

INDEX GUIDELINE

Solactive Emerging Markets Bond Index Family

Version 2.6

23 May 2024



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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 Emerging Markets Bond Index Series (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 Emerging Market Index Series is a set of benchmarks to measure the performance of emerging market government bonds issued in local and hard currency.
- The Index series is designed to provide a broad coverage of the investible universe of emerging market bonds and is customizable to fit specific mandates or investment strategies.
- The Index series is sub-divided by currency type: local and hard currency. The hard currency series covers emerging market government and government-related bonds denominated in hard currencies such as United States Dollars (USD) and Euros (EUR). The local currency series covers bonds issued by central governments or local Central Banks in their own domestic currency that is not a hard currency.
- The classification of a country as Emerging is dependent on the Bond Market Classification Framework, supplemented in the local currency series by an assessment of the tradability of each market for foreign investors.
- The Index Series is rebalanced monthly, and the list of eligible emerging of emerging markets is reviewed annually in line with the Bond Market Classification Framework.
- The Index Series is published in EUR and USD, other currency and hedged versions are available.



1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	Calculation Formula*	RIC	BBG ticker
Solactive USD EM Government & Govt Related TR Index	DE000SLA8P99	USD	TR	Periodic	.SOLEBUB	SOLEBUB
Solactive USD EM Government & Govt Related TR DKK Hedged Index	DE000SL0AMY9	DKK	CH	Standard	.SOLEBUDH	
Solactive USD EM Government & Govt Related TR DKK Index	DE000SL0AW06	DKK	TR	Periodic	.SOLEBUDK	
Solactive USD EM Government & Govt Related TR EUR Hedged Index	DE000SL0AMZ6	EUR	CH	Standard	.SOLEBUEH	
Solactive USD EM Government & Govt Related TR EUR Index	DE000SL0AWZ5	EUR	TR	Periodic	.SOLEBUEU	
Solactive USD EM Government & Govt Related TR NOK Hedged Index	DE000SL0AM08	NOK	CH	Standard	.SOLEBUNH	
Solactive USD EM Government & Govt Related TR NOK Index	DE000SL0AW22	NOK	TR	Periodic	.SOLEBUNO	
Solactive USD EM Government & Govt Related TR SEK Hedged Index	DE000SL0AM16	SEK	CH	Standard	.SOLEBUSH	
Solactive USD EM Government & Govt Related TR SEK Index	DE000SL0AW14	SEK	TR	Periodic	.SOLEBUSE	
Solactive EUR EM Government & Govt Related TR Index	DE000SLA8QE4	EUR	TR	Periodic	.SOLEBEB	
Solactive LCY EM Government TR Index	DE000SLA8QF1	USD	TR	Periodic	.SOLEBLB	
Solactive LCY EM Government TR DKK Index	DE000SL0AW48	DKK	TR	Periodic	.SOLEBLDK	
Solactive LCY EM Government TR EUR Index	DE000SL0AW30	EUR	TR	Periodic	.SOLEBLEU	
Solactive LCY EM Government TR NOK Index	DE000SL0AW63	NOK	TR	Periodic	.SOLEBLNO	



Solactive LCY EM Government TR SEK Index	DE000SLOAW55	SEK	TR	Periodic	.SOLEBLSE	
Solactive LCY EM (incl China) Government TR Index	DE000SLOBSP2	USD	TR	Periodic	.SOLEBIC	
Solactive EM USD Govt & Govt Related Bond Select CAD NTR Index	DE000SLA8T46	CAD	NTR	Periodic	.SOLEHUC	
Solactive EM USD Govt & Govt Related Bond Select CAD Hedged NTR Index	DE000SLA8QG9	CAD	CH	Standard	.SOLEHUS	
Solactive EM Local Currency Government Bond Select NTR Index	DE000SLA8QH7	CAD	NTR	Periodic	.SOLEBLS	SOLEBLS
Solactive LCY EM Government 0-1 Year TR Index	DE000SLOAYX6	USD	TR	Periodic	.SOLLCG01	

*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/>

*NTR means that the INDEX is calculated as Net Return index as described in the Bond Index Methodology, which is available on the SOLACTIVE website:

*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) 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

Historical values will be recorded in accordance with Article 8 of the BMR. Levels of the INDEX published for a period prior to this date have been back-tested..

Name	Index Ric	Date	Initial Value
Solactive USD EM Government & Govt Related TR Index	.SOLEBUB	Jun 5, 2019	1000
Solactive EUR EM Government & Govt Related TR Index	.SOLEBEB	Jun 5, 2019	1000
Solactive LCY EM Government TR Index	.SOLEBLB	Jun 5, 2019	1000
Solactive LCY EM (incl China) Government TR Index	.SOLEBIC	Jun 5, 2019	1000
Solactive EM USD Govt & Govt Related Bond Select CAD NTR Index	.SOLEHUC	Jun 5, 2019	1000
Solactive EM Local Currency Government Bond Select NTR Index	.SOLEBLS	Jun 5, 2019	1000
Solactive LCY EM Government 0-1 Year TR Index	.SOLLCG01	Nov 3, 2020	1000



1.4. PRICES AND CALCULATION FREQUENCY

The INDEX is calculated and distributed once every BUSINESS DAY based on the LAST EVALUATED BID PRICE of the INDEX COMPONENTS. Bonds added in a rebalancing (see Section 3) are included the INDEX at the LAST 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 LAST EVALUATED BID PRICE on the relevant REBALANCE DAY. INDEX analytical values are calculated each BUSINESS DAY using the LAST EVALUATED BID PRICE based on FIXING TIME. Prices of INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the 16:00 London Time WM Fixing spot exchange rates. Only for the Solactive EM USD Govt & Govt Related Bond Select CAD NTR Index prices of Index Components not listed in the Index Currency are converted using the 16:00 NY Time WM Fixing spot exchange rates.

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 16:00 London Time WM Fixing WM Spot and Forward Fixings quoted by Reuters. Only for the Solactive EM USD Govt & Govt Related Bond Select CAD Hedged NTR Index, prices of Index Components not listed in the Index Currency are converted using the 16:00 NY Time WM Fixing spot exchange rates. If there is no Fixing for the relevant CALCULATION DAY, the last available 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:

Hard Currency (EUR & USD) Series

- Bonds must be issued by a government or a government-related entity. This includes regional and local government issuers, majority government-owned entities, and government agencies with a public mandate, or a government debt guarantee falling under the category 3 classification based on the issuer type, as described in the Bond Index



Methodology which is available on the SOLACTIVE website:
<https://www.solactive.com/documents/bond-index-methodology/>

- > Bonds must be issued in USD or EUR and the bond coupon and principal are payable in the same currency.
- > The country must be classified as an emerging market as defined in Section 2.1.1 below.
- > Fixed or Zero Coupon Bonds and sukuks are eligible.
- > Global Depository Notes ('GDN') are not eligible to be part of the selection.
- > Instruments must be issued prior to Rebalance Day
- > The initial maturity must be at least 18 months and the remaining Effective Time to Maturity must be at least 1 year.
- > Bonds must have a minimum amount outstanding of EUR 500 million / USD 500 million.
- > REGs and 144a securities are eligible. Bonds must not be predominantly retail focused and non-144a private placements are not eligible.
- > When both a REGs and a 144a version of the bond are available, the REGs version will be preferred.
- > Treasury bills, Floating Rate Notes, perpetual bonds, Inflation-linked Bonds, hybrid and bank capital bonds and securitized bonds are not eligible.
- > Reliable pricing and reference data must be available.

Local Currency Series

- > Bonds must be issued by a sovereign or local Central Bank in its domestic currency and the bond coupon and principal must be denominated in the same currency.
- > The country must be classified as an Emerging Country as defined in Section 2.1.1 below.
- > The country must have a local currency rating by either S&P or Moody's.
- > Fixed Coupon Bonds or Zero-Coupon Bonds are eligible.
- > Instruments must be issued prior to Rebalance Day
- > The initial maturity must be at least 18 months and the remaining Effective Time to Maturity must be at least 1 year from the Rebalance Day.
- > Treasury bills, brady bonds, Floating Rate Notes, Inflation-linked Bonds, hybrid and bank capital bonds, securitized bonds, perpetual bonds and sukuks are not eligible.
- > Bonds must not be predominantly retail focused and non-144a private placements are not eligible.
- > Reliable pricing and reference data must be available.
- > When both a REGs and a 144a version of the bond are available, the REGs version will be preferred.



- > For Solactive LCY EM Government 0-1 Year TR Index, all instruments must have an effective TIME TO MATURITY of one year or less but at least one month. Instruments should not mature within the INDEX.
- > The bonds must meet the minimum amount outstanding as shown in the following table for eligible countries as of April 2024. This list may evolve due to the addition or deletion of countries in the Bond Market Classification Framework review <https://www.solactive.com/documents/bond-market-classification-framework/>.

The minimum amount outstanding may change due to technical currency conversion (i.e. currency reform) and will be converted with the corresponding exchange rate.

Country	Ccy	Min. Bond Size	Country	Ccy	Min. Bond Size
Argentina	ARS	400,000,000,000	Malaysia	MYR	3,000,000,000
Brazil	BRL	12,000,000,000	Mexico	MXN	30,000,000,000
Chile	CLP	400,000,000,000	Peru	PEN	1,700,000,000
China	CNY	5,000,000,000	Philippines	PHP	30,000,000,000
Colombia	COP	4,500,000,000,000	Romania	RON	4,000,000,000
Costa Rica	CRC	300,000,000,000	Saudi Arabia	SAR	1,750,000,000
Czech Republic	CZK	30,000,000,000	South Africa	ZAR	20,000,000,000
Dominican Republic	DOP	25,000,000,000	South Korea	KRW	5,000,000,000,000
Hungary	HUF	275,000,000,000	Thailand	THB	30,000,000,000
Iceland	ISK	62,000,000,000	Turkey	TRY	15,000,000,000
India	INR	50,000,000,000	Ukraine	UAH	18,000,000,000
Indonesia	IDR	15,000,000,000,000	Uruguay	UYU	30,000,000,000
Kazakhstan	KZT	250,000,000,000			

(the “INDEX COMPONENT REQUIREMENTS”)]

2.1.1 Eligible Countries

The list of eligible emerging markets is reviewed once a year under the Bond Market Classification Framework. This review is performed in September each year and the results are applicable to the Selection made in May and effective from the first business day in June the following year.

2.1.2 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 Prices, as described in Section 1.4 and accrued interest as of the SELECTION DAY in order to achieve the aim of the Index The weighting of the INDEX COMPONENTS will be as follows:

Some indices within the Index Series may be subject to a cap, where the weight of individual bonds, countries or issuers have upper or lower limits on their weight.

Any capping will be carried out on the business day following each SELECTION DAY, using the market values as of the SELECTION DAY. If a constituent breaches a cap to the upside (downside), its weight will be lowered (raised) until its weight meets the capping constraint, increasing (decreasing) the weight of all the other constituents proportional to their market value weights. This procedure is carried out iteratively until all the capping conditions have been met.

Name	Currency Type	Additional Market	Additional Requirements	Capping
Solactive USD EM Government & Govt Related TR Index	Hard: USD	N/A	N/A	N/A
Solactive EUR EM Government & Govt Related TR Index	Hard: EUR	N/A	N/A	N/A
Solactive LCY EM Government TR Index	Local	N/A	China Issuers are explicitly excluded from the index.	N/A
Solactive LCY EM (incl China) Government TR Index	Local	China	China issuers are included in the index	N/A
Solactive EM USD Govt & Govt Related Bond Select CAD NTR Index	Hard: USD	N/A	Russia and Ukraine non- sovereign issuers are excluded. Countries whose total weight is less than 0.3% of all eligible countries on each annual review of the Bond Market Classification Framework (performed in September and application the following May each year) will be excluded.	Country Weight: Max:7,5%
Solactive EM USD Govt & Govt Related Bond Select CAD Hedged NTR Index	Hard: USD	N/A	Russia and Ukraine non- sovereign issuers are excluded. Countries whose total weight is less than 0.3% of all eligible countries on each annual review of the Bond Market Classification Framework (performed in September and application the following May each year) will be excluded.	Country Weight: Max:7,5%
Solactive EM Local Currency Government Bond Select NTR Index	Local	China with minimum CNY 5 billion bond amount outstanding	Countries whose total weight is less than 0.5% of all eligible countries on each annual review of the Bond Market Classification Framework (performed in September and application the following May each year) will be excluded.	Country Weight: Max: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, Target 2 holidays in Europe, 24th and 31th of December

“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.

“EMERGING COUNTRIES” refers to the countries in the list of emerging countries as determined by Solactive in accordance with the Bond Market Classification Framework. The framework and the country list are available at <https://www.solactive.com/documents/bond-market-classification-framework/>

“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 available under [https://www.solactive.com/documents/bond-pricing provider/](https://www.solactive.com/documents/bond-pricing-provider/)

“REBALANCE DAY” is the last BUSINESS DAY of the month.

“SELECTION DAY” is 6 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 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
2.6	23 May 2024	Country list is updated based on the last bond market classification and with new thresholds. For local currency versions, exclusion list is updated to make it clear.
2.5	25 April 2024	Update to the new format, currency and currency hedged versions are added.
2.4	21 July 2021	Several changes: removal of minimum capping rule, removal of yearly country selection, addition of China to SOLEBLS, update to the country list, index calculation logic change for SOLEHUC, SOLEHUS, SOLEBLS. New index:SOLEBIC

*Prior versions of the guidelines are not considered relevant.

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