

# INDEX GUIDELINE

SOLACTIVE E-MINI SPX ROLLING FUTURES EUROPE CLOSE 2  
INDEX

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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 E-mini SPX Rolling Futures Europe Close Index (the “INDEX”). Any amendments to the rules made to the GUIDELINE are approved by the OVERSIGHT COMMITTEE specified in Section 3.5. The INDEX is 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.



# 1. INDEX SPECIFICATIONS

## 1.1. SCOPE OF THE INDEX

The INDEX aims to track the E-Mini S&P 500 Future Index during Closing Time of the London Stock Exchange. The INDEX subtracts the time weighted average BTICs (on E-Mini S&P500 Future Index) from the time weighted average prices – between TWAP START TIME and TWAP END TIME – of E-Mini S&P500 Future Index.

## 1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	RIC	BBG ticker
Solactive E-Mini SPX Rolling Futures Europe Close 2 Index	DE000SL0Q150	USD	.SPEUCL2	SPEUCL2 Index

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 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 2021-03-24, the START DATE, is 3933.33. Historical values from the 2025-07-02, 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 from the START DATE.

## 1.4. PRICES AND CALCULATION FREQUENCY

The level of the INDEX is calculated and distributed on each INDEX BUSINESS DAY based on the TRADING PRICES on the EXCHANGES on which the INDEX COMPONENTS are listed. Should there be no current TRADING PRICE for an INDEX COMPONENT, the INDEX cannot be calculated and distributed. Please refer to Section 2.6. for further information on how a Market Disruption event will be treated. The level of the INDEX is calculated and distributed for each INDEX BUSINESS DAY latest by 17:45 CET on the same day, based on the TRADING PRICES of the INDEX COMPONENTS from the INDEX BUSINESS DAY. 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. CALCULATION OF THE INDEX

### 2.1. INDEX COMPONENTS

The INDEX is composed of the following two underlying (each of them an UNDERLYING COMPONENT, together the INDEX COMPONENTS)

Component	Name	RIC	BBG Ticker	Exchange
1	E-Mini S&P 500 Future	0#ES:	ESA Index	CME
2	BTIC on E-Mini S&P 500 Stock Price Index	0#SET:	STE A Index	CME

### 2.2. INDEX FORMULA

The level of the INDEX is calculated according to the following formula:

$$IL_t = TWAP_t^{E-Mini\ S\&P\ 500} - TWAP_t^{BTIC^{E-Mini\ S\&P\ 500}}$$

Where:

$IL_t$  the level of the INDEX as of INDEX BUSINESS DAY t.

$TWAP_t^{E-Mini\ S\&P\ 500}$  the TWAP of the ACTIVE CONTRACT as of INDEX BUSINESS DAY t

$TWAP_t^{BTIC^{E-Mini\ S\&P\ 500}}$  the TWAP of the BTIC for the ACTIVE CONTRACT as of INDEX BUSINESS DAY t

The ACTIVE CONTRACT as of INDEX BUSINESS DAY t is defined as:

If INDEX BUSINESS DAY t is prior to the expiry of the front month contract of the E-Mini S&P 500 Future, the ACTIVE CONTRACT is the front month contract of the E-Mini S&P 500 Future.

If INDEX BUSINESS DAY t falls on expiry of the front month contract of the E-Mini S&P 500 Future, the ACTIVE CONTRACT is the next month contract.



## 2.3. TWAP CALCULATION

Each regular FIRST PRICE TICK in a TIME WINDOW  $k$ , which arrives between the TWAP START TIME and TWAP END TIME will be used in the calculation of the respective TWAP as of INDEX BUSINESS DAY  $t$ . A regular FIRST PRICE TICK is a tick, which is associated with an executed REGULAR TRADE.

Let  $N$  denote the number of FIRST PRICE TICK, then the TWAP as of INDEX BUSINESS DAY  $t$  is calculated according to following formula:

$$TWAP_t = \frac{\sum_{k=1}^N FPT_k}{N}$$

Where:

$FPT_k$  denotes the FIRST PRICE TICK in TIME WINDOW ( $k$ )

“FIRST PRICE TICK”, shall mean the first trading price in any given TWAP WINDOW.

“TWAP GRID”, shall mean in respect of an integer “ $k$ ”, the time of day which is  $k$  multiplied by 20 seconds starting at TWAP START TIME.

“TWAP WINDOW ( $k$ )”, shall mean each interval from (including) the TIME GRID  $k-1$  to (excluding) the TIME GRID  $k$ , where “ $k$ ” is each integer from 1 to 15.

If no PRICE TICK of the BTIC is available within any TIME WINDOW ( $k$ ) for  $k$  from 1 to 15, then the most recent tick prior to the TIME WINDOW (1) shall be used as the sole input for TWAP calculation.

For the backtest, 5-second aggregated BTIC ticks of the ACTIVE CONTRACT as of INDEX BUSINESS DAY  $t$  were used.

## 2.4. ACCURACY

The level of the INDEX will be rounded to 2 decimal places.

## 2.5. 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. 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/>.



## 2.6. MARKET DISRUPTION

In case UNDERLYING COMPONENT – (ESA Index) – is affected by a MARKET CLOSURE or TRADING HALT anytime during the TWAP WINDOW such a day will be treated as a MARKET DISRUPTION DAY and the level of the INDEX will not be published by SOLACTIVE.

In case UNDERLYING COMPONENT – (STEAM Index) – is affected by a MARKET CLOSURE or TRADING HALT anytime during the TWAP WINDOW, and the fallback logic cannot be applied, such a day will be treated as a MARKET DISRUPTION DAY and the level of the INDEX will not be published by SOLACTIVE.

## 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:

<https://www.solactive.com/documents/methodology-policy/>.

Such change in the methodology will be announced on the SOLACTIVE website under the Section “[Announcement](#)”, 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 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”) 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](https://www.solactive.com/documents/methodology-policy/) Policy, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.



## 4. DEFINITIONS

“ACTIVE CONTRACT” shall have the meaning as defined in 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 any day on which New York Stock Exchange (NYSE) and CBOT Financial Contracts (Floor Trading) Exchange (FCBT-CME) are open for general business.

“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 as determined in accordance with the rules in Section 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 BUSINESS DAY” shall mean every weekday, on which New York Stock Exchange (XNYS) is open for general business.

“INDEX COMPONENTS” is the universe comprising of UNDERLYING COMPONENT(s), as defined in Section 2.1.

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

“INDEX UNIVERSE” is defined as the INDEX COMPONENTS, as outlined in Section 2.1.

“FIRST PRICE TICK” shall have the meaning as defined in section 2.3.

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

“MARKET CLOSURE”, affects not only a single INDEX component but the whole market or segments of the market. MARKET CLOSURES can be further divided into planned and unplanned MARKET CLOSURES. The former refers mainly to days on which the relevant exchange is not open for trading as scheduled, while the latter may occur unplanned due to a variety of reasons, inter alia, including: a systems failure, a natural or man-made disaster, an armed conflict, an act of terrorism, a riot or labor disruption or any similar intervening circumstances.

With respect to the maintenance and calculation of its indices, SOLACTIVE sets out different treatments for unplanned MARKET CLOSURES without taking their reasons into account. Any planned MARKET CLOSURES do not fall within the scope of this policy; their respective treatment, if any, is defined at the level of the individual Indices in their relevant INDEX guidelines.

“MARKET DISRUPTION DAY” shall have the meaning as defined in Section 2.6.

“OVERSIGHT COMMITTEE” shall have the meaning as defined in Section 3.5.

“REGULAR TRADE” is any Trade not associated with a cancelled Trade and has a volume greater than zero.

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

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



“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 INDEX BUSINESS 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 HALT” is any situation in which the trading of an individual INDEX COMPONENT is intentionally halted, or the INDEX COMPONENT is suspended from trading for a period. Such a TRADING HALT may occur for a variety of reasons, depending on the jurisdiction, the stock exchange, and the relevant security. It may be ordered by a supervisory authority based on its statutory powers (e.g., the SEC orders a trading suspension according to Section 12(k) of the Securities Exchange Act 1934) or the management of an exchange (e.g., in accordance with Section 25 of the German Stock Exchange Act (Börsengesetz), or in accordance with their individual stock exchange rules).

The “TRADING PRICE” 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.

“TWAP START TIME” shall mean 16:25 UK Time.

“TWAP END TIME” shall mean 16:30 UK Time.

“TWAP GRID” shall have the meaning as defined in section 2.3.

“TWAP WINDOW” shall have the meaning as defined in section 2.3.

“UNDERLYING COMPONENT” are the components listed in Section 2.1, together known as the “INDEX COMPONENTS”.

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