

INDEX GUIDELINE

Solactive European Carbon Credit Market Index

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 European Carbon Credit Market Index (the "**INDEX**"). Any amendments to the rules made to the Guideline are approved by the Index Committee specified in Section 4.5. The Index is calculated, administrated and published by Solactive AG ("**SOLACTIVE**") assuming the role as index 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 5 (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**.



1. INDEX SPECIFICATIONS

1.1. SCOPE OF THE INDEX

The INDEX tracks the performance of the ICE EUA (Carbon Emission Allowances) futures contract and rolls the exposure over ten days from the ACTIVE CONTRACT into the NEXT ACTIVE CONTRACT.

1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	RIC
Solactive European Carbon Credit Market Index	DE000SLOFWE9	EUR	ER	.SOC02EUE
Solactive European Carbon Credit Market Index	DE000SLOFW50	EUR	TR	.SOC02EUT

ER*TR* means the Index is calculated as Excess Return and Total Return.

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

The initial level of the INDEX on the START DATE is 1000. Historical values from 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 TRADING 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 every BUSINESS DAY from 8:00 am CET to 06:45 pm 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 PERIOD

During the ROLL PERIOD, the ACTIVE CONTRACT is rolled over a ten-day period into the NEXT ACTIVE CONTRACT. The ROLL PERIOD starts on the 10th Business Day of November, provided such a day is a TRADING DAY, otherwise the first TRADING DAY following after. The CONTRACT ROLL WEIGHT of the ACTIVE CONTRACT is then decreased by 10% after the CLOSE OF BUSINESS of each TRADING DAY of the ROLL PERIOD starting at 100% while the CONTRACT ROLL WEIGHT of the NEXT ACTIVE CONTRACT is increased by 10% after the CLOSE OF BUSINESS of each TRADING DAY of the ROLL PERIOD starting at 0%. After the end of the ROLL PERIOD the NEXT ACTIVE CONTRACT becomes the ACTIVE CONTRACT. The ROLL SCHEDULE is listed in the following Section 2.2

2.2. ROLL SCHEDULE

The ACTIVE CONTRACT and the NEXT ACTIVE CONTRACT are selected based on the current/next month as follows:

ACTIVE CONTRACT:

Contract/Month	1	2	3	4	5	6	7	8	9	10	11	12
CFI2	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z+	Z+

NEXT ACTIVE CONTRACT:

Contract/Month	1	2	3	4	5	6	7	8	9	10	11	12
CFI2	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
Z	December



2.3. WEIGHTING OF THE INDEX COMPONENTS

The Weighting of the futures in the INDEX is done as described in Section 2.1.



3. CALCULATION OF THE INDEX

3.1. EXCESS RETURN INDEX FORMULA

The level of the EXCESS RETURN INDEX on any given TRADING DAY t is calculated in accordance with the following formula:

$$TR_t = TR_{t-1} \cdot \left(\frac{ER_t}{ER_{t-1}} + [Rf_{t-1} * Act360(t, t-1)] \right)$$

$$ER_t = ER_{t-1} \cdot \left(\frac{CRW_{A,t} \cdot SP_{A,t}}{SP_{A,t-1}} + \frac{CRW_{NA,t} \cdot SP_{NA,t}}{SP_{NA,t-1}} \right)$$

where:

ER_{t-1} is the EXCESS RETURN INDEX Level on the TRADING DAY immediately preceding TRADING DAY t .

TR_{t-1} is the TOTAL RETURN INDEX Level on the TRADING DAY immediately preceding TRADING DAY t .

$CRW_{A,t}$ is the CONTRACT ROLL WEIGHT of the ACTIVE CONTRACT on TRADING DAY t .

$CRW_{NA,t}$ is the CONTRACT ROLL WEIGHT of the NEXT ACTIVE CONTRACT on TRADING DAY t .

$SP_{A,t}$ is the SETTLEMENT PRICE of the ACTIVE CONTRACT on TRADING DAY t .

$SP_{NA,t}$ is the SETTLEMENT PRICE of the NEXT ACTIVE CONTRACT on TRADING DAY t .

Rf_t is the RATE for the EURO SHORT TERM RATE (RIC: EUROSTER=) as of TRADING DAY t . For the dates before the 29th October 2019, We have used EONIA (RIC: EONIA=) minus 0.085%.

$Act360(y, x)$ is the number of calendar days between business day y and business day x divided by 360.



If at any time during the day the valuation of the INDEX equals zero or lower, the INDEX level becomes zero and it will be terminated with immediate effect.

3.2. ACCURACY

The level of the INDEX will be rounded to 4 decimal places.

3.3. 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/>.

3.4. 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.



4. MISCELLANEOUS

4.1. 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.

4.2. 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 "[Announcement](https://www.solactive.com/news/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.

4.3. 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.



4.4. 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/>.

4.5. 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/>.



5. DEFINITIONS

“ACTIVE CONTRACT” means the contract given in the ROLL SCHEDULE under Section 2.2.

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

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

“BUSINESS DAY” is a weekday from Monday to Friday, on which the EXCHANGE is open for general business.

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

“CONTRACT ROLL WEIGHT” means the target weight described in the Section 2.1.

“EXCHANGE” means Intercontinental Exchange (ICE), MIC: IFEU.

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

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

“EXCESS RETURN INDEX” shall have the meaning as defined in Section 3.1.

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

“INDEX COMPONENT” is each contract currently reflected in the INDEX.

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

“LIVE DATE” is 27th May 2022.

“NEXT ACTIVE CONTRACT” means the contract given in the ROLL SCHEDULE under Section 2.2.

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

“ROLL PERIOD” means the number of TRADING DAYS as specified in Section 2.1.

“ROLL SCHEDULE” means the schedule for ACTIVE CONTRACT and NEXT ACTIVE CONTRACT Selection as defined in Section 2.2.

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

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

“START DATE” is 5th January 2018.

“TOTAL RETURN INDEX” shall have the meaning as defined in Section 3.2. TOTAL RETURN INDEX calculation is provided for illustration purposes.

“TRADING DAY” is in respect of the INDEX and an INDEX COMPONENT 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 normal EXCHANGE closing time. The INDEX



ADMINISTRATOR is ultimately responsible as to whether a certain day is a TRADING DAY with regard to the INDEX or an INDEX COMPONENT or in any other connection relating to this document.

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