

# INDEX GUIDELINE

*Solactive Developed Government 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 Developed Government 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 Broad Global Developed Government Bond TR EUR Index is a rules-based index engineered to mirror the performance of the global developed sovereign, local currency debt markets.
- The Solactive Global Developed Government Bond GDP Weighted TR EUR Index is a rules-based, nonmarket value weighted, total return index designed to mirror the local currency developed markets government bond market. The index follows the same selection criteria as the Solactive Broad Global Government Bond TR EUR. The underlying index is comprised of local currency, fixed rate debt instruments issued by central governments of countries which are classified as developed markets under Solactive's country classification schema or belong to the Euro area.
- The Solactive Global Developed Government Bond TR EUR Index is a rules-based index engineered to mirror the performance of the largest developed sovereign, local currency debt markets.
- The Solactive Broad Global Developed Government Bond TR IG EUR index is a rules-based index engineered to mirror the performance of the global developed sovereign, local currency investment grade debt markets.



- The Solactive Developed Europe Government Bond TR EUR Index, is a rules-based index engineered to mirror the performance of the European developed sovereign, local currency debt markets.
- The Solactive Eurozone Government Bond TR Index is a rules-based index. The index is engineered to mirror the performance of investment grade rated and EUR denominated sovereign debt issued by countries in the Eurozone.
- The indices below are rules-based indices engineered to mirror the performance of the respective sovereign, local currency debt markets

Index Name	Underlying Debt Market
Solactive Australia Government Bond TR AUD Index	Australia
Solactive New Zealand Government Bond TR NZD Index	New Zealand
Solactive Japan Government Bond TR JPY Index	Japan
Solactive United Kingdom Government Bond TR GBP Index	United Kingdom
Solactive Nordics Government Bond TR EUR Index	Sweden, Norway and Denmark

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 Broad Global Developed Government Bond TR EUR Index	DE000SLA6QG3	EUR	TR	Periodic	.SOLDSOV	
Solactive Global Developed Government Bond GDP Weighted TR EUR Index	DE000SLA6Q41	EUR	TR	Periodic	.SOLGGDP	
Solactive Global Developed Government Bond TR EUR Index	DE000SLA6P83	EUR	TR	Periodic	.SOLGDGA	SOLGDGA
Solactive Global Developed Government Bond TR EUR Hedged Index	DE000SLOELF2	EUR	CH	Standard	.SOLGDGH	
Solactive Broad Global Developed Government Bond TR IG EUR index	DE000SLA6Q25	EUR	TR	Periodic	.SOLDISOV	
Solactive Developed Europe Government Bond TR EUR Index	DE000SLA6Q33	EUR	TR	Periodic	.SOLEURG	
Solactive Eurozone Government Bond TR Index	DE000SLA44D6	EUR	TR	Periodic	.SOLEUSOV	SOLEUSOV
Solactive Australia Government Bond TR AUD Index	DE000SLA6QZ3	AUD	TR	Periodic	.SOLAUSOV	
Solactive New Zealand Government Bond TR NZD Index	DE000SLA6Q09	NZD	TR	Periodic	.SOLNZSOV	
Solactive Japan Government Bond TR JPY Index	DE000SLA6QX8	JPY	TR	Periodic	.SOLJPSOV	
Solactive United Kingdom Government Bond TR GBP Index	DE000SLA6QY6	GBP	TR	Periodic	.SOLUKSOV	
Solactive Nordics Government Bond TR EUR Index	DE000SLA6Q17	EUR	TR	Periodic	.SOLNSOV	

\*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 Broad Global Developed Government Bond TR EUR Index on 9th of October 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Global Developed Government Bond GDP Weighted TR EUR Index on 20th of March, 2019 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 20th of March, 2019 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Global Developed Government Bond TR EUR Index on 10th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 10th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Broad Global Developed Government Bond TR IG EUR index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Developed Europe Government Bond TR EUR Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Eurozone Government Bond TR Index on 1st of December, 2017 is 1455.83. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 1st of December, 2017 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Australia Government Bond TR AUD Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive New Zealand Government Bond TR NZD Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Japan Government Bond TR JPY Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.



The initial level of the Solactive United Kingdom Government Bond TR GBP Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

The initial level of the Solactive Nordics Government Bond TR EUR Index on 9th of October, 2018 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the 9th of October, 2018 will be recorded in accordance with Article 8 of the BMR.

## 1.4. PRICES AND CALCULATION FREQUENCY

The 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 ASK 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 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 Broad Global Developed Government Bond TR EUR Index, and Solactive Global Developed Government Bond GDP Weighted TR EUR Index comprises bonds that fulfill the following conditions:

- a) Only Central Government debt issued by members of the Eurozone or by countries classified by the [Solactive Bond Market Classification Framework](#) as Developed World Countries
- b) The bonds issued under MTN or EMTN series are not eligible for the index.
- c) Bond Type: Fixed Coupon Bonds are eligible for the index. The following bond types are specifically excluded from the index: Sinkables, Perpetuals, Putables, Floating Rate Notes, Callables, Extendibles, Inflation Linked Bonds, Principal Only Strips and Interest Only Strips as well as Private Placements
- d) Time to maturity: Must have at least 1 year to maturity on each REBALANCE DAY.
- e) Currency: local currency of the issuing country denominated.
- f) Issue Amount Outstanding:
  - At least 1.5 billion in local currency for bonds denominated in AUD, CAD, CHF, EUR, GBP, ILS, NZD, PLN, SGD and USD
  - At least 15 billion in local currency for bonds denominated in DKK, HKD, NOK and SEK
  - At least 150 billion in local currency for bonds denominated in JPY.

The “Selection Pool” for the Solactive Global Developed Government Bond TR EUR Index comprises bonds that fulfill the following conditions:

- a) The security must be eligible for the Solactive Broad Global Developed Government Bond TR EUR Index.
- b) The issuing country must be classified as a Large Issuing Country.

All IG member countries of the Solactive Broad Global Developed Government Bond TR EUR Index are screened annually to comprise a list of Large Issuing Countries. This is updated each October and will become effective on the first business day in November. Large Issuing Countries are classified in the following way:

1. A reference composition is created, which consists of all IG member countries of the Solactive Broad Global Developed Government Bond TR EUR Index. The market cap weight of each country within this composition is calculated.
2. Each country with a market cap weight of more than 1% in this composition is eligible for the Solactive Global Developed Government Bond TR Index.





3. If a current member country of the Solactive Global Developed Government Bond TR Index is downgraded below BBB-/Baa3 then an extraordinary adjustment of the eligible member countries will take place using the steps described above. The adjustment will be effective on the following selection day. For the avoidance of doubt, this means that the bonds from the downgraded issuer will be removed only at rebalancing, when any new Large Issuing Country will be included in the index.
- c) Credit rating: The issuer must be rated as investment grade (IG) by either Standard & Poor's or Moody's. For the avoidance of doubt, in case of a split rating the best rating is used.

The "Selection Pool" for the Solactive Broad Global Developed Government Bond TR IG EUR Index comprises bonds that fulfill the following conditions:

- a) The security must be eligible for the Solactive Broad Global Developed Government Bond TR EUR Index.
- b) Credit rating: The issuer must be rated as investment grade (IG) by either Standard & Poor's or Moody's. For the avoidance of doubt, in case of a split rating the best rating is used.

The "Selection Pool" for the Solactive Developed Europe Government Bond TR EUR Index comprises bonds that fulfill the following conditions:

- a) The security must be eligible for the Solactive Broad Global Developed Government Bond TR EUR Index.
- b) Only countries which are located in Europe are eligible for the index (including Israel)
- c) Credit rating: The issuer must be rated as investment grade (IG) by either Standard & Poor's or Moody's. For the avoidance of doubt, in case of a split rating the best rating is used.

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

- a) The security must be eligible for the Solactive Broad Global Developed Government Bond TR EUR Index.
- b) Only Central Government debt denominated in EUR issued by members of the Eurozone is eligible.
- c) Currency: EUR denominated.
- d) Credit rating: The issuer must be rated as an investment grade issuer by at least one of these 2 rating agencies: Standard & Poor's, Moody's. For the avoidance of doubt, in case of a split rating the better rating is used.



- e) Issuer amount outstanding: (amount outstanding per issuer is the total amount outstanding of all bonds under the same issuer that match all the above criteria)
- If an issuer is not part of the index yet: Minimum amount outstanding of EUR 100 billion per issuer.
  - If an issuer is currently part of the index: Minimum amount outstanding of EUR 70 billion per issuer.

The "Selection Pool" for the

Solactive Australia Government Bond TR AUD Index,  
Solactive New Zealand Government Bond TR NZD Index,  
Solactive Japan Government Bond TR JPY Index,  
Solactive United Kingdom Government Bond TR GBP Index, and  
Solactive Nordics Government Bond TR EUR Index

comprises bonds that fulfill the following conditions:

- a) The security must be eligible for the Solactive Broad Global Developed Government Bond TR EUR Index.
- b) Only Central Government debt issued by:
- the government of Australia in the Solactive Australia Government Bond TR AUD Index
  - the government of New Zealand in the Solactive New Zealand Government Bond TR NZD Index
  - the government of Japan in the Solactive Japan Government Bond TR JPY Index
  - the government of the United Kingdom in the Solactive United Kingdom Government Bond TR GBP Index
  - the governments of Sweden, Denmark and Norway in the Solactive Nordics Government Bond TR EUR Index
- c) Currency:
- AUD denominated bonds are eligible for the Solactive Australia Government Bond TR AUD Index
  - NZD denominated bonds are eligible for the Solactive New Zealand Government Bond TR NZD Index
  - JPY denominated bonds are eligible for the Solactive Japan Government Bond TR JPY Index



- GBP denominated bonds are eligible for the United Kingdom in the Solactive United Kingdom Government Bond TR GBP Index
- SEK, NOK and DKK denominated bonds are eligible for the Solactive Nordics Government Bond TR EUR Index.

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 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.

### *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 Solactive Eurozone Government Bond TR Index each day Monday to Friday except the following set of days: European Banking Holidays.

With respect to the remaining indices, BUSINESS DAY is each day Monday to Friday except the following sets of days: European Banking and New York Stock Exchange Holidays.

“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 3 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	<i>17 June 2024</i>	Index Guideline creation ( <i>initial version</i> )

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