carbon version of EURO STOXX 50
- Positive feedback on STOXX Europe 600 aligned with “positive carbon impact benchmark” definition EU commission

Based on the strong demand Eurex has announced¹⁾ that the first ESG Derivatives with underlyings linked to ESG versions of STOXX European flagship indices will be launched on **Feb. 18, 2019**.

1) <https://www.eurexchange.com/exchange-en/resources/circulars/Equity-index-derivatives--Introduction-of-futures-on-STOXX--ESG-X--Low-Carbon-and-Climate-Impact-indexes/3569322>

First Eurex ESG Derivatives

Different ESG versions of STOXX European flagship indices

STOXX Europe 600 ESG-X

- Based on exclusion criteria of responsible policy of leading asset owners
- Norm-based screening (Global Compact) including Human and Labour rights, Environment and Business Ethics and Corruption
- Product Involvement screening, including controversial weapons, tobacco and thermal coal
- Aimed to reduce market risk and reputational risks
- Similar risk-return profile as STOXX Europe 600

EURO STOXX 50 Low Carbon

- New tool to address climate risks
- Lowering carbon footprint of EURO STOXX 50 with approx. 50%
- Transparent weighting scheme lowering the carbon footprint by applying carbon intensity Z-scores, no exclusions
- Aligned with “Low Carbon Benchmark” definition (article 23a) provided in proposal of EU Commission amending regulation 2016/1011
- Similar risk-return profile as EURO STOXX 50

STOXX Europe Climate Impact

- Next generation of Low Carbon indices
- Evaluates companies progress towards transitioning to low carbon economy
- Integrated CDP climate scoring methodology which includes forward-looking metrics such as carbon pricing and science-based targets
- Addressing climate risks with additional ESG screens: UN Global Compact, Controversial Weapons, Tobacco and Coal

Eurex ESG Derivatives

Product suite

Index name	Curr	Index type	US allowed	Index code	Bloomberg	Eurex contract code Futures		Multiplier	Minimum Block Trade Size	Tick Size	Tick Value	Calendar Tick/Value	Contract value*
STOXX Europe ESG Indices													
EURO STOXX 50 Low Carbon	EUR	Price	planned	SXE5LCEP	SXE5LCEP	FSLC	up to 9 months	100	50	0.1	10	n.a.	14,600
STOXX Europe Climate Impact Ex Global Compact Controversial Weapons & Tobacco	EUR	Price	planned	SXECITEP	SXECITEP	FSCI	up to 9 months	100	50	0.1	10	n.a.	12,000
STOXX Europe 600 ESG-X	EUR	Price	planned	SXXPESGX	SXXPESGX	FSEG	up to 9 months	100	50	0.1	10	n.a.	12,900
Related product benchmarks													
STOXX Europe 600 (Benchmark)	EUR	Price	Y	SXXP		FXXP		50	100	0.1	5	0.02/€ 1	17,750
EURO STOXX 50 (Blue-Chip)	EUR	Price	y	SX5E		FESX		10	1000	1	10		30,600

*as of Jan. 10, 2019; expected for ESG-X

Above mentioned Eurex ESG Derivatives are launched on Feb. 18, 2019



2

STOXX Europe 600
ESG-X

Exclusions

Norms-based screening and controversial weapons

Norms-based screening

Norms-based screening uses the 10 principles of UN Global Compact for responsible business and covers the following areas:

- **Human rights**
- **Labour rights**
- **Environment**
- **Business ethics and anti-corruption.**

The principles are based on conventions as UN Universal Declaration of Human Rights, International Labour Organization Declaration on Fundamental Principles and Rights at Work, Rio Declaration on Environment and Development, and the UN Convention Against Corruption

Controversial Weapons

International conventions prohibit companies' involvement in the development, production, maintenance, use, distribution, stockpiling, transport or trade of banned weapons or their key components. This includes:

- **Anti-personnel mines and cluster bombs**
- **Nuclear weapons and depleted uranium weapons**
- **Biological and chemical weapons**
- **White Phosphorous**

Exclusions

Product involvement

Product Involvement

Screening of companies that manufacture and/or sell products or services that risk harming people or the environment. These include the following:

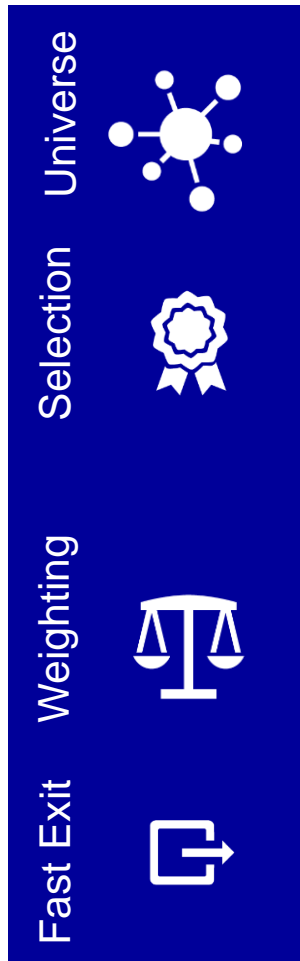
- **Tobacco Production**
- **Thermal Coal**
 - **Mining and exploration**
 - **Power Generating Capacity:**
 - Coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants)

Leading institutions world-wide started to exclude companies involved in Tobacco and/or Coal, for example:

- Pension funds/Insurances: Norwegian SWF, FRR, PGGM, APG, AP4, AP7, Allianz, MunichRe, AXA, California Public Employees Retirement, NZ Super, Calpers
- Asset Managers: BNPP AM, Robeco, Nordea, SEB, SwedbankRobur
- Retail networks: ABN AMRO

STOXX Europe 600 ESG-X

Norms-based, Controversial Weapons, Tobacco and Thermal Coal Screening



- STOXX® Europe 600
- Exclusion criteria:
 - UN Global Compact Compliance Principles
 - Involvement in Controversial Weapons
 - Anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus
 - Tobacco Producers (0% revenue threshold)
 - Thermal Coal
 - >25% revenue threshold from thermal coal mining and exploration
 - >25% power generating capacity (coal-fired electricity, heat or steam generation capacity / thermal coal electricity production)
- Free Float Market Cap
- In case a company which is an index constituent increases in its ESG-risk level to level 5 (non-compliant with Global Compact), the respective constituent will be deleted from the index.

STOXX Europe 600 ESG-X

Risk and return overview

Risk and return characteristics¹⁾²⁾

	STOXX Europe 600 ESG-X	STOXX EUROPE 600
Return (overall)	7.5%	7.3%
Return 1y	-10.5%	-10.3%
Return 3y	3.8%	4.0%
Return 5y	4.4%	4.4%
Volatility 1y	13.1%	13.0%
Volatility 3y	14.5%	14.4%
Volatility 5y	15.7%	15.7%
Sharpe Ratio (overall) 3)	0,56	0,55
Max. Drawdown (overall)	-25.05%	-24.93%
Tracking error (overall)	0.50%	
Number of Constituents	579	600

Index performance¹⁾



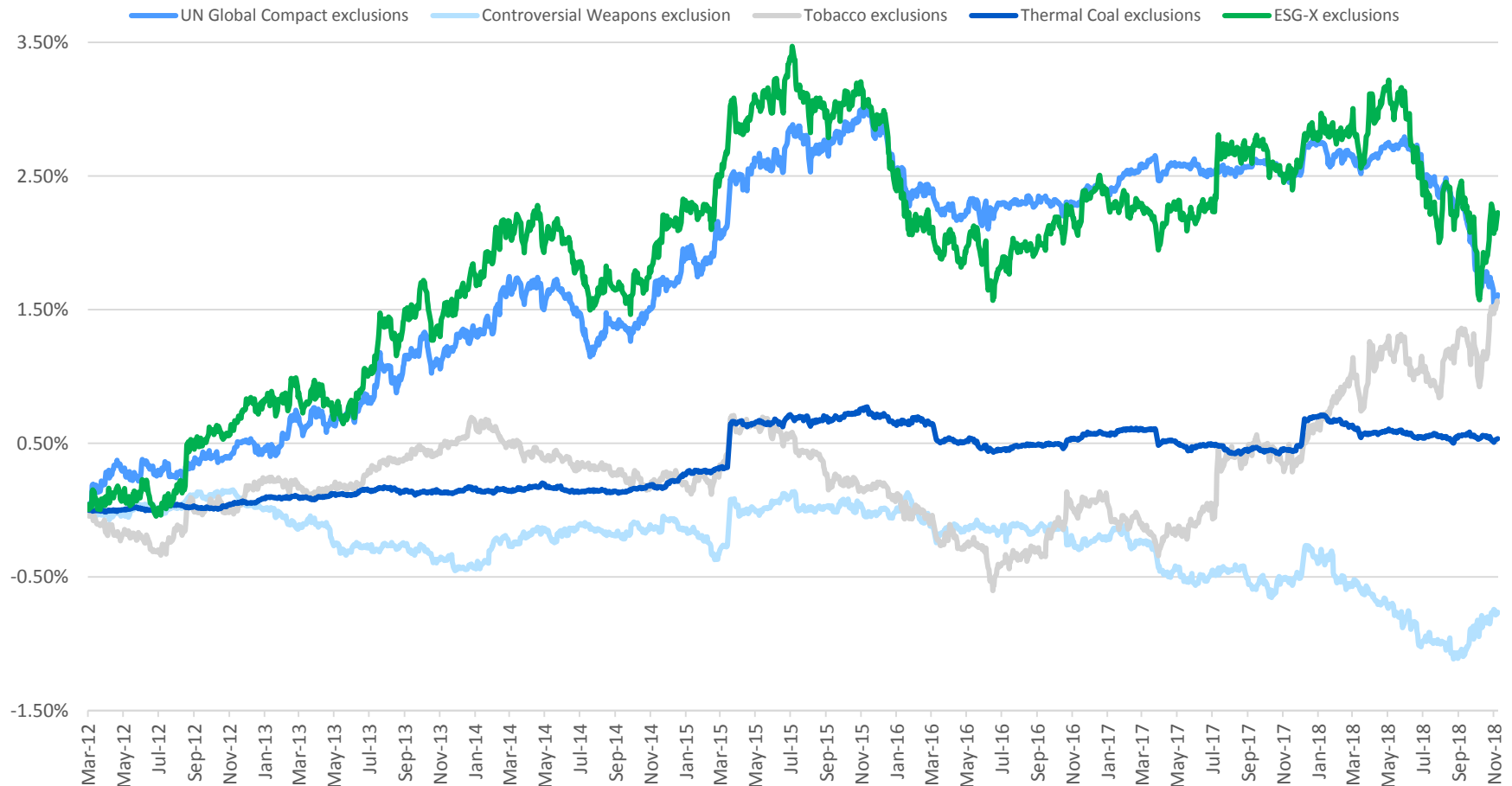
1) Source: STOXX, EUR GR daily data, Mar. 19, 2012 to Jan. 08, 2019.

2) Annualised: returns, volatility, Sharpe ratio and tracking error figures used. Relative figures calculated against STOXX EUROPE 600 Index. Overall: Mar. 19, 2012 to Jan. 08, 2019; 1y: Jan. 08, 2018 to Jan. 08, 2019; 3y: Jan. 08, 2016 to Jan. 08, 2019; 5y: Jan. 08, 2014 to Jan. 08, 2019.

3) EONIA rate used as proxy for riskless returns.

STOXX Europe 600 ESG-X

Cumulative impact of exclusions on total returns



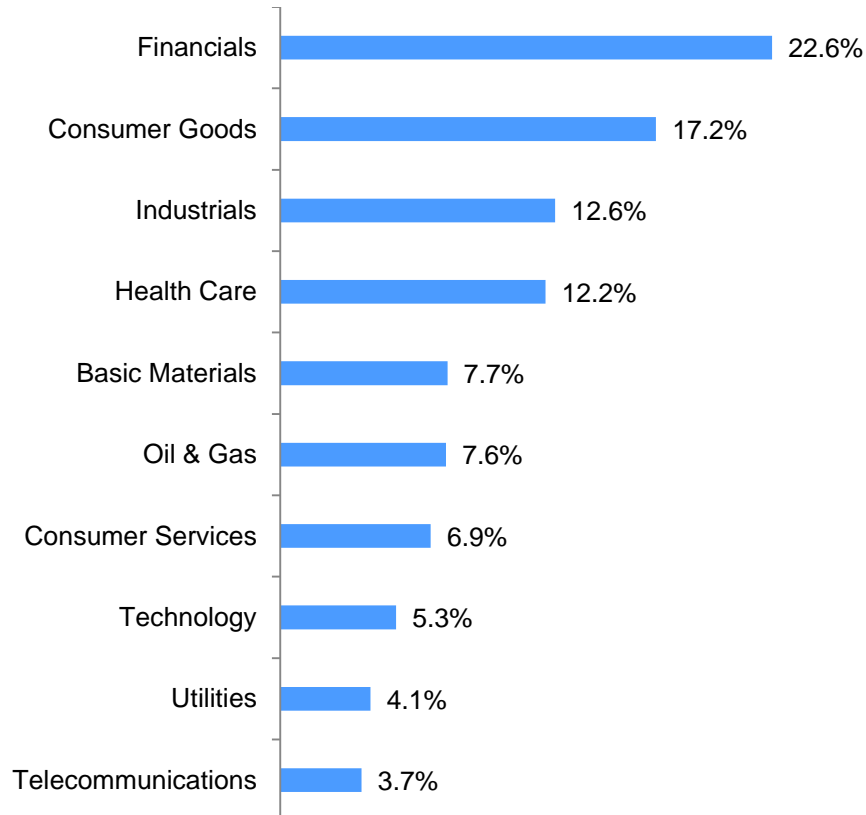
1) Source: STOXX. Data as of data as of Nov. 27, 2018.

2) Please refer to the research paper: [STOXX® Europe 600 ESG-X Index - Analyzing ESG Exclusions](#)

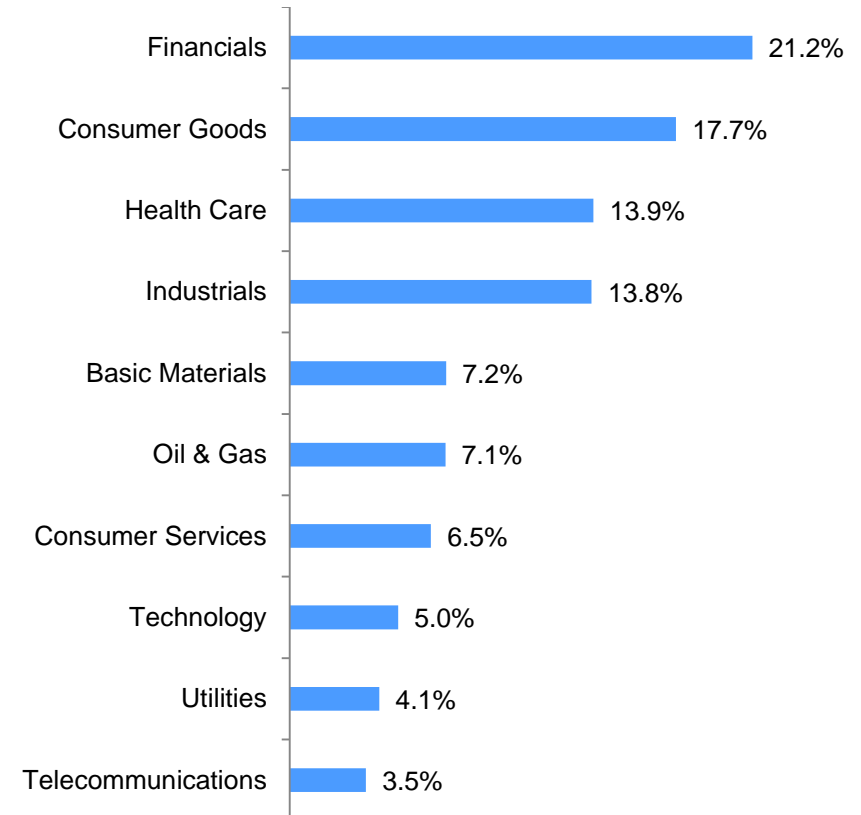
STOXX Europe 600 ESG-X vs STOXX Europe 600

Industry allocation¹⁾

STOXX Europe 600 ESG-X



STOXX EUROPE 600



1) Source: STOXX Data as of Jan. 08, 2019.

STOXX Europe 600 ESG-X

Index details

Ticker	ISIN	Type	Currency	Bloomberg	Reuters
SXXPESGX	CH0445431064	Price	EUR	SXXPESGX INDEX	.SXXPESGX
SXXRESGX	CH0445431056	Net Return	EUR	SXXRESGX INDEX	.SXXRESGX
SXXWESGX	CH0445431072	Gross Return	EUR	SXXWESGX INDEX	.SXXWESGX
SXXLESGX	CH0445431023	Price	USD		.SXXLESGX
SXXVESGX	CH0445431031	Net Return	USD		.SXXVESGX
SXXZESGX	CH0445431049	Gross Return	USD		.SXXZESGX

The STOXX Europe 600 ESG-X index was launched on Nov. 14, 2018, with base value of 100 on Mar. 19, 2012.

Decrement indices based on STOXX Europe 600 ESG-X Index

Decrement Index	Ticker	ISIN	Currency	Bloomberg	Reuters
iSTOXX Europe 600 ESG-X GR Decrement 5% Index	ISXESGD5	CH0454923084	EUR	ISXESGD5 INDEX	.ISXESGD5
iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index	ISXESGD4	CH0454923092	EUR	ISXESGD4 INDEX	.ISXESGD4

The iSTOXX Europe 600 ESG-X NR Decrement 4.75% Index is based on the Net Return version of the STOXX Europe 600 ESG-X Index, where as the iSTOXX Europe 600 ESG-X GR Decrement 5% is based on the Gross Return version of the STOXX Europe 600 ESG-X index.

STOXX Europe 600 ESG-X Index Future

Contract details

	STOXX® Europe 600 ESG-X Index Futures (FSEG)	STOXX® Europe 600 Futures (FXXP)
Underlying index	STOXX Europe 600 ESG-X Index (SXXPESGX)	STOXX® Europe 600 Index (SXXP)
Index type	Price index	
Contract value	100 EUR per index point	50 EUR per index point
Tick value	10 EUR	5 EUR; 1 EUR for calendar spread
Price quotation	In points with one decimal place	In points with two decimal places
Minimum price change	0.1 index point	0.1 index point; 0.02 for calendar spread
Contract months	Up to 9 months; 3 quarterly months	
Settlement	Cash settlement, payable on the first exchange day following the Final Settlement Day	
Final settlement price	Based on the average of the respective STOXX index calculations from 11:50-12:00 noon CET	
Expiration day and Final settlement day	3rd Friday of each expiration month if this is an exchange day; otherwise the exchange day immediately preceding that day. Close of trading in the maturing futures on the Last Trading Day is at 12:00 CET	
Continuous / TES	08:00 – 22:00 CET	
Flexible contracts	Available	
Min block trade size	50 contracts	100 contracts



3

EURO STOXX 50
Low Carbon

Low Carbon investment: not a trend, rather a long-term commitment from both companies and investors

Over 700 companies joined the **We Mean Business** coalition¹⁾

Commitments against climate change

Investors can take action by making one or more of these commitments

- Sign the Montréal Pledge for carbon transparency in investment portfolios
- Join the Portfolio Decarbonization Coalition
- Invest in low carbon assets
- Report climate change information in mainstream reports as a fiduciary duty

Implications

Investors making this commitment are expected to have invested or have made a new commitment in Low Carbon assets defined by LCI registry, e.g. investments in:

- Agriculture & Forestry
- Buildings, e.g. energy efficiency improvements
- Energy e.g. solar, wind hydro
- Fixed income e.g. green bonds
- Information technology e.g. smart grids
- Low carbon funds e.g. public or private funds investing > 50% in low carbon assets

Engaging with companies

Encourage companies to commit to 1 or more of these initiatives:

- Adopt a science-based emissions reduction budget
- Put a price on carbon
- Procure 100% of electricity from renewable sources
- Responsible corporate engagement in climate policy
- Report climate change information in mainstream reports as a fiduciary duty
- Remove commodity-driven deforestation from supply chains by 2020
- Reduce short-lived climate pollutant emissions

1,203 Commitments
to bold action















731 Companies
leading the way

\$16.7 Trillion
market cap

1) Illustration and data: wemeanbusinesscoalition.org/ as of May 2018

STOXX offers a comprehensive set of low carbon indices

Overview

Description	Covered regions
<p>Low Carbon indices</p> <ul style="list-style-type: none"> Same constituents as benchmark and blue chip indices at the annual review in December. Tracks risk-return profile of the benchmarks, with reduced carbon footprint and tracking error. Uses both reported and estimated data¹⁾ 	<ul style="list-style-type: none">  Global, Global ex USA, ex Japan, ex Australia, ex Europe  Europe and Eurozone  Japan  USA
<p>Reported Low Carbon indices</p> <ul style="list-style-type: none"> Recognizes companies that report carbon emissions publicly Only stocks with reported data are eligible 	<ul style="list-style-type: none">  Global  Europe & Eurozone  USA
<p>Industry Leaders Low Carbon Indices</p> <ul style="list-style-type: none"> Select companies with lowest carbon intensities from each of the 10 ICB Industries, creating diversification and avoiding concentration in certain sectors Uses both reported and estimated data¹⁾ 	<ul style="list-style-type: none">  Global  Europe  USA  Japan
<p>Low Carbon Footprint Indices</p> <ul style="list-style-type: none"> Exclude 7 highest carbon emission supersectors and 10% of remaining highest emitters Lowest carbon footprint indices Uses both reported and estimated data¹⁾ 	<ul style="list-style-type: none">  Global  Europe
<p>STOXX Global Climate Change Leaders Index</p> <ul style="list-style-type: none"> First global index based on CDP A-list with forward looking carbon leaders who are publicly committed to reducing carbon emissions Uses stocks with reported and Scope 3 data²⁾ 	<ul style="list-style-type: none">  Global

1) Carbon Intensity: ((Scope 1 + Scope 2 Greenhouse Gas Emissions (GHG)) / Revenue (\$1 million))

2) Description of emission data, see slide 6

Trusted and reliable data sources

Data partners



- CDP holds the largest collection globally of self reported climate change, water and forest-risk data
- Ranked # 1 by investors in climate change research



Climate Solutions

- ISS Ethix Climate Solutions specializes in carbon emission research and cooperates with CDP to provide robust estimated data

Emission data used for STOXX Low Carbon indices ¹⁾

- Scope 1 Direct GHG emissions are emissions from sources that are owned or controlled by the company
- Scope 2 Indirect GHG emissions from the generation of purchased electricity by the company

Emission data divided into

- Reported data = data voluntarily provided by companies to CDP
- Estimated data = carbon emissions are estimated by ISS Ethix

Recognized and regarded data providers with high quality carbon intensity data

1) Source: <http://www.co2benchmark.com/wri-ghg-protocol-scope-definitions>

EURO STOXX 50 Low Carbon Index

Investment Case

Description

Low Carbon indices

- Same constituents as the benchmarks at the annual review in December
- Carbon-tilt overweights low emitters and underweights high emitters
- Reduces carbon footprint **without** applying exclusions
- No adverse effects from weight optimization
- Low tracking error with similar risk-return profile compared to the benchmark
- Uses both reported and estimated carbon intensity data¹⁾

Universe



- EURO STOXX 50 constituents as of December each year²⁾

Selection



- Select all stocks with Reported and Estimated Carbon Intensity¹⁾ data
- Calculate a Z-Score

Weighting



- Price weighted: free-float market cap multiplied by the corresponding Z-score carbon intensity factor of each constituent. Overweight stocks with lower carbon intensities, underweight those with higher emissions
- Component capping of 5%

1. Carbon Intensity: ((Scope 1 + Scope 2 Greenhouse Gas Emissions (GHG)) / Revenue (\$1 million))

2. Please refer to [STOXX Index Methodology Guide](#) for details on index selection, review, and other details.

EURO STOXX 50 Low Carbon

Risk and return overview

Risk and return characteristics¹⁾²⁾

	EURO STOXX 50 Low Carbon	EURO STOXX 50
Return (overall)	9.6%	8.9%
Return 1y	-13.7%	-12.7%
Return 3y	3.8%	4.0%
Return 5y	3.4%	3.3%
Volatility 1y	14.2%	14.0%
Volatility 3y	16.4%	16.1%
Volatility 5y	18.3%	18.1%
Sharpe Ratio (overall) ³⁾	0.59	0.56
Max. Drawdown (overall)	-27.72%	-27.82%
Tracking error (overall)	0.96%	
Number of Constituents	50	50

Index performance¹⁾



The EURO STOXX 50 Low Carbon index has a 63.8% lower carbon footprint than the EURO STOXX 50 index.

1) Source: STOXX, EUR GR daily data, Dec. 19, 2011 to Jan. 08, 2019.

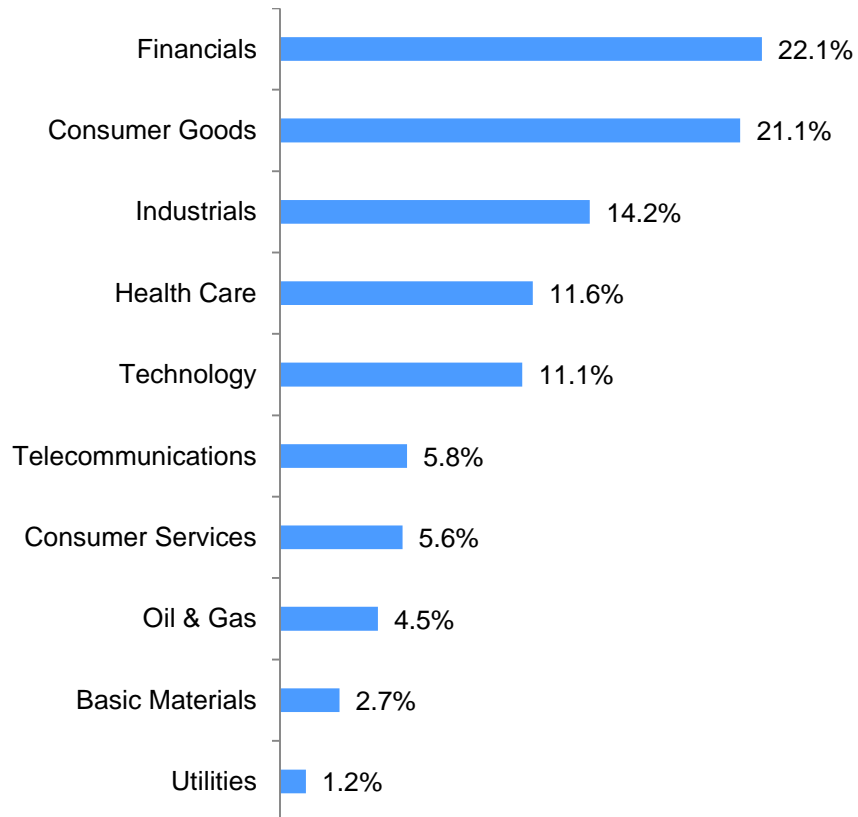
2) Annualised: returns, volatility, Sharpe ratio and tracking error figures used. Relative figures calculated against EURO STOXX 50 Index.
Overall: Dec. 19, 2011 to Jan. 08, 2019; 1y: Jan. 08, 2018 to Jan. 08, 2019; 3y: Jan. 08, 2016 to Jan. 08, 2019; 5y: Jan. 08, 2014 to Jan. 08, 2019.

3) EONIA rate used as proxy for riskless returns.

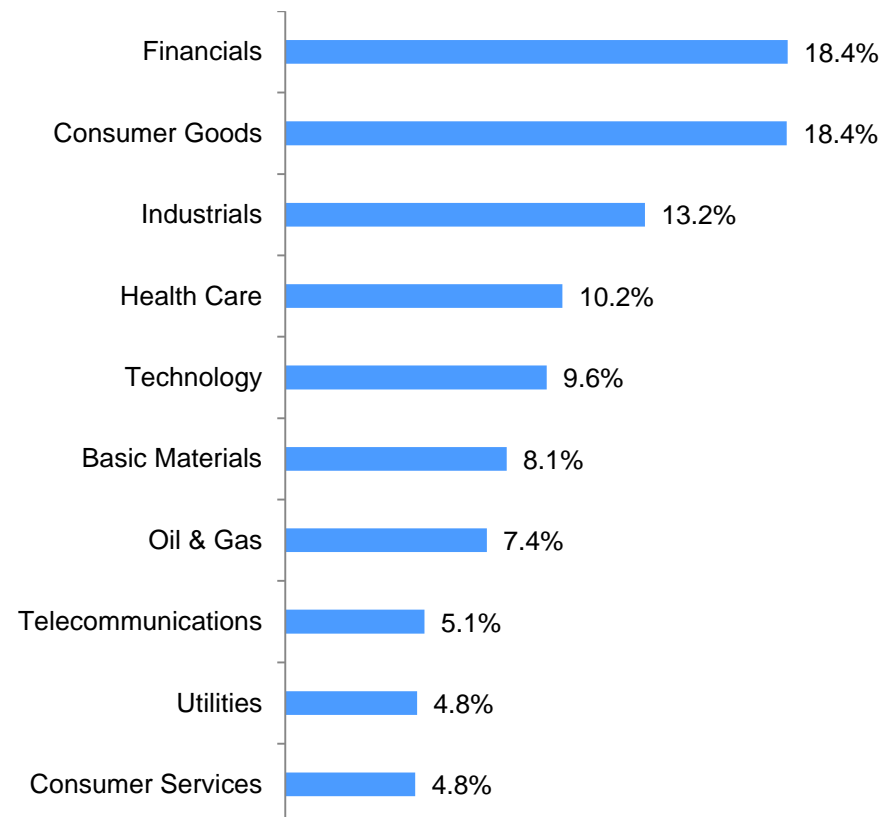
EURO STOXX 50 Low Carbon vs EURO STOXX 50

Industry allocation¹⁾

EURO STOXX 50 Low Carbon



EURO STOXX 50



1) Source: STOXX Data as of Jan. 08, 2019.

EURO STOXX 50 Low Carbon Index – Components (I)

Comparison against the EURO STOXX 50

Name	ISIN	Weight in EURO STOXX 50 Low Carbon	Weight in EURO STOXX 50	Weight
SAP	DE0007164600	4.9%	4.3%	Overweight
SANOFI	FR0000120578	4.5%	3.8%	Overweight
SIEMENS	DE0007236101	4.4%	3.8%	Overweight
ALLIANZ	DE0008404005	4.1%	3.4%	Overweight
TOTAL	FR0000120271	3.8%	5.8%	Underweight
LVMH MOET HENNESSY	FR0000121014	3.7%	3.1%	Overweight
BCO SANTANDER	ES0113900J37	3.7%	3.1%	Overweight
UNILEVER NV	NL0000009355	3.7%	3.2%	Overweight
ASML HLDG	NL0010273215	3.1%	2.7%	Overweight
BAYER	DE000BAY0017	3.1%	2.8%	Overweight
AIRBUS	NL0000235190	2.7%	2.3%	Overweight
L'OREAL	FR0000120321	2.6%	2.2%	Overweight
BNP PARIBAS	FR0000131104	2.6%	2.1%	Overweight
DEUTSCHE TELEKOM	DE0005557508	2.5%	2.2%	Overweight
ANHEUSER-BUSCH INBEV	BE0974293251	2.3%	2.4%	Underweight
DAIMLER	DE0007100000	2.3%	1.9%	Overweight
AXA	FR0000120628	2.2%	1.8%	Overweight

EURO STOXX 50 Low Carbon Index – Components (II)

Comparison against the EURO STOXX 50

Name	ISIN	Weight in EURO STOXX 50 Low Carbon	Weight in EURO STOXX 50	Weight
ING GRP	NL0011821202	2.1%	1.8%	Overweight
VINCI	FR0000125486	2.0%	1.9%	Overweight
SAFRAN	FR0000073272	2.0%	1.8%	Overweight
DANONE	FR0000120644	2.0%	1.8%	Overweight
ADIDAS	DE000A1EWWW0	1.9%	1.5%	Overweight
TELEFONICA	ES0178430E18	1.9%	1.6%	Overweight
INTESA SANPAOLO	IT0000072618	1.8%	1.5%	Overweight
BCO BILBAO VIZCAYA ARGENTARIA	ES0113211835	1.8%	1.5%	Overweight
SCHNEIDER ELECTRIC	FR0000121972	1.7%	1.5%	Overweight
Kering	FR0000121485	1.7%	1.4%	Overweight
BASF	DE000BASF111	1.6%	2.6%	Underweight
ESSILORLUXOTTICA	FR0000121667	1.6%	1.5%	Overweight
NOKIA	FI0009000681	1.6%	1.3%	Overweight
PHILIPS	NL0000009538	1.6%	1.3%	Overweight
MUENCHENER RUECK	DE0008430026	1.5%	1.3%	Overweight
ORANGE	FR0000133308	1.5%	1.3%	Overweight
AMADEUS IT GROUP	ES0109067019	1.5%	1.2%	Overweight

EURO STOXX 50 Low Carbon Index – Components (III)

Comparison against the EURO STOXX 50

Name	ISIN	Weight in EURO STOXX 50 Low Carbon	Weight in EURO STOXX 50	Weight
AHOLD DELHAIZE	NL0011794037	1.4%	1.2%	Overweight
Industria de Diseno Textil SA	ES0148396007	1.4%	1.2%	Overweight
VOLKSWAGEN PREF	DE0007664039	1.3%	1.2%	Overweight
GRP SOCIETE GENERALE	FR0000130809	1.3%	1.1%	Overweight
BMW	DE0005190003	1.2%	1.1%	Overweight
VIVENDI	FR0000127771	1.2%	1.0%	Overweight
DEUTSCHE POST	DE0005552004	1.1%	1.1%	Overweight
UNIBAIL-RODAMCO-WESTFIELD	FR0013326246	1.0%	0.9%	Overweight
FRESENIUS	DE0005785604	0.9%	0.8%	Overweight
ENI	IT0003132476	0.7%	1.6%	Underweight
LINDE	IE00BZ12WP82	0.6%	3.4%	Underweight
IBERDROLA	ES0144580Y14	0.6%	1.9%	Underweight
AIR LIQUIDE	FR0000120073	0.5%	2.1%	Underweight
ENEL	IT0003128367	0.4%	1.8%	Underweight
CRH	IE0001827041	0.2%	0.9%	Underweight
ENGIE	FR0010208488	0.2%	1.1%	Underweight

EURO STOXX 50 Low Carbon Index

Index details

Ticker	ISIN	Type	Currency	Bloomberg	Reuters
SXE5LCEP	CH0305287432	Price	EUR	SXE5LCEP INDEX	.SXE5LCEP
SXE5LCEN	CH0305287499	Net Return	EUR	SXE5LCEN INDEX	.SXE5LCEN
SXE5LCEG	CH0305287531	Gross Return	EUR	SXE5LCEG INDEX	.SXE5LCEG
SXE5LCUP	CH0305287457	Price	USD		.SXE5LCUP
SXE5LCUN	CH0305287515	Net Return	USD		.SXE5LCUN
SXE5LCUG	CH0305287556	Gross Return	USD		.SXE5LCUG

The EURO STOXX 50 Low Carbon index was launched on Feb. 04, 2016, with base value of 100 on Dec. 19, 2011.

Decrement indices based on the EURO STOXX 50 Low Carbon Index

Decrement Index	Ticker	ISIN	Currency	Bloomberg	Reuters
EURO iSTOXX 50 Low Carbon Decrement 4.75% Index	ISXE50L4	CH0313264175	EUR		.ISXE50LCD4
EURO iSTOXX 50 Low Carbon Decrement 5% Index	ISXE50L5	CH0313264183	EUR	ISXE50L5 INDEX	.ISXE50LCD5

The EURO iSTOXX 50 Low Carbon Decrement 4.75% Index is based on the Net Return version of the EURO STOXX 50 Low Carbon Index, where as the EURO iSTOXX 50 Low Carbon Decrement 5% is based on the Gross Return version of the index.

EURO STOXX 50 Low Carbon Index Future

Contract details

	EURO STOXX 50 Low Carbon Index Futures (FSLC)	EURO STOXX® 50 Futures (FESX)
Underlying index	EURO STOXX 50 Low Carbon (SXE5LCEP)	EURO STOXX® 50 Index (SX5E)
Index type	Price index	
Contract value	100 EUR per index points	10 EUR per index point
Tick value	10 EUR	10 EUR
Price quotation	In points with one decimal place	In points without decimal place
Minimum price change	0.1 index point	1 index point
Contract months	Up to 9 months; 3 quarterly months	
Settlement	Cash settlement, payable on the first exchange day following the Final Settlement Day	
Final settlement price	Based on the average of the respective STOXX index calculations from 11:50-12:00 noon CET	
Expiration day and Final settlement day	3rd Friday of each expiration month if this is an exchange day; otherwise the exchange day immediately preceding that day. Close of trading in the maturing futures on the Last Trading Day is at 12:00 CET	
Continuous / TES	08:00 – 22:00 CET	
Flexible contracts	Available	
Min block trade size	50 contracts	1,000 contracts



4

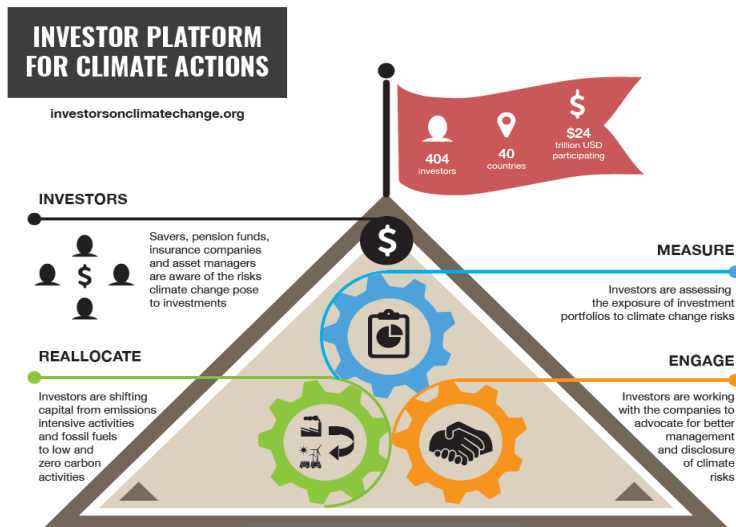
STOXX Europe Climate Impact

Climate Change is not a trend, but a long-term commitment by governments, financial sector and investors globally

Investors worth a total of \$24 trillion committed to participate in the transition to a low-carbon economy

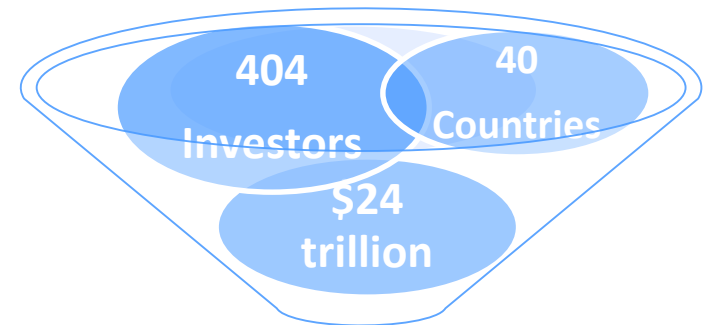
Risks

- Research¹⁾ shows that climate change could cost up to 19% of global GDP by end of 2030
- Investors are seeking ways to mitigate the financial costs of climate change



Opportunities

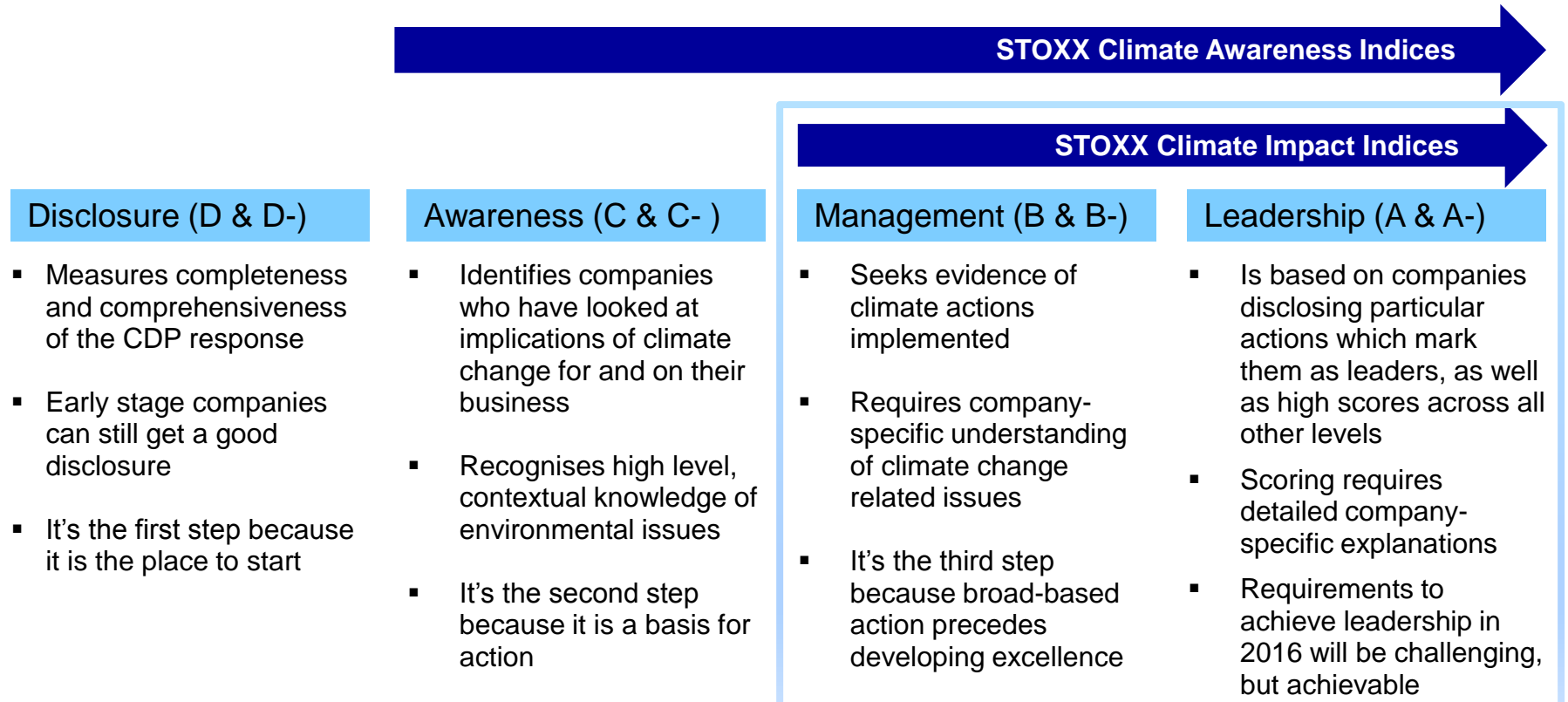
- Investors are discovering the potential of investments in renewable energy and the low-carbon economy
- Such investments offer favorable risk-return profiles compared to the benchmark



Global Investor Statement on Climate Change

1) Report titled "Shaping Climate-Resilient Development" by Economics of Climate Adaptation (ECA) Working Group

CDP Scoring Levels



CDP Climate Change scoring measures companies progress towards environmental stewardship. The scoring methodology includes forward-looking metrics such as carbon pricing and science-based targets. STOXX Climate Impact indices select companies with climate change scoring Management and Leadership levels. These companies show understanding of the impact of climate change on their business and all have implemented “actions” to address climate change risk and opportunities in their organisation.

STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index

Description

STOXX Climate Impact Indices

- Unique concept utilizing forward-looking indicators based on CDP research
- Contains companies with a CDP Performance Band Score of between A (Leadership) and B- (Management)
- Constituents focus on solving the climate problem (A to A-: “Leaders”) and managing climate change risks and impact (B to B-: “Management”)
- STOXX® Europe 600
- Exclude:
 - ICB subsector Coal (1771)
 - UN Global Compact Violations
 - Controversial Weapons
 - ICB Sector Tobacco (3785)
- Select all stocks from the Universe with a CDP Climate Scoring of A to B- (Leadership and Management)
- Price weighted:
 - Free-float market cap multiplied by the corresponding Z-score carbon intensity factor of each constituent with constituent capping at 5%
 - Overweight stocks with lower carbon intensities, underweight those with higher emissions

Universe



Selection



Weighting



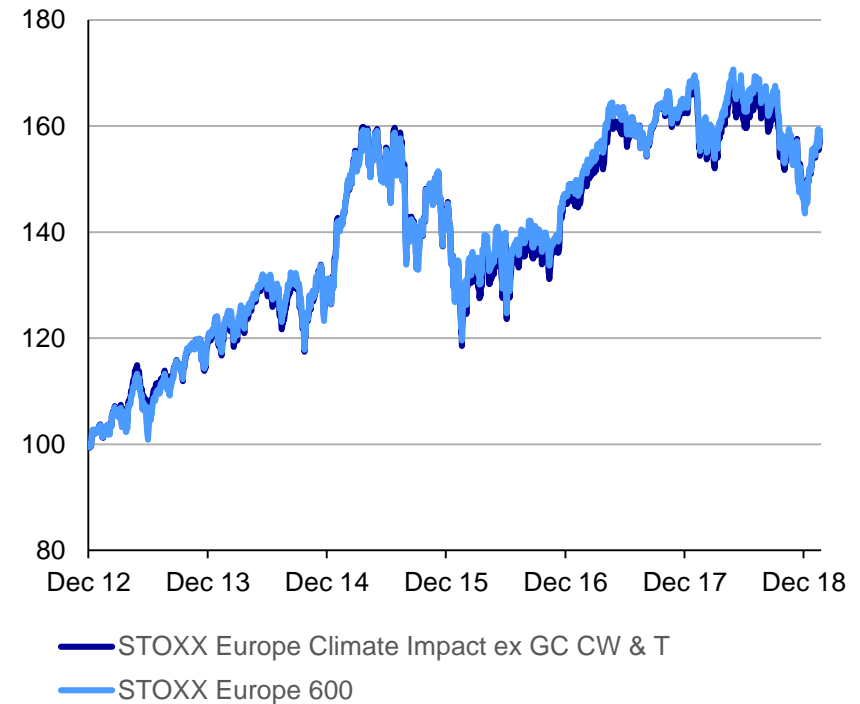
STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index

Risk and return overview

Risk and return characteristics¹⁾²⁾

	STOXX Europe Climate Impact Ex GC, CW & Tob	STOXX Europe 600
Return (overall)	7.8%	7.9%
Return 1y	0.7%	0.6%
Return 3y	9.0%	9.0%
Return 5y	5.3%	5.3%
Volatility 1y	12.1%	12.6%
Volatility 3y	13.3%	13.5%
Volatility 5y	15.7%	15.6%
Sharpe Ratio (overall)	0.59	0.59
Max. Drawdown (overall)	-25.8%	-24.9%
Tracking error (overall)	1.6%	
Number of Constituents	258	600

Index performance¹⁾



The STOXX Europe Climate Impact index has a 53.3% lower carbon footprint than the STOXX Europe 600 index

1) Source: STOXX, EUR GR daily data, Dec. 24, 2012 to Feb. 14, 2019.

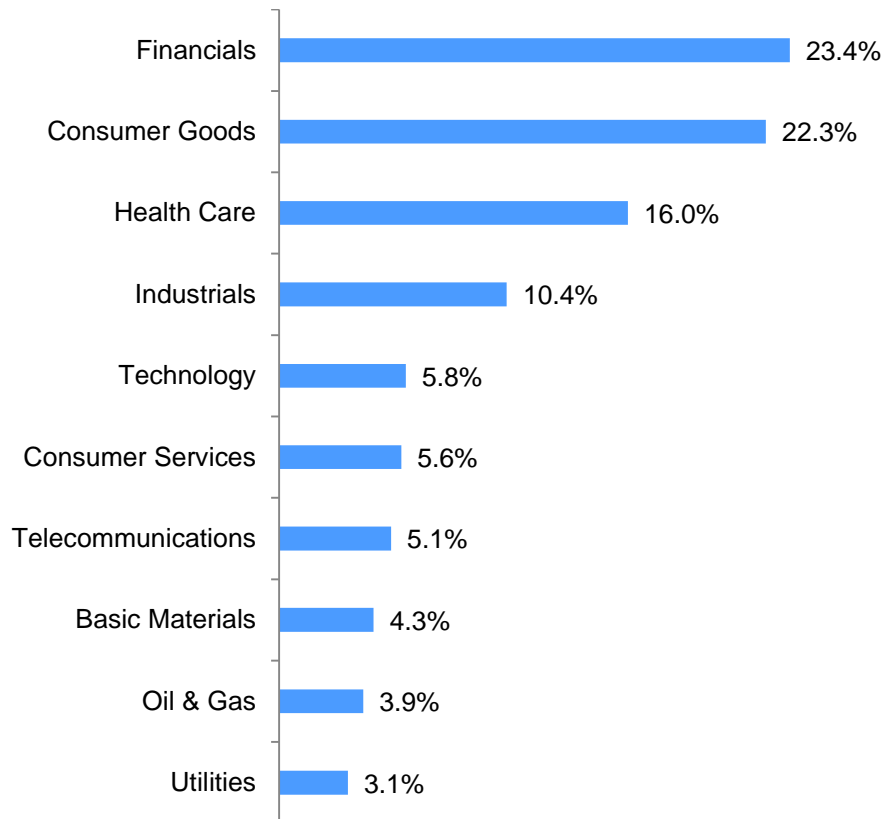
2) Annualised: returns, volatility, Sharpe ratio and tracking error figures used. Relative figures calculated against STOXX Europe 600 Index. Overall: Dec. 24, 2012 to Feb. 14, 2019; 1y: Feb. 15, 2018 to Feb. 14, 2019; 3y: Feb. 15, 2016 to Feb. 14, 2019; 5y: Feb. 15, 2014 to Feb. 14, 2019.

3) EONIA rate used as proxy for riskless returns.

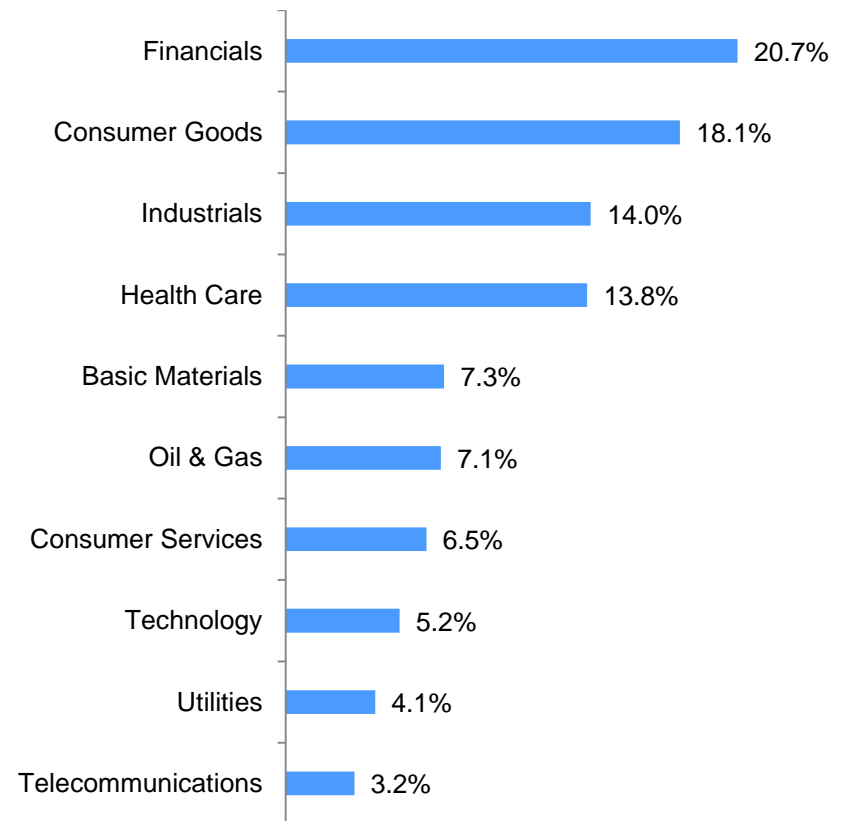
STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index vs STOXX Europe 600

Industry allocation¹⁾

STOXX Europe Climate Impact



STOXX Europe 600

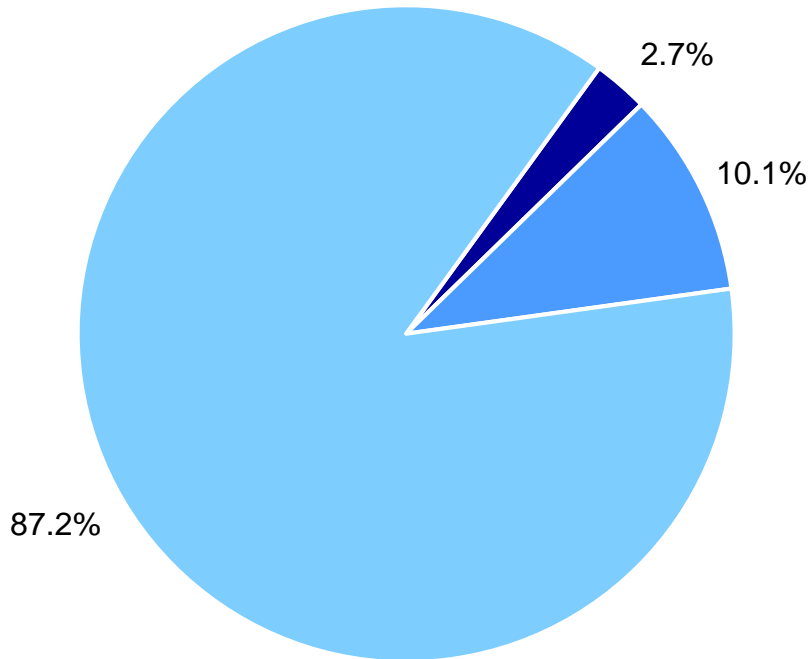


1) Source: STOXX Data as of Feb. 14, 2019.

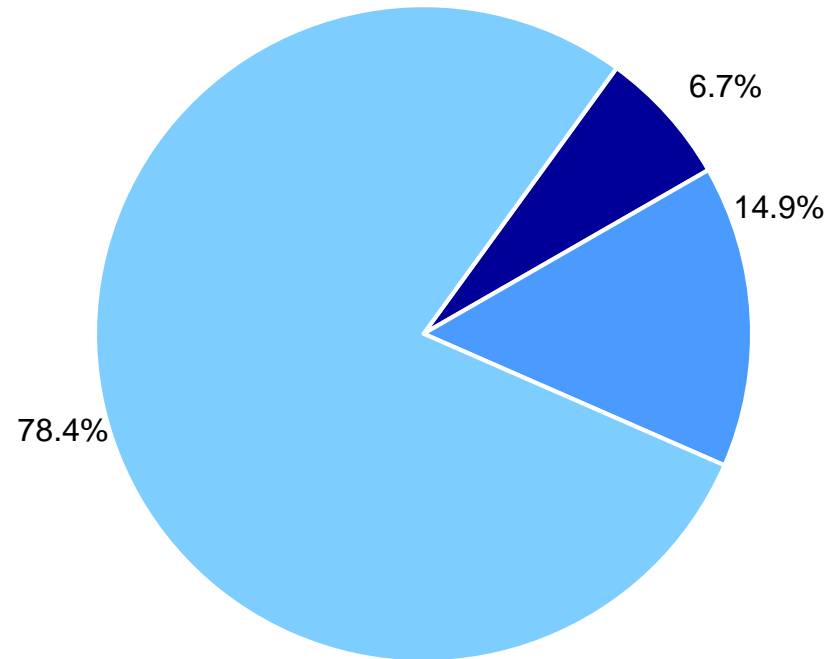
STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index vs STOXX Europe 600

Size allocation¹⁾

STOXX Europe Climate Impact



STOXX Europe 600



- STOXX Europe Small 200 Index
- STOXX Europe Mid 200 Index
- STOXX Europe Large 200 Index

- STOXX Europe Small 200 Index
- STOXX Europe Mid 200 Index
- STOXX Europe Large 200 Index

1) Source: STOXX. Data as of Feb. 14, 2019.

STOXX[®] Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index

Index details

Symbol	ISIN	Type	Currency		Reuters
SXECITEP	CH0355796415	Price	EUR	SXECITEP INDEX	.SXECITEP
SXECITEN	CH0355796225	Net Return	EUR	SXECITEN INDEX	.SXECITEN
SXECITEG	CH0355795524	Gross Return	EUR	SXECITEG INDEX	.SXECITEG
SXUCITUP	CH0355796183	Price	USD		.SXUCITUP
SXUCITUN	CH0355796027	Net Return	USD		.SXUCITUN
SXUCITUG	CH0355796126	Gross Return	USD		.SXUCITUG

The STOXX Europe Climate Impact index was launched on Mar. 07, 2017 with base value of 100 on Dec. 24, 2012.

Decrement indices based on the STOXX® Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index

Decrement Index	Ticker	ISIN	Currency	Bloomberg	Reuters
iSTOXX Europe Climate Impact Ex GC CW & Tobacco GR Decrement 5% Index	IXECTGD5	CH0442604689	EUR	IXECTGD5 INDEX	.IXECTGD5
iSTOXX Europe Climate Impact Ex GC CW & Tobacco NR Decrement 4.75% Index	IXECTND4	CH0442604705	EUR	IXECTND4 INDEX	.IXECTND4

The iSTOXX Europe Climate Impact Ex GC CW & Tobacco NR Decrement 4.75% Index is based on the Net Return version of the STOXX Europe Climate Impact Ex Global Compact, Controversial Weapons & Tobacco Index, where as the iSTOXX Europe Climate Impact Ex GC CW & Tobacco GR Decrement 5% is based on the Gross Return version of the index.

STOXX Europe Climate Impact Index Future

Contract details

	STOXX Europe Climate Impact Index Futures (FSCI)	STOXX® Europe 600 Futures (FXXP)
Underlying index	STOXX Europe Climate Impact Index (SXCITEP)	STOXX® Europe 600 Index (SXXP)
Index type	Price index	
Contract value	100 EUR per index point	50 EUR per index point
Tick value	10 EUR	5 EUR; 1 EUR for calendar spread
Price quotation	In points with one decimal place	In points with two decimal places
Minimum price change	0.1 index point	0.1 index point; 0.02 for calendar spread
Contract months	Up to 9 months; 3 quarterly months	
Settlement	Cash settlement, payable on the first exchange day following the Final Settlement Day	
Final settlement price	Based on the average of the respective STOXX index calculations from 11:50-12:00 noon CET	
Expiration day and Final settlement day	3rd Friday of each expiration month if this is an exchange day; otherwise the exchange day immediately preceding that day. Close of trading in the maturing futures on the Last Trading Day is at 12:00 CET	
Continuous / TES	08:00 – 22:00 CET	
Flexible contracts	Available	
Min block trade size	50 contracts	100 contracts

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Appendix



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About STOXX

STOXX Ltd. is an established and leading index specialist, which started in Europe. The launch of the first STOXX® indices in 1998, including the EURO STOXX 50® Index, marked the beginning of a unique success story, based on the company's neutrality and independence. Since then, STOXX has been at the forefront of market developments and has continuously expanded its portfolio of innovative indices. STOXX now operates globally across all asset classes.

STOXX indices are licensed to more than 500 companies, which include the world's largest financial products issuers, capital owners and asset managers. STOXX indices are used not only as underlyings for financial products, such as ETFs, futures and options and structured products but also for risk and performance measurement. In addition, STOXX Ltd. is the marketing agent for DAX® indices.