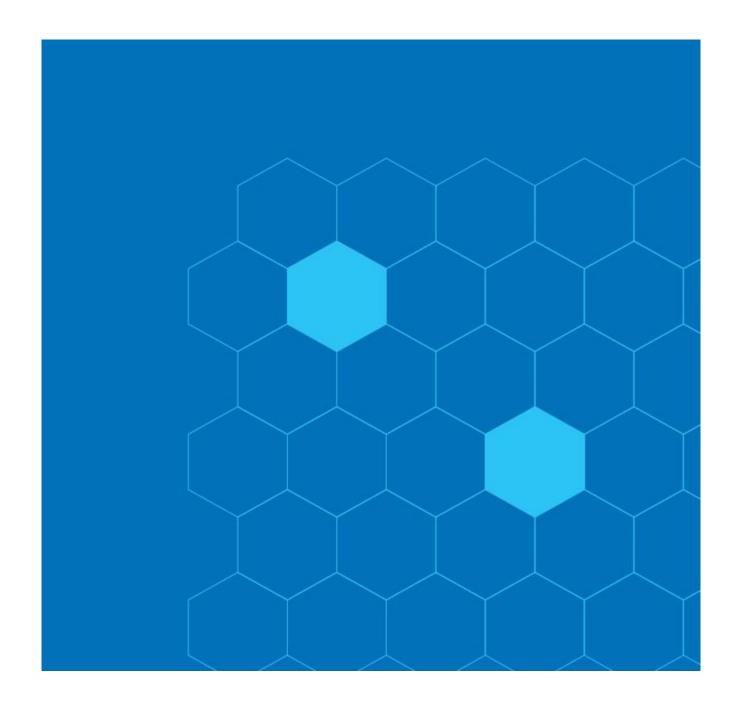
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iSTOXX® METHODOLOGY GUIDE







istoxx® methodology guide CONTENTS

1.	INTRODUCTION TO THE STOXX INDEX GUIDES	3
2.	CHANGES TO THE GUIDEBOOK	4
2.1.	HISTORY OF CHANGES TO THIS METHODOLOGY GUIDE	4
3.	GENERAL PRINCIPLES	5
3.1.	INDEX RATIONALE	5
3.2.	METHODOLOGY REVIEW POLICIES	5
3.3.	INDEX TERMINATION POLICY	5
4.	INDEX METHODOLOGY	5
4.1.	iSTOXX PPF Responsible SDG Index	6
	4.1.1. OVERVIEW	6
	4.1.2. INDEX REVIEW	6
	4.1.3. ONGOING MAINTENANCE	10





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 indices, the dissemination, the index formulas and adjustments due to corporate actions
- The STOXX Index Methodology guide contains the index specific rules regarding the construction and derivation of the portfolio based indices, the individual component selection process and weighting schemes
- » The STOXX Strategy guide contains the formulas and description of all non-equity/strategy indices
- » The STOXX Dividend Points Calculation guide describes the dividend points products
- The STOXX Distribution Points Calculation guide describes the distribution points products
- The STOXX ESG 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 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 Statistical Calculations guide provides a detailed view of definitions and formulas of the statistical calculations as utilized in the reports, factsheets, indices and presentations produced by STOXX

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





2. CHANGES TO THE GUIDEBOOK

2.1. HISTORY OF CHANGES TO THIS METHODOLOGY GUIDE

- » October 2021: Addition of the iSTOXX PPF Responsible SDG Index.
- » September 2022: Methodology update of iSTOXX PPF Responsible SDG Index.
- » March 2023: Methodology update of iSTOXX PPF Responsible SDG Index.
- » October 2023: Change in the STOXX logo.
- » December 2023: Change of dissemination calendar for iSTOXX PPF Responsible SDG Index





3. GENERAL PRINCIPLES

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.





4.1. ISTOXX PPF RESPONSIBLE SDG INDEX

4.1.1.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 the UN Sustainable Development Goals 3 (Good Health and Well-Being), 7 (Affordable and Clean Energy), 11 (Sustainable Cities and Communities), 12 (Responsible Consumption and Production) and 13 (Climate Action). The index excludes companies which are obstructive to these goals and targets a carbon intensity reduction of 30% vs its benchmark. The weighting of constituent securities is determined through an optimization process that is designed to improve targeted SDG exposures while limiting deviation from the benchmark.

Parent Index: STOXX Developed World All Cap

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

4.1.2.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 exposure to a Composite Targeted SDG score:

Maximize: α^Tw

where:

w = index weight

α = Composite Targeted SDG Score

The Composite Targeted SDG Score is created by normalizing (z-scoring) an equally weighted combination of an Entis SDI Targeted Revenue Score and an ISS ESG SDG Targeted Operations Score, across the Parent Index universe. The Entis SDI Targeted Revenue Exposure Score for each security is created by isolating SDI Revenue Percentages for any of the Targeted SDGs (3, 7, 11, 12, 13), and normalizing. The ISS ESG SDG Operations Targeted Score for each security is a summation of normalized scores for SDG 3, 11, 12 and the average of 7 and 13, and normalizing that signal.



The following constraints are applied during the optimization:

Target	Constraint		
PPF Public Exclusions	Not Held		
ISS ESG SDG Controversy Score	Not Held for any Targeted SDG Scores <-5		
ISS ESG SDG Products and Services Score	Not Held for any Targeted SDG Scores <-5		
Weight of stocks with no data	25% of Parent Index		
Active Entis SDI High Confidence Exposure	>20% vs Parent Index for Targeted SDGs		
Active Entis SDI Exposure	>0% vs Parent Index for each Targeted SDG		
Active ISS ESG SDG Operations Score	>0% vs Parent Index for each Targeted SDG		
Active ISS ESG SDG Overall Score	>0% vs Parent Index		
Carbon Emission Intensity	Minimum 30% reduction vs Parent Index		
Minimum weight	Max (Min(Parent Index Weight), 0.25 * Parent Index Weight)		
Maximum weight	Min (Parent Index Weight +2%, 10 * Parent Index Weight)		
Active sector (ICB Level 1) exposures	Within 5% of Parent Index		
Active country exposures	Within 5% of Parent Index		
Ex-Ante Tracking Error	Maximum 85bps		
Turnover	Maximum 1.5% one way per quarter		

PPF Public Exclusions: Securities of companies which appear on most current 'Uitsluitingslijst beleggingen,' posted on https://philipspensioenfonds.nl/ as of the review cut-off date are not held.

ISS ESG SDG Controversy Score: Securities which have a score of less than -5 for any of the targeted SDGs (3,7,11,12,13) are not held.

ISS ESG SDG Products and Services Score: Securities which have a score of less than -5 for the SDGs (3,11,12) are not held. Companies that have a score of less than -5 for SDG 7 and 13 are held if they have Ambitious, Approved or Committed Science Based Targets (SBT) as per ISS.

Missing Data Treatment: Securities missing Emissions Intensity, GHG Reduction Targets, ISS Products and Services Scores, and Entis SDI Scores are held at 25% parent index weight.

Active Entis SDI High Confidence Exposure¹: The weight of securities which are classified as Targeted High Confidence in the index is summed up for the Parent Index, and the total weight of these securities in the index must be at least 20% higher (Parent Index Weight + 20%). Targeted High Confidence is defined as securities which satisfy all the following criteria: Entis SDI Status is [Majority, Decisive] and SDI Confidence is [4,5] and SDI Main SDGs is [3,7,11,12,13].

Active Entis SDI Revenue Exposure: The weight of securities with Entis SDI Main SDGs flags is summed up for the Parent Index for each of the targeted SDGs (3,7,11,12,13), and the weight in the index must be at least as high as the benchmark for each of the targeted SDGs.



¹ January 2020 Entis data is used to start the backtest in December 2019.

Active ISS ESG SDG Operations Score: The ISS ESG SDG Operations Score of the index must be at least as high as the parent index for each of the targeted SDGs (3,7,11,12,13).

Active ISS ESG SDG Overall Score: The ISS ESG SDG Overall Score of the index must be at least as high as the parent index.

Carbon Emissions Intensity: The ISS ESG carbon emissions intensity (USD) must have a minimum reduction of 30% compared to the parent index.

Minimum weight: The minimum weight of each constituent is limited to the greater of the lowest weight in the Parent Index and 0.25 times the Parent Index weight.

Maximum weight: The maximum weight of each constituent is limited to the lesser of the Parent Index weight plus 2% and 10 times the Parent Index weight.

Active sector exposures: The exposure to each ICB Industry is summed up for the Parent Index, and the exposure of the index must be within +/-5% 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 +/-5% from the Parent Index exposures.

Ex-ante Tracking Error: The Index has a maximum of 85bps ex-ante tracking error, using the Axioma Risk Model specified.

Turnover²: The Index has a quarterly one-way turnover limit of 1.5%

Infeasibility Handling: If a solution that satisfies the above constraints cannot be found, three of the methodology constraints can potentially be relaxed in order to find a final index solution:

- Ex-ante Tracking Error (TE)
- Quarterly, One-Way Turnover (TO)
- Active Entis SDI High Confidence Exposure (HC)

The index relaxation methodology tests each of the following cases, in order. Once a first solution is found, that solution is used and the other cases are not attempted. If all cases are tried without finding a solution, no rebalancing for the quarter will occur.

- 1. TE = 0.85%; TO = 1.5%; HC = 20%
- 2. TE = 0.85%; TO = 1.75%; HC = 20%
- 3. TE = 0.85%; TO = 2.0%; HC = 20%
- 4. TE = 0.85%; TO = 2.25%; HC = 20%
- 5. TE = 0.85%; TO = 2.5%; HC = 20%
- 6. TE = 0.85%; TO = 2.75%; HC = 20%



² Turnover constraint not applied for September 2021 rebalance in backtest period

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7. TE = 0.85%; TO = 3.0%; HC = 20%
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8. TE = 0.85%; TO = 3.25%; HC = 20%

9. TE = 0.85%; TO = 3.5%; HC = 20%

10. TE = 0.85%; TO = 3.75%; HC = 20%

11. TE = 0.90%; TO = 3.75%; HC = 20%

12. TE = 0.90%; TO = 6.25%; HC = 20%

13. TE = 0.95%; TO = 6.25%; HC = 20%

14. TE = 1.0%; TO = 6.25%; HC = 20%

15. TE = 1.0%; TO = 6.25%; HC = 15%

16. TE = 1.0%; TO = 6.25%; HC = 10%

If a solution that satisfies the above constraints cannot be found, the Maximum Turnover constraint is relaxed using Axioma's proprietary constraint hierarchy procedure.

Weighting factors: Weighting factors are based on the closing prices in EUR (p_i) based on the schedule in the Review Frequency section below

Weighting factor = $(1,000,000,000,000 \times w_i / p_i)$, 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, according to the below schedule, following the STOXX Global calendar.

Review Month	Cut-off date for risk model and Parent Index data / Weighting Factor calculation date	Cut-off date for all other data	Proforma publication	Review effective date
March			After the close of the	The next dissemination
June	Second Friday of the review month		Wednesday before the	day immediately
		Last dissemination	third Friday of the	following the last
September		day of the month	review month	dissemination day of the
		preceding the review		review month
December	Wednesday before	month	After the close of the	Monday following the
	second Friday of the		second Friday of the	third Friday of the review
	review month		review month	month

Any securities removed from the STOXX Developed World All Cap Index as part of the quarterly review will be removed from the index. Parent index related changes are implemented in the index on the third Friday in March, June, September, and December and effective the next trading day.



1. INDEX METHODOLOGY GUIDE

4.1.3. 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

