

# INDEX GUIDELINE

*Solactive Green Bond Index Family*

*Version 1.0*

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## INTRODUCTION

This document (the "GUIDELINE") is to be used as a guideline with regard to the composition, calculation and maintenance of the Solactive Green Bond Index Family (the "INDEX"). Any amendments to the rules made to the GUIDELINE are approved by the OVERSIGHT COMMITTEE as specified in the Bond Index Methodology. The INDEX is owned, calculated, administered and published by Solactive AG ("SOLACTIVE") assuming the role as administrator (the "INDEX ADMINISTRATOR") under the Regulation (EU) 2016/1011 (the "BENCHMARK REGULATION" or "BMR"). The name "Solactive" is trademarked.

The GUIDELINE and the policies and methodology documents referenced herein contain the underlying principles and rules regarding the structure and operation of the INDEX. SOLACTIVE does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the INDEX nor the level of the INDEX at any certain point in time nor in any other respect. SOLACTIVE strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for SOLACTIVE – irrespective of possible obligations to issuers of financial instruments or investment funds referencing the INDEX under a valid license – to advise third parties, including investors and/or financial intermediaries, of any errors in the INDEX. The publication of the INDEX by SOLACTIVE does not constitute a recommendation for capital investment and does not contain any assurance or opinion of SOLACTIVE regarding a possible investment in a financial instrument based on this INDEX.

## 1. INDEX SPECIFICATIONS

### 1.1. SCOPE OF THE INDEX

- The Solactive Green Bond Index is a rules-based, market value weighted index engineered to mirror the green bond market. The index is denominated in USD.
- The Solactive Green Bond EUR USD IG Index is a rules-based, market value weighted index engineered to mirror the investment grade green bond market. The index is comprised of investment grade rated green bonds denominated in EUR and USD. The index is denominated in EUR.

All above-mentioned indices are Total Return Indices, i.e. coupon payments will be reinvested in the Indices on each REBALANCE DAY.



## 1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	Calculation Formula*	RIC	BBG ticker
Solactive Green Bond Index	DE000SLA0FS4	USD	TR	Direct	.SOLGREEN	SOLGREEN
Solactive Green Bond EUR USD IG Index	DE000SLA2514	EUR	TR	Direct	.SGREENIG	SGREENIG
Solactive Green Bond EUR USD IG CHF Index	DE000SLOBSQ0	CHF	TR	Direct	.SGREENIC	
Solactive Green Bond EUR USD IG GBP Index	DE000SLOAXX8	GBP	TR	Direct	.SGREENGB	
Solactive Green Bond EUR USD IG CHF Hedged Index	DE000SLOBSR8	CHF	CH	Standard	.SGREENCH	SGREENCH
Solactive Green Bond EUR USD IG Hedged EUR Index	DE000SLA3B66	EUR	CH	Standard	.SGREENIH	SGREENIH
Solactive Green Bond EUR USD IG Hedged GBP Index	DE000SLOA048	GBP	CH	Standard	.SGREENGH	SGREENGH

\*The calculation formula refers to the index calculation's dependency on cash reinvestment, based on whether the cash reinvestment occurs on a daily/direct basis or periodically.

\*TR means that the INDEX is calculated as Total Return index as described in the Bond Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/bond-index-methodology/>

\*CH means that the Index is calculated as Currency Hedge Index, as described in the Currency Hedged Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/currency-hedged-general-methodology/>

The INDEX is published on the website of the INDEX ADMINISTRATOR ([www.solactive.com](http://www.solactive.com)) and is, in addition, available via the price marketing services of Boerse Stuttgart GmbH and may be distributed to all of its affiliated vendors. Each vendor decides on an individual basis as to whether it will distribute or display the INDEX via its information systems.

Any publication in relation to the INDEX (e.g. notices, amendments to the GUIDELINE) will be available at the website of the INDEX ADMINISTRATOR: <https://www.solactive.com/news/announcements/>.



### 1.3. INITIAL LEVEL OF THE INDEX

The initial level of the Solactive Green Bond Index on 10th March, 2014 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 10th March, 2014 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Green Bond EUR USD IG Index on 09th of February, 2017 is 119.89. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 09th of February, 2017 will be recorded in accordance with Article 8 of the BMR.

### 1.4. PRICES AND CALCULATION FREQUENCY

The Solactive Green Bond Index is calculated and distributed once every BUSINESS DAY based on the EVALUATED BID PRICE of the INDEX COMPONENTS. Bonds added in a rebalancing (see Section 3) are included the INDEX at the EVALUATED BID PRICE on the relevant REBALANCE DAY. Bonds which are excluded from the INDEX in a rebalance are reflected in the calculation of the level of the INDEX for the REBALANCE DAY at the EVALUATED BID PRICE on the relevant REBALANCE DAY. INDEX analytical values are calculated each BUSINESS DAY using the LAST EVALUATED PRICE based on FIXING TIME. Prices of INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the 4pm London time WM Fixing quoted by Reuters.

The Solactive Green Bond EUR USD IG Index is calculated and distributed once every BUSINESS DAY based on the EVALUATED MID PRICE of the INDEX COMPONENTS. Bonds added in a rebalancing (see Section 3) are included the INDEX at the EVALUATED BID PRICE on the relevant REBALANCE DAY. Bonds which are excluded from the INDEX in a rebalance are reflected in the calculation of the level of the INDEX for the REBALANCE DAY at the EVALUATED MID PRICE on the relevant REBALANCE DAY. Weight increases in a rebalance are also considered at the EVALUATED BID PRICE on the relevant REBALANCE DAY. INDEX analytical values are calculated each BUSINESS DAY using the LAST EVALUATED PRICE based on FIXING TIME. Prices of INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the 4pm London time WM Fixing quoted by Reuters.

The currency hedged indices are calculated based on TRADING PRICES on the exchanges on which the UNDERLYING INDEX COMPONENTS are listed. TRADING PRICES of the UNDERLYING INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the current Intercontinental Exchange (ICE) spot foreign exchange rate. Should there be no current TRADING PRICE for an INDEX COMPONENT, the later of: (i) the most recent CLOSING PRICE; or (ii) the last available TRADING PRICE for the preceding TRADING DAY is used in the calculation.

In addition to the intraday calculation a closing level of the INDEX for each calculation day is also calculated. This closing level is based on the CLOSING PRICES for the underlying index and 4:00 PM London WM Spot and Forward Fixings quoted by Reuters. If there is no 4:00 PM London time WM for the relevant CALCULATION DAY, the last available 4:00 PM London time WM Fixing will be used for the closing level calculation.



## 2. INDEX SELECTION

On each SELECTION DAY, all bonds which meet the INDEX COMPONENT REQUIREMENTS are eligible for inclusion in the INDEX and will be added as INDEX COMPONENT on the REBALANCE DAY. Additionally, on each SELECTION DAY, it will be evaluated whether all current INDEX COMPONENTS still meet the INDEX COMPONENT REQUIREMENTS. Each INDEX COMPONENT that does not meet the INDEX COMPONENT REQUIREMENTS will be removed from the INDEX on the next REBALANCE DAY.

### 2.1. SELECTION OF THE INDEX COMPONENTS

The initial composition of each INDEX, as well as any selection for a rebalance (as specified in Section 3) is determined using the following rules:

The "Selection Pool" for the Solactive Green Bond Index comprises bonds that fulfill the following conditions:

- a) Defined as Green bonds by the Climate Bonds Initiative
- b) Amount Outstanding of at least 100 million USD as of SELECTION DAY
- c) Time to maturity of at least six months as of SELECTION DAY
- d) Issued on or before REBALANCE DAY
- e) Exclude INFLATION LINKED BONDS, CONVERTIBLE BONDS, US MUNICIPAL BONDS, ABS/MBS and other STRUCTURED SECURITIES.
- f) Private Placements are excluded. However, if a REGS version of the 144A Private Placement is or becomes available, then the REGS version is included

The "Selection Pool" for the Solactive Green Bond EUR USD IG Index comprises bonds that fulfill the following conditions:

- a) Defined as Green bonds by the Climate Bonds Initiative
- b) Denominated as EUR or USD only
- c) Amount Outstanding of at least EUR 300 million and USD 300 million for bonds denominated in EUR and USD respectively
- d) Time to maturity of at least 12 months as of SELECTION DAY
- e) Issued on or before REBALANCE DAY
- f) Exclude FLOATING RATE NOTES, INFLATION LINKED BONDS, CONVERTIBLE BONDS, US MUNICIPAL BONDS, ABS/MBS and other STRUCTURED SECURITIES



- g) Only Investment Grade rated issues (based on the lowest available rating from S&P and Moody's).
- h) For Sovereign bonds, the issuer rating is used if the bond rating is unavailable.
- i) Private Placements are excluded. However, if a REGS version of the 144A Private Placement is or becomes available, then the REGS version is included
- j) The bond issuers are screened for ESG scores. The screening involves the following criteria:
  - o All the bonds are screened for ESG criteria using Sustainalytic's "UN Sanctions" or "Global Compact Compliance" screening:
    - Global Compact Compliance: If the issuer is classified by Sustainalytics as non-compliant, the bonds will be excluded. If the corporate issuer has no data available, the bonds of this issuer will be excluded.
    - Country UN Sanctions: If the issuer is classified by Sustainalytics as non-sanctioned issuers, the bonds of this issuer will be included.
  - o If a government issuer is not covered by either UN sanctions or Global Compact Compliance, the bonds of this issuer will receive the UN Sanctions score of the issuer's country of incorporation.

A price from the PRICING PROVIDER must be available for each INDEX COMPONENT on each SELECTION DAY.

### *2.1.1 SELECTION OF THE INDEX CURRENCY COMPONENTS*

Based on the INDEX CURRENCY UNIVERSE, the initial composition of the INDEX as well as any selection for an ordinary rebalance is determined on the SELECTION DAY in accordance with the following rules (the "INDEX CURRENCY COMPONENT REQUIREMENTS"):

- All of the currencies from the INDEX CURRENCY UNIVERSE

## 2.2. WEIGHTING OF THE INDEX COMPONENTS

On each SELECTION DAY each INDEX COMPONENT of the Solactive Green Bond Index is weighted using the market value based on the LAST EVALUATED BID PRICE and accrued interest as on the SELECTION DAY in order to achieve the aim of the INDEX.

On each SELECTION DAY each INDEX COMPONENT of the Solactive Green Bond EUR USD IG Index is weighted using the market value based on the LAST EVALUATED MID PRICE and accrued interest as on SELECTION DAY in order to achieve the aim of the INDEX. The weighting of the INDEX COMPONENTS will be as follows:



- The INDEX COMPONENTS are weighted according to their respective Market Value in proportion to the aggregated Market Value of all INDEX COMPONENTS in the index, whereas the following weighting constraints are applied:
  - Corporate issuers are capped at 5%.
  - Government issuers are capped at 10%.

### *2.2.1 WEIGHTING OF THE INDEX CURRENCY COMPONENTS*

On each SELECTION DAY, the weight of each INDEX CURRENCY COMPONENT is assigned according to the aggregated weights of all the UNDERLYING INDEX COMPONENTS quoted in the respective currency.

## 3. ORDINARY REBALANCE

In order to reflect the new selection of the INDEX COMPONENTS determined on the SELECTION DAY (in accordance with Section 2.1) the INDEX is adjusted on the REBALANCE DAY after CLOSE OF BUSINESS.

For more information on the rebalance procedure please refer to the Bond Index Methodology, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/bond-index-methodology/>.

SOLACTIVE will publish any changes made to the INDEX COMPONENTS with sufficient notice before the REBALANCE DAY on the SOLACTIVE webpage.

## 4. CORPORATE ACTIONS

As part of the INDEX maintenance SOLACTIVE will consider various events – also referred to as corporate actions – which result in an adjustment to the INDEX between two regular REBALANCE DAYS. Such events have a material impact on the price, weighting or overall integrity of INDEX COMPONENTS. Therefore, they need to be accounted for in the calculation of the INDEX. Adjustments to the INDEX to account for corporate actions will be made in compliance with the Bond Index Methodology.





## 5. DEFINITIONS

“BENCHMARK REGULATION” shall have the meaning as defined in Section “Introduction”.

“BMR” shall have the meaning as defined in Section “Introduction”.

“BUSINESS DAY” is with respect to the INDEX each day Monday to Friday except the following sets of days: SIFMA and TARGET2.

“CLOSE OF BUSINESS” is a time stamp when an INDEX is calculated.

“CLOSING PRICE” in respect of an INDEX COMPONENT and a TRADING DAY is a security's final regular-hours TRADING PRICE published by the EXCHANGE and determined in accordance with the EXCHANGE regulations. If the EXCHANGE has no or has not published a CLOSING PRICE in accordance with the EXCHANGE rules for an INDEX COMPONENT, the last TRADING PRICE will be used.

“CURRENCY HEDGE INDEX” represent the return resulting from the sum of an underlying index performance and the performance of the hedge of this index using currency forward contracts.

“GUIDELINE” shall have the meaning as defined in Section “Introduction”.

“INDEX” shall have the meaning as defined in Section “Introduction”.

“INDEX ADMINISTRATOR” shall have the meaning as defined in Section “Introduction”.

“INDEX CALCULATOR” is SOLACTIVE or any other appropriately appointed successor in this function.

“INDEX COMPONENT” is each bond reflected in the INDEX.

“INDEX COMPONENT REQUIREMENTS” shall have the meaning as defined in Section 2.1.

“INDEX CURRENCY” is the currency specified in the column “Currency” in the table in Section 1.2.

“INDEX CURRENCY COMPONENTS” is each currency on which UNDERLYING INDEX COMPONENT trades in the market.

“INDEX CURRENCY COMPONENT WEIGHT” is value resultant from the sum of all the UNDERLYING INDEX COMPONENT'S weights quoted in the respective currency.

“INDEX CURRENCY UNIVERSE” is the sum of all currencies which fulfill the INDEX CURRENCY UNIVERSE REQUIREMENTS.

“INDEX CURRENCY UNIVERSE REQUIREMENTS” shall have the meaning as defined in Section 2.1.1

“ISSUER” is the issuing entity of the respective bond.

“OVERSIGHT COMMITTEE” shall have the meaning as defined in the Bond Index Methodology.

“PRICING PROVIDER” is Intercontinental Exchange (“ICE”) for bonds that are not denominated in CAD currency. CanDeal is the PRICING PROVIDER for bonds denominated in CAD currency.



"REBALANCE DAY" is the last Business Day of each month.

"SELECTION DAY" is 5 BUSINESS DAYS before the scheduled REBALANCE DAY, disregarding any potential change of the REBALANCE DAY

*For currency hedged indices, the selection day is equal to the rebalance day and rebalancing frequency is monthly.*

"SOLACTIVE" shall have the meaning as defined in Section "Introduction".

"SPOT" is the spot foreign exchange rate to convert the currency of the INDEX COMPONENT into the denomination of the INDEX CURRENCY.

"TRADING DAY" is with respect to an INDEX COMPONENT included in the Index at the REBALANCE DAY and every INDEX COMPONENT included in the Index at the CALCULATION DAY immediately following the REBALANCE DAY (for clarification: this provision is intended to capture the TRADING DAYS for the securities to be included in the INDEX as new INDEX COMPONENTS with close of trading on the relevant EXCHANGE on the REBALANCE DAY) a day on which the relevant EXCHANGE is open for trading (or a day that would have been such a day if a market disruption had not occurred), excluding days on which trading may be ceased prior to the scheduled EXCHANGE closing time and days on which the EXCHANGE is open for a scheduled shortened period. The INDEX ADMINISTRATOR is ultimately responsible as to whether a certain day is a TRADING DAY.

"TRADING PRICES" in respect of an INDEX COMPONENT and a TRADING DAY is the most recent published price at which the INDEX COMPONENT was traded on the respective EXCHANGE.

"UNDERLYING INDEX COMPONENTS" is each security reflected in the composition of the UNDERLYING INDEX.

Please note that the definitions included in the Bond Index Methodology apply to this guideline. In case of a discrepancy, the definition presented in the guidelines should prevail.

## 6. HISTORY OF INDEX CHANGES

Version	Date	Description
1.0	17 June 2024	Index Family Guideline creation ( <i>initial version</i> )

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