

# INDEX GUIDELINE

SOLACTIVE BBVA EUA CARBON FUTURES INDEX

Version 1.0

12 April 2023



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## INTRODUCTION

This document (the "**GUIDELINE**") is to be used as a guideline with regard to the composition, calculation and maintenance Solactive BBVA EUA Carbon Futures Index (the "Index"). Any amendments to the rules made to the GUIDELINE are approved by the OVERSIGHT COMMITTEE specified in Section 5.5. 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 text uses defined terms which are formatted with "SMALL CAPS". Such Terms shall have the meaning assigned to them as specified in Section 6 (Definitions).*

**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 – 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.**

*The Index is not calculated, sponsored, administered or published by Banco Bilbao Vizcaya Argentaria, S.A. ("BBVA") nor does BBVA act as an administrator or a contributor of the Index nor does BBVA offer any express or implicit guarantee or assurance with regard to the calculation, publication or results of using the Index and/or Index trade mark or the Index Price at any time or in any other respect. The Index is solely calculated, administered and published by Solactive AG. For the avoidance of doubt, there is no corporate ownership relationship between Solactive AG and BBVA, being independent companies, and BBVA will not be responsible for the Index in any case.*



# 1. INDEX SPECIFICATIONS

## 1.1. SCOPE OF THE INDEX

| Category            | Description   |
|---------------------|---|
| Asset Class         | The INDEX tracks the performance of the Intercontinental Exchange (ICE) December month EUA Carbon future (RIC: CFI2Z, BBG: MOZ) and rolls the exposure over 10 days from the FRONT CONTRACT into the BACK CONTRACT. |
| Strategy            | Representation of a rolling exposure to EUA Carbon Futures  |
| Regional Allocation | EU  |

## 1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

| Name                                    | ISIN         | Currency | Type | RIC       | BBG ticker     |
|---|--------------|----------|------|-----------|----------------|
| Solactive BBVA EUA Carbon Futures Index | DE000SLOJXU5 | EUR      | ER   | .SBVEUACF | SBVEUACF Index |

ER\* means the index is calculated as excess return. Please see section 4.1

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 INDEX on the 02/01/2013, the START DATE, is 100. Historical values from the XX/XX/2023, the LIVE DATE, will be recorded in accordance with Article 8 of the BMR. Levels of the INDEX published for a period prior to the LIVE DATE have been back-tested.



## 1.4. PRICES AND CALCULATION FREQUENCY

The level of the INDEX is calculated and distributed once on each CALCULATION DAY based on the SETTLEMENT PRICES on the respective EXCHANGES on which the INDEX COMPONENTS are listed. The most recent SETTLEMENT PRICES of all INDEX COMPONENTS are used. Should there be no current SETTLEMENT PRICE available, the most recent SETTLEMENT PRICE on Intercontinental Exchange ("ICE") for the preceding TRADING DAY is used in the calculation. The INDEX is calculated once a Business Day at 7:50pm, CET. In the event that data cannot be provided to the pricing services of Boerse Stuttgart GmbH, the INDEX cannot be distributed and is only available via the website of the INDEX ADMINISTRATOR.

## 1.5. LICENSING

Licenses to use the INDEX as the underlying value for financial instruments, investment funds and financial contracts may be issued to stock exchanges, banks, financial services providers and investment houses by SOLACTIVE



## 2. INDEX SELECTION

INDEX COMPONENTS are selected according to the ROLL PERIOD specified in Section 2.1 and in accordance with the ROLL SCHEDULE defined in Section 2.2.

### 2.1. ROLL SCHEDULE

During the ROLL PERIOD, the BACK CONTRACT is rolled over a ten-day period into the FRONT CONTRACT. The ROLL PERIOD starts on the 11th CALCULATION DAY in November. The CONTRACT ROLL WEIGHT of the FRONT CONTRACT is then decreased by one tenth after the CLOSE OF BUSINESS of each CALCULATION DAY of the ROLL PERIOD starting at 100% while the CONTRACT ROLL WEIGHT of the BACK CONTRACT is increased by one tenth after the CLOSE OF BUSINESS of each CALCULATION DAY of the ROLL PERIOD starting at 0%. After the end of the ROLL PERIOD the BACK CONTRACT becomes the new FRONT CONTRACT. The ROLL SCHEDULE is listed in the following Section 2.2

### 2.2. ROLL SCHEDULE

The FRONT CONTRACT and the BACK CONTRACT are selected based on the current/next month as follows:

#### FRONT CONTRACT:

|                |   |   |   |   |   |   |   |   |   |    |    |    |
|----------------|---|---|---|---|---|---|---|---|---|----|----|----|
| Contract/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| AUL            | Z | Z | Z | Z | Z | Z | Z | Z | Z | Z  | Z  | Z+ |

#### BACK CONTRACT:

|                |   |   |   |   |   |   |   |   |   |    |    |    |
|----------------|---|---|---|---|---|---|---|---|---|----|----|----|
| Contract/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| AUL            | Z | Z | Z | Z | Z | Z | Z | Z | Z | Z  | Z+ | Z+ |

A "+" defines a contract of the following year.

The following naming convention of the contracts holds:

| Identifier | Month    | Identifier | Month     |
|------------|----------|------------|-----------|
| F          | January  | N          | July      |
| G          | February | Q          | August    |
| H          | March    | U          | September |
| J          | April    | V          | October   |



|   |      |   |          |
|---|------|---|----------|
| K | May  | X | November |
| M | June | Z | December |

## 2.3. INDEX FORMULA

The INDEX for any CALCULATION DAY  $t$ , denoted  $Index_t$ , is determined in accordance with the following formula, where  $Index_0 = 100$ :

$$Index_t = Index_{t-1} + IndexRet_{R,t} * Index_R$$

With:

$Index_{t-1}$  = the level of the INDEX as of CALCULATION DAY  $t-1$

$Index_R$  = level of the INDEX as of the REBALANCING DAY immediately preceding CALCULATION DAY  $t$

$IndexRet_{R,t}$  = return of the INDEX from the REBALANCING DAY immediately preceding CALCULATION DAY  $t$  up to CALCULATION DAY  $t$

With:

$$IndexRet_{R,t} = RetFront_t * RollWeightFront_t + RetBack_t * RollWeightBack_t$$

Where;

$$RetFront_t = \frac{P_t^{front} - P_{t-1}^{front}}{P_R^{front}}$$

$$RetBack_t = \frac{P_t^{back} - P_{t-1}^{back}}{P_R^{back}}$$

With:

$P_t^{front}$ : Price of the front futures contract as of CALCULATION DAY  $t$

$P_{t-1}^{front}$ : Price of the front futures contract as of CALCULATION DAY  $t-1$

$P_R^{front}$ : Price of the front futures contract as of the REBALANCING DAY immediately preceding CALCULATION DAY  $t$

$P_t^{back}$ : Price of the back futures contract as of CALCULATION DAY  $t$

$P_{t-1}^{back}$ : Price of the back futures contract as of CALCULATION DAY  $t-1$



$P_R^{back}$ : Price of the back futures contract as of the REBALANCING DAY immediately preceding CALCULATION DAY t

$RollWeightFront_t$ : the roll out weight of the front futures contract as of CALCULATION DAY t

$RollWeightBack_t$ : the roll in weight of the back futures contract as of CALCULATION DAY t

Before the beginning of the ROLL PERIOD, the  $RollWeightFront_t$  equals 100%

On each CALCULATION DAY of the ROLL PERIOD, the  $RollWeightFront_t$  is decreased by 10% compared to  $RollWeightFront_{t-1}$  until it reaches 0% and the roll is completed.

The  $RollWeightBack_t$  is calculated as:

$$RollWeightBack_t = 100\% - RollWeightFront_t$$

After the ROLL PERIOD, the back contract becomes the new front contract, and the back contract is updated according to Section 2.2.

The number of contracts for the front and back contracts are calculated as follows:

$$CarbonMT\_ContractFront_t = Index_{R-1} * RollWeightFront_t / P_R^{front}$$

$$CarbonMT\_ContractBack_t = Index_{R-1} * RollWeightBack_t / P_R^{back}$$

Where:

$Index_{R-1}$ : The level of the INDEX as of the CALCULATION DAY immediately preceding REBALANCING DAY R by one CALCULATION DAY.

## 2.4. ACCURACY

The level of the INDEX will be rounded to 4 decimal places. TRADING PRICES and foreign exchange rates will be rounded to six decimal places.

## 2.5. ADJUSTMENTS

Under certain circumstances, an adjustment of the INDEX may be necessary between two regular REBALANCE DAYS. Such adjustment has to be made if a corporate action (as specified in Section 4.4 below) in relation of





an INDEX COMPONENT occurs. Such adjustment may have to be done in relation to an INDEX COMPONENT and/or may also affect the number of INDEX COMPONENTS and/or the weighting of certain INDEX COMPONENTS and will be made in compliance with the SOLACTIVE Equity Index Methodology, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>.

SOLACTIVE will announce the INDEX adjustment giving a notice period of at least two TRADING DAYS (with respect to the affected INDEX COMPONENT) on the SOLACTIVE website under the Section “Announcements”, which is available at <https://www.solactive.com/news/announcements/>. The INDEX adjustments will be implemented on the effective day specified in the respective notice.

## 2.6. 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. Corporate actions will be implemented from the cum-day to the ex-day of the corporate action, so that the adjustment to the INDEX coincides with the occurrence of the price effect of the respective corporate action.

Adjustments to the INDEX to account for corporate actions will be made in compliance with the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>. This document contains for each corporate action a brief definition and specifies the relevant adjustment to the INDEX variables.

While SOLACTIVE aims at creating and maintaining its methodology for the treatment of corporate actions as generic and transparent as possible and in line with regulatory requirements, it retains the right in accordance with the Equity Index Methodology to deviate from these standard procedures in case of any unusual or complex corporate action or if such a deviation is made to preserve the comparability and representativeness of the INDEX over time.

SOLACTIVE considers the following, but not conclusive, list of corporate actions as relevant for the BASKET maintenance:

- > Cash Distributions (e.g. payment of a dividend)
- > Stock distributions (e.g. payment of a dividend in form of additional shares)
- > Stock distributions of another company (e.g. payment of a dividend in form of additional shares of another company (e.g. of a subsidiary))
- > Share splits (company’s present shares are divided and therefore multiplied by a given factor)
- > Reverse splits (company’s present shares are effectively merged)
- > Capital increases (such as issuing additional shares)
- > Share repurchases (a company offer its shareholders the option to sell their shares to a fixed price)



- > Spin-offs (the company splits its business activities into two or more entities and distributes new equity shares in the created entities to the shareholders of the former entity)
- > Mergers & Acquisitions (transaction in which the ownership of a company (or other business organizations) are transferred or consolidated with other entities, e.g. fusion of two or more separate companies into one entity)
- > Delistings (company's shares are no longer publicly traded at a stock exchange)
- > Nationalization of a company (effective control of a legal entity is taken over by a state)
- > Insolvency

## 2.7. RECALCULATION

SOLACTIVE makes the greatest possible efforts to accurately calculate and maintain its indices. However, errors in the determination process may occur from time to time for variety reasons (internal or external) and therefore, cannot be completely ruled out. SOLACTIVE endeavors to correct all errors that have been identified within a reasonable period of time. The understanding of "a reasonable period of time" as well as the general measures to be taken are generally depending on the underlying and is specified in the SOLACTIVE Correction Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/correction-policy/>.

## 2.8. MARKET DISRUPTION

In periods of market stress SOLACTIVE calculates its indices following predefined and exhaustive arrangements as described in the SOLACTIVE Disruption Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/disruption-policy/>. Such market stress can arise due to a variety of reasons, but generally results in inaccurate or delayed prices for one or more INDEX COMPONENTS. The determination of the INDEX may be limited or impaired at times of illiquid or fragmented markets and market stress.



## 3. MISCELLANEOUS

### 3.1. DISCRETION

Any discretion which may need to be exercised in relation to the determination of the INDEX (for example the determination of the INDEX UNIVERSE (if applicable), the selection of the INDEX COMPONENTS (if applicable) or any other relevant decisions in relation to the INDEX) shall be made in accordance with strict rules regarding the exercise of discretion or expert judgement.

### 3.2. METHODOLOGY REVIEW

The methodology of the INDEX is subject to regular review, at least annually. In case a need of a change of the methodology has been identified within such review (e.g. if the underlying market or economic reality has changed since the launch of the INDEX, i.e. if the present methodology is based on obsolete assumptions and factors and no longer reflects the reality as accurately, reliably and appropriately as before), such change will be made in accordance with the SOLACTIVE Methodology Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.

Such change in the methodology will be announced on the SOLACTIVE website under the Section Announcements, which is available at <https://www.solactive.com/news/announcements/>. The date of the last amendment of this INDEX is contained in this GUIDELINE.

### 3.3. CHANGES IN CALCULATION METHOD

The application by the INDEX ADMINISTRATOR of the method described in this document is final and binding. The INDEX ADMINISTRATOR shall apply the method described above for the composition and calculation of the INDEX. However, it cannot be excluded that the market environment, supervisory, legal and financial or tax reasons may require changes to be made to this method. The INDEX ADMINISTRATOR may also make changes to the terms and conditions of the INDEX and the method applied to calculate the INDEX that it deems to be necessary and desirable in order to prevent obvious or demonstrable error or to remedy, correct or supplement incorrect terms and conditions. The INDEX ADMINISTRATOR is not obliged to provide information on any such modifications or changes. Despite the modifications and changes, the INDEX ADMINISTRATOR will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.



### 3.4. TERMINATION

SOLACTIVE makes the greatest possible efforts to ensure the resilience and continued integrity of its indices over time. Where necessary, SOLACTIVE follows a clearly defined and transparent procedure to adapt Index methodologies to changing underlying markets (see Section 5.2 "Methodology Review") in order to maintain continued reliability and comparability of the indices. Nevertheless, if no other options are available the orderly cessation of the INDEX may be indicated. This is usually the case when the underlying market or economic reality, which an index is set to measure or to reflect, changes substantially and in a way not foreseeable at the time of inception of the index, the index rules, and particularly the selection criteria, can no longer be applied coherently or the index is no longer used as the underlying value for financial instruments, investment funds and financial contracts.

SOLACTIVE has established and maintains clear guidelines on how to identify situations in which the cessation of an index is unavoidable, how stakeholders are to be informed and consulted and the procedures to be followed for a termination or the transition to an alternative index. Details are specified in the SOLACTIVE Termination Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/termination-policy/>.

### 3.5. OVERSIGHT

An oversight committee composed of staff from SOLACTIVE and its subsidiaries (the "**OVERSIGHT COMMITTEE**") is responsible for decisions regarding any amendments to the rules of the INDEX. Any such amendment, which may result in an amendment of the GUIDELINE, must be submitted to the OVERSIGHT COMMITTEE for prior approval and will be made in compliance with the Methodology Policy, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.



## 4. DEFINITIONS

“**BACK CONTRACT**” shall have the meaning as defined in Section 2.1 and 2.2

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

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

“**CALCULATION DAY**” is a day on which the ICE Endex is open for trading in Carbon emission futures (MIC NDEX).

“**CLOSE OF BUSINESS**” is the calculation time of the closing level of the INDEX as outlined in Section 1.4.

“**EXCHANGE**” is with respect to the INDEX and every INDEX COMPONENT, the respective exchange where the INDEX COMPONENT has its listing, namely the ICE Endex (MIC: NDEX) .

“**FRONT CONTRACT**” shall have the meaning as defined in Section 2.1 and 2.2

“**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 COMPONENT**” shall have the meaning as defined in Section 2.1 and 2.2.

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

“**LIVE DATE**” shall have the meaning as defined in Section 1.3.

“**OVERSIGHT COMMITTEE**” shall have the meaning as defined in Section 5.5.

“**REBALANCE DAY**” is one CALCULATION DAY prior to the ROLL START DAY

“**ROLL PERIOD**” is the period of 10 consecutive CALCULATION DAYS following the ROLL START DAY

“**ROLL START DAY**” is the 10<sup>th</sup> CALCULATION DAY in November

“**SETTLEMENT PRICE**” in respect of an INDEX COMPONENT and a CALCULATION DAY is the average price, at which the FRONT CONTRACT or BACK CONTRACT trades, calculated at the close of each CALCULATION DAY by the EXCHANGE.

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

“**START DATE**” shall have the meaning as defined in Section 1.3.

# 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](mailto:info@solactive.com)

Website: [www.solactive.com](http://www.solactive.com)

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