

INDEX GUIDELINE

**SOLACTIVE JAPAN MATURITY-BASED GOVERNMENT
BOND INDEX FAMILY**

Version 1.0

27 May 2025



TABLE OF CONTENTS

Introduction	3
1. Index Specifications.....	4
1.1. Scope of the Index.....	4
1.2. Identifiers and Publication	4
1.2.1.Periodic total return indices	4
1.2.2.Leveraged Indices	5
1.3. Initial Level of the Index	6
1.4. Prices and calculation frequency.....	7
2. Index Selection	7
2.1. Selection of the Index Components	7
2.2. Capping factor of the Index Components	8
3. Ordinary Rebalance	8
4. CORPORATE ACTIONS	9
5. Definitions	10
6. History of Index Changes	11
Contact.....	12



INTRODUCTION

This document (the “GUIDELINE”) is to be used as a guideline with regard to the composition, calculation and maintenance of the SOLACTIVE JAPAN MATURITY-BASED 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 Japan Maturity-Based Government Bond Index Family focuses on central government debt issued by Japan, comprising of a single fixed coupon bond. The indices within this family are tailored to specific maturities: 5, 10, and 20-year JGBs. In addition to this, short leveraged indices are calculated based on the 5, 10, and 20-year JGBs indices.

1.2. IDENTIFIERS AND PUBLICATION

The INDEX is comprised of Periodic Total Return Indices UNDERLYING INDICES, and the LEVERAGED INDICES based on the UNDERLYING INDICES.

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/>.

1.2.1. PERIODIC TOTAL RETURN INDICES

Name	ISIN	Currency	Type	Calculation Formula*	RIC
Solactive Japan 5yr Government Bond TR Series A Index	DE000SL0MZS8	JPY	TR	Direct	.SLJP05BA
Solactive Japan 5yr Government Bond TR Series B Index	DE000SL0MZT6	JPY	TR	Direct	.SLJP05BB
Solactive Japan 10yr Government Bond TR Series A Index	DE000SL0MZU4	JPY	TR	Direct	.SLJP10BA
Solactive Japan 10yr Government Bond TR Series B Index	DE000SL0MZV2	JPY	TR	Direct	.SLJP10BB
Solactive Japan 20yr Government Bond TR Series A Index	DE000SL0MZW0	JPY	TR	Direct	.SLJP20BA
Solactive Japan 20yr Government Bond TR Series B Index	DE000SL0MZX8	JPY	TR	Direct	.SLJP20BB



*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/>

1.2.2. LEVERAGED INDICES

Name	ISIN	RIC	BBG ticker	Live Date	Initial Value
Solactive Japan 5yr Government Bond Leveraged Short Index Series A	DE000SL0PTX4	.SLJP05SA	SLJP05SA Index	27/05/2025	10,000
Solactive Japan 5yr Government Bond Leveraged Short Index Series B	DE000SL0PTY2	.SLJP05SB	SLJP05SB Index	27/05/2025	10,000
Solactive Japan 10yr Government Bond Leveraged Short Index Series A	DE000SL0PTZ9	.SLJP10SA	SLJP10SA Index	27/05/2025	10,000
Solactive Japan 10yr Government Bond Leveraged Short Index Series B	DE000SL0QD50	.SLJP10SB	SLJP10SB Index	27/05/2025	10,000
Solactive Japan 20yr Government Bond Leveraged Short Index Series A	DE000SL0QD68	.SLJP20SA	SLJP20SA Index	27/05/2025	10,000
Solactive Japan 20yr Government Bond Leveraged Short Index Series B	DE000SL0QD76	.SLJP20SB	SLJP20SB Index	27/05/2025	10,000

RIC	Underlying Index	Currency	Leverage Factor	Roll Cost	Type
.SLJP05SA	.SLJP05BA	JPY	-5	- 2.5 bps	ER
.SLJP05SB	.SLJP05BB	JPY	-5	- 2.5 bps	ER
.SLJP10SA	.SLJP10BA	JPY	-3	- 5 bps	ER
.SLJP10SB	.SLJP10BB	JPY	-3	- 5 bps	ER
.SLJP20SA	.SLJP20BA	JPY	-2	- 10 bps	ER
.SLJP20SB	.SLJP20BB	JPY	-2	- 10 bps	ER

*ER means that the INDEX is calculated as Excess Return index.



The INDEX FIXING LEVEL on BUSINESS DAY t in respect to a LEVERAGED INDEX is calculated in accordance with the following formula:

$$I_t = \max[I_{t-1} + L * (UL_t - UL_{t-1} - UL_{t-1} * rate_{t-1} * DCF_{t,t-1} - UL_t * RC(t)), 0]$$

where:

I_t = INDEX FIXING LEVEL on BUSINESS DAY t .

I_{t-1} = INDEX FIXING LEVEL on BUSINESS DAY $t-1$.

UL_t = UNDERLYING INDEX's official CLOSING LEVEL at the FIXING TIME on BUSINESS DAY t .

UL_{t-1} = UNDERLYING INDEX's official CLOSING LEVEL at the FIXING TIME on BUSINESS DAY $t-1$.

$rate_{t-1}$ = The Tokyo Overnight Average Rate (RIC: JPONMU=RR) on BUSINESS DAY $t-1$

$DCF_{t,t-1}$ = The number of calendar days between BUSINESS DAY t and BUSINESS DAY $t-1$ divided by 365

L = The Leverage Factor, as defined in the table above.

$$RC(t) = \begin{cases} \frac{\text{Roll Cost}}{\text{Rolling Days}} & \text{if } t \text{ is in the REBALANCE PERIOD} \\ 0 & \text{Otherwise} \end{cases}$$

where:

Roll Cost = Roll cost of the UNDERLYING INDEX as defined in section 1.2.2

Rolling Days = 3

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	RIC	Live Date	Initial Value
Solactive Japan 5yr Government Bond TR Series A Index	.SLJP05BA	27/05/2025	10,000
Solactive Japan 5yr Government Bond TR Series B Index	.SLJP05BB	27/05/2025	10,000
Solactive Japan 10yr Government Bond TR Series A Index	.SLJP10BA	27/05/2025	10,000
Solactive Japan 10yr Government Bond TR Series B Index	.SLJP10BB	27/05/2025	10,000
Solactive Japan 20yr Government Bond TR Series A Index	.SLJP20BA	27/05/2025	10,000
Solactive Japan 20yr Government Bond TR Series B Index	.SLJP20BB	27/05/2025	10,000



1.4. PRICES AND CALCULATION FREQUENCY

The INDEX is calculated and distributed once every BUSINESS DAY based on the PRICING PROVIDER MID PRICE of the INDEX COMPONENTS. Bonds added in a REBALANCE PERIOD (see Section 3) are included the INDEX at the PRICING PROVIDER MID PRICE on the relevant BUSINESS DAY. Bonds which are excluded from the INDEX in a REBALANCE PERIOD are reflected in the calculation of the level of the INDEX at the PRICING PROVIDER MID PRICE on the relevant BUSINESS DAY. INDEX analytics values are calculated each BUSINESS DAY using the PRICING PROVIDER MID PRICE based on FIXING.

2. INDEX SELECTION

Selection is carried only for the UNDERLYING INDICES. On each SELECTION DAY, all bonds which meet the INDEX COMPONENT REQUIREMENTS are eligible for inclusion in the UNDERLYING INDICES and will be fully added as INDEX COMPONENT on the relevant BUSINESS DAY during REBALANCE PERIOD, following the capping factor explained in section 2.2.

Additionally, on each SELECTION DAY, it will be evaluated whether all current INDEX COMPONENTS of the UNDERLYING INDICES still meet the INDEX COMPONENT REQUIREMENTS. Each INDEX COMPONENT that does not meet the INDEX COMPONENT REQUIREMENTS will be removed from the UNDERLYING INDICES during the REBALANCE PERIOD, as explained in section 2.2.

In contrast, LEVERAGED INDICES do not undergo any selection, they are calculated using purely the levels of the UNDERLYING INDICES.

2.1. SELECTION OF THE INDEX COMPONENTS

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

Common pool:

- Only Central Government debt issued by Japan
- Only Fixed Coupon Bonds are eligible.
- Green and Inflation Linked Bonds are excluded.
- Bond must have available prices by the PRICING PROVIDER as of SELECTION DAY.

Index specific:

- SLJP05BA and SLJP05BB:
 - Only 5-year JGBs
 - SLJP05BA: Second to fourth most recent issue
 - SLJP05BB: Fifth to seventh most recent issue
- SLJP10BA and SLJP10BB:
 - Only 10-year JGBs
 - SLJP10BA: Second most recent issue



- SLJP10BB: Third most recent issue
- SLJP20BA and SLJP20BB:
 - Only 20-year JGBs
 - SLJP20BA: Second most recent issue
 - SLJP20BB: Third most recent issue

For clarification, a second most recent is an eligible bond with respect to the common pool and the respective maturity series such that the issue date is the second closest to the SELECTION DAY.

(the “**INDEX COMPONENT REQUIREMENTS**“)]

The determination of the INDEX COMPONENTS is fully rule-based and the INDEX ADMINISTRATOR has no discretion.

2.2. CAPPING FACTOR OF THE INDEX COMPONENTS

On any BUSINESS DAY that does not fall on a REBALANCE PERIOD, the Capping Factor (as defined in the Bond Index Methodology) for each index component is set to 1.

During the REBALANCE PERIOD, bonds that are being included or excluded from the index composition (as determined on the SELECTION DAY, in accordance with Section 2.1) will gradually enter or exit the index composition by increasing or decreasing their Capping Factor:

- On the FIRST REBALANCE DAY, entering bonds will have a Capping Factor of 1/3, and exiting bonds will have a Capping Factor of 2/3.
- On the SECOND REBALANCE DAY, entering bonds will have a Capping Factor of 2/3, and exiting bonds will have a Capping Factor of 1/3.
- On the THIRD REBALANCE DAY, entering bonds will have a Capping Factor of 1, and exiting bonds will have a Capping Factor of 0.

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 each BUSINESS DAY of the REBALANCE PERIOD 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 any weekday where the exchange XTKS “TOKYO STOCK EXCHANGE” identified by its MIC is open for business.

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

“CLOSING LEVEL” in respect of an UNDERLYING INDEX and a BUSINESS DAY is an index's final level published by SOLACTIVE.

“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.

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

“LEVERAGED INDEX” means, in respect of each INDEX, as defined in Section 1.2.2.

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

“PRICING PROVIDER” is the Japan Securities Dealers Association (JSDA).

“FIRST REBALANCE DAY” is the BUSINESS DAY that falls three BUSINESS DAYS before the last BUSINESS DAY of January, April, July, and October.

“SECOND REBALANCE DAY” is the BUSINESS DAY immediately following the FIRST REBALANCE DAY.

“THIRD REBALANCE DAY” is the BUSINESS DAY immediately following the SECOND REBALANCE DAY.

“SELECTION DAY” is one BUSINESS DAY before the FIRST REBALANCE DAY.

“REBALANCE PERIOD” is any BUSINESS DAY between the FIRST REBALANCE DAY (included) and the THIRD REBALANCE DAY (included).

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

“UNDERLYING INDEX” means, in respect of each INDEX, as defined in Section 1.2.1.

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	27 May 2025	Index Guideline creation (<i>initial version</i>)

CONTACT

Solactive AG
German Index Engineering
Platz der Einheit 1
60327 Frankfurt am Main
Germany

Tel.: +49 (0) 69 719 160 00
Fax: +49 (0) 69 719 160 25
Email: info@solactive.com
Website: www.solactive.com

© Solactive AG