

GUIDELINE

Solactive European Equity Index

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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive European Equity Index (the “Index”). Solactive AG shall make every effort to implement regulations. Solactive AG does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the Index nor the Index value at any certain point in time nor in any other respect. The Index is merely calculated and published by Solactive AG and it strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for Solactive AG – 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 AG is no

recommendation for capital investment and does not contain any assurance or opinion of Solactive AG regarding a possible investment in a financial instrument based on this Index.

Introduction

This document is to be used as a guideline with regard to the composition, calculation and management of the Index. Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Index is calculated and published by Solactive AG. The name “Solactive” is trademarked.

1 Index specifications

The Solactive European Equity Index (the “Index”) is an Index of Solactive AG, calculated and distributed by Solactive AG.

The Solactive European Equity Index tracks the performance of a selection of the top 100 shares from European developed markets. The selection model filters the shares according to a liquidity threshold of EUR 10 million 6-month ADV and includes subsequently the top ranked shares based on free-float adjusted market capitalization.

The Index is calculated in a PR, NTR and GTR version.

The Index is published in EUR.

1.1 Short name and ISIN

The Index is distributed under the following identifiers:

Index Name	Index ISIN	Index Ticker	Index RIC	Index Type
Solactive European Equity Index PR	DE000SLA3V13	TGLOTEET Index	.TEET	Price Return
Solactive European Equity Index NTR	DE000SLA3S26	TGLOTENR Index	.TEETNR	Net Total Return
Solactive European Equity Index GTR	DE000SLA3V21	TGLOTETR Index	.TEETTR	Gross Total Return

1.2 Initial value

The Index is based on 2500 at the close of trading on the start date, October 1st, 2014.

1.3 Distribution

The Index is published via the price marketing services of Boerse Stuttgart AG and is distributed to all affiliated vendors. Each vendor decides on an individual basis as to whether he will distribute/display the Index via his information systems.

1.4 Prices and calculation frequency

The price of the Index is calculated on each Business Day based on the prices on the respective Exchanges on which the Index Components are listed. The most recent prices of all Index Components are used. Prices of Index Components not listed in the Index Currency are translated using spot foreign exchange rates quoted by Reuters. Should there be no current price available on Reuters, the most recent price or the Trading Price on Reuters for the preceding Trading Day is used in the calculation.

The Index is calculated every Business Day from 9:00am to 10:30pm, CET. In the event that data cannot be provided to Reuters or to the pricing services of Boerse Stuttgart AG the Index cannot be distributed.

1.5 Weighting

Five Business Days before each Adjustment Day each Index Component of the Index is equally weighted.

1.6 Decision-making bodies

A Committee composed of staff from Solactive AG is responsible for decisions regarding the composition of the Index as well as any amendments to the rules (in this document referred to as the "Committee" or the "Index Committee"). The future composition of the Index is determined by the Committee on the Selection Days according to the procedure outlined in 2.1 of this document. The Committee shall also decide about the future composition of the Index in the event that any Extraordinary Events should occur and the implementation of any necessary adjustments.

Members of the Committee can recommend changes to the guideline and submit them to the Committee for approval.

1.7 Publication

All specifications and information relevant for calculating the Index are made available on the <http://www.solactive.de> web page and sub-pages.

1.8 Historical data

Historical data will be maintained from the launch of the Index on October 1st, 2014.

1.9 Licensing

Licences to use the Index as the underlying value for derivative instruments are issued to stock exchanges, banks, financial services providers and investment houses by Solactive AG.

2 Composition of the Index

2.1 Selection of the Index Components

The initial composition of the Index as well as any ongoing adjustment is based on the following rules:

On the Selection Days, Solactive AG selects the index composition following the procedure described below.

Starting with a FactSet Universal Screening:

- Screen for securities that have a primary listing in one of the following countries: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.
- Filter out any shares which are not ordinary, preferred or Depositary Receipts.
- Filter out any Limited Partnerships.
- Remove all securities with a 6-month ADV (as sourced from FactSet) below EUR 10 million.
- For each company keep only the most liquid share line and most liquid listing.
 - Exception represents the case when there is an existing share already in the index with a listing which is not the most liquid, but still falls above the minimum liquidity threshold of EUR 10 million. In this case the existing listing remain in the index and not be replaced by the alternative listing, which might be more liquid on the given selection date, in order to avoid unnecessary turnover and transaction costs.

On the Pool of Stocks resulting from above an ESG sustainability screening is applied based on indications from Vigeo EIRIS. This screening is based on the ten principles of the UN Global Compact as well as specific exclusions related to controversial sectors. Companies in violations of UN Global Compact principles or going beyond predefined thresholds for controversial sectors will be removed from the index. The extensive list of the controversial sectors that are screened out include: Alcohol, Animal Welfare, Controversial weapons, Firearms, Gambling, Genetic engineering, Hazardous chemicals, Intensive farming, Nuclear, Military production, Production of fur, Pornography, Tobacco.

In addition, there is also a second screening level based on Cluster Munition activities and secondly on the UNGC Scores, where the top 5 companies performing worst in terms of environment, human rights, labor rights and anticorruption are removed.

The universe of stocks is then ranked based on each securities' free float market capitalization in descending order and the top 100 stocks with the highest free float market capitalization are selected.

A capping procedure is implemented, at the same time, to avoid excessive concentration in any of the countries mentioned above and ensure a diversified allocation. The cap is applied to the maximum number of stocks allowed to be included into the index universe from each country and ensures that no more than 20% of the total number of stocks are included in the index, i.e. 20 stocks per country. Once the cap for any country is breached, the stocks from other countries with the highest ranking in term of free float capitalization are selected and added to the index to replace the removed stocks until the target number of 100 stocks is reached.

A 20% buffer rule is also applied either at an index level (across all countries), or separately (for countries which have breached the capping procedure stipulated above) in the following manner:

- Non-constituents will be eligible if ranked within the top 80% by component count in descending order of free-float market capitalization

- Current constituents will remain eligible if ranked within the top 120%
- Both rules will be applied while respecting the capping limitations

Should there be less or more than 100 stocks in this selection pool after the capping mechanism was applied, the constituents will be added or removed based on their ranking until the required count is reached, whilst respecting capping restrictions.

In addition to the yearly index reconstitution, there is a quarterly index review, where the composition of the index is screened for any ESG sustainability breaches. In case a current index component does not fulfill those requirements anymore, it will be replaced by (and its weight will be attributed to) the immediately following stock ranked on free float market capitalization. In case there are more stocks to be removed, then the exchange will take place in pairs: the weight of the largest current index component will be attributed to the highest ranked non-component, based on free float market capitalization, and so on to determine each pair. The country capping restriction of 20% is still to be applied.

2.2 Ordinary adjustment

The composition of the Index is reviewed every year on the Selection Date (last Business Day of February) and all necessary changes are announced. The Index is adjusted on the Adjustment Day (fourth Tuesday of March), after COB, provided that all relevant stock exchanges are trading on that day. Each member of the new composition is weighted equally 5 Business Days before the Adjustment Day, when the number of shares is fixed.

For the quarterly sustainability review, the Review Date is the last Business Day of May, August and November. The effective date is the third Tuesday of June, September and December.

The first adjustment will be made in March 2018 based on the Trading Prices of the Index Components on the Adjustment Day.

Solactive AG shall publish any changes made to the Index composition on the Selection Day and consequently with sufficient notice before the Adjustment Day.

2.3 Extraordinary adjustment

An extraordinary adjustment, if applicable, is triggered and applied in compliance with the rules set forth in the [Solactive Guideline for Extraordinary Corporate Actions](#).

2.4 Rulebook Change

The index was acquired by Solactive on the 25th of August 2017. Immediately prior to that date, there were some modifications in the selection procedure. The historical timeline before that date, was based on a slightly different guideline.

The main differences in construction are:

- Previous selection starts by filtering the 400 most liquid stocks from the initial pool
- Next, these stocks are ranked according to Free-Float Adjusted Market Capitalization
- Lastly the top 100 stocks are selected in the composition applying the same buffer rule and capping procedure as described in the current document

3 Calculation of the Index

3.1 Index formula

The Index Value on a Business Day is calculated in accordance with the following formula:

$$Index_t = \sum_{i=1}^n \frac{(x_{i,t} * p_{i,t} * f_{i,t})}{D_t}$$

With:

$x_{i,t}$ = Number of Index Shares of the Index Component i on Trading Day t

$p_{i,t}$ = Price of Index Component i on Trading Day t

$f_{i,t}$ = Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency

D_t = Divisor on Trading Day t

The initial Divisor on the Start Date is calculated according to the following formula:

$$D_t = \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}{100}$$

After the close of trading on each Adjustment Day t the new Divisor is calculated as follows:

$$D_{t+1} = \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t+1})}{Index_t}$$

This Divisor is valid starting the immediately following Business Day.

3.2 Accuracy

The value of the Index will be rounded to 3 decimal places.

3.3 Adjustments

Indices need to be adjusted for systematic changes in prices once these become effective. This requires the new Number of Index Shares of the affected Index Component and the Divisor to be calculated on an ex-ante basis.

Following the Committee's decision, the Index is adjusted for distributions, capital increases and stock splits.

This procedure ensures that the first ex quote can be properly reflected in the calculation of the Index. This ex-ante procedure assumes the general acceptance of the Index calculation formula as well as open access to the parameter values used. The calculation parameters are provided by the Index Calculator.

3.4 Dividends and other distributions

Dividend payments and other distributions are included in the Index. They cause an adjustment of the Divisor. The new Divisor is calculated as follows:

$$D_{t+1} = D_t * \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t}) - (x_{i,t} * y_{i,t} * g_{i,t})}{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}$$

With:

- $p_{i,t}$ = Price of Index Component i on Trading Day t
- $f_{i,t}$ = Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency
- $x_{i,t}$ = Number of Index Shares of the Index Component i on Trading Day t
- $y_{i,t}$ = Distribution of Index Component i with ex date t+1 multiplied by the Dividend Correction Factor
- $g_{i,t}$ = Foreign exchange rate to convert the amount of the distribution of Index Component i on Trading Day t into the Index Currency
- D_t = Divisor on Trading Day t
- D_{t+1} = Divisor on Trading Day t+1

3.5 Corporate actions

3.5.1 Principles

Following the announcement by an issuer of Index Components of the terms and conditions of a corporate action the Index Calculator determines whether such corporate action has a dilutive, concentrative or similar effect on the price of the respective Index Component.

If this should be the case the Index Calculator shall make the necessary adjustments that are deemed appropriate in order to take into account the dilutive, concentrative or similar effect and shall determine the date on which this adjustment shall come into effect.

Amongst other things the Index Calculator can take into account the adjustment made by an Affiliated Exchange as a result of the corporate action with regard to option and futures contracts on the respective share traded on this Affiliated Exchange.

3.5.2 Capital increases

In the case of capital increases with ex date t+1 the Index is adjusted as follows:

$$x_{i,t+1} = x_{i,t} * \frac{1 + B}{1}$$

With:

- $x_{i,t+1}$ = Number of Index Shares of Index Component i on Trading Day t+1
 $x_{i,t}$ = Number of Index Shares of Index Component i on Trading Day t
 B = Shares received for every share held

$$p_{i,t+1} = \frac{p_{i,t} + s * B}{1 + B}$$

With:

- $p_{i,t+1}$ = Hypothetical Price of Index Component i on Trading Day t+1
 $p_{i,t}$ = Price of Index Component i on Trading Day t
 s = Subscription Price in the Index Component currency
 B = Shares received for every share held

$$D_{t+1} = D_t * \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t}) + \sum_{i=1}^n [(x_{i,t+1} * p_{i,t+1} * f_{i,t}) - (x_{i,t} * p_{i,t} * f_{i,t})]}{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}$$

With:

- $D_{i,t+1}$ = Divisor on Trading Day t+1
 $D_{i,t}$ = Divisor on Trading Day t
 $p_{i,t}$ = Price of Index Component i on Trading Day t
 $f_{i,t}$ = Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency
 $x_{i,t}$ = Number of Index Shares of the Index Component i on Trading Day t
 $p_{i,t+1}$ = Hypothetical price of Index Component i on Trading Day t+1
 $x_{i,t+1}$ = Number of Index Shares of the Index Component i on Trading Day t+1

3.5.3 Share splits

In the case of share splits with ex date on Trading Day t+1 it is assumed that the prices change in ratio of the terms of the split. The new Number of Index Shares is calculated as follows:

$$x_{i,t+1} = x_{i,t} * B$$

With:

$x_{i,t+1}$ = Number of Index Shares of the affected Index Component on Trading Day t+1

$x_{i,t}$ = Number of Index Shares of the affected Index Component on Trading Day t

B = Shares after the share split for every share held before the split

3.5.4 Stock distributions

In the case of stock distributions with ex date on Trading Day t+1 it is assumed that the prices change according to the terms of the distribution. The new Number of Index Shares is calculated as follows:

$$x_{i,t+1} = x_{i,t} * (1 + B)$$

With:

$x_{i,t+1}$ = Number of Index Shares of the affected Index Component on Trading Day t+1

$x_{i,t}$ = Number of Index Shares of the affected Index Component on Trading Day t

B = Shares received for every share held

3.6 Miscellaneous

3.6.1 Recalculation

Solactive AG makes the greatest possible efforts to accurately calculate and maintain its indices. However, the occurrence of errors in the index determination process cannot be ruled out. In such cases Solactive AG adheres to its publicly available [Correction Policy](#).

3.6.2 Market Disruption

In periods of market stress Solactive AG calculates its indices following predefined and exhaustive arrangements set out in its publicly available [Disruption Policy](#).

4. Definitions

“Adjustment Day” is the fourth Tuesday of March, for the yearly reconstitution and third Tuesday of June, September and December for the quarterly review. If this is not a Trading Day, then the Adjustment will be delayed until the following Trading Day.

An **“Affiliated Exchange”** is with regard to an Index Component an exchange, a trading or quotation system on which options and futures contracts on the Index Component in question are traded, as specified by the Index Calculator.

A **“Business Day”** is any day from Monday to Friday.

“Dividend Correction Factor” is calculated as 1 minus the applicable withholding tax rate and/or other applicable tax rate currently prevalent in the respective country.

“Exchange” is, in respect of Index and every Index Component, the respective primary exchange where the Index Component has its primary listing. The Committee may decide to declare a different stock exchange the “Exchange” for trading reasons, even if the company is only listed there via a Stock Substitute.

In particular an **“Extraordinary Event”** is

- a Merger
- a Takeover bid
- a delisting
- the Nationalisation of a company
- Insolvency.

The Trading Price for this Index Component on the day the event came into effect is the last available market price for this Index Component quoted on the Exchange on the day the event came into effect (or, if a market price is not available for the day the event came into effect, the last available market price quoted on the Exchange on a day specified as appropriate by the Index Calculator), as determined by the Index Calculator, and this price is used as the Trading Price of the particular Index Component until the end of the day on which the composition of the Index is next set.

In the event of the Insolvency of an issuer of an Index Component the Index Component shall remain in the Index until the next Adjustment Day. As long as a market price for the affected Index Component is available on a Business Day, this shall be applied as the Trading Price for this Index Component on the relevant Business Day, as determined in each case by the Index Calculator. If a market price is not available on a Business Day the Trading Price for this Index Component is set to zero. The Committee may also decide to eliminate the respective Index Component at an earlier point in time prior to the next Adjustment Day. The procedure in this case is identical to an elimination due to and Extraordinary Event.

An Index Component is **“delisted”** if the Exchange announces pursuant to the Exchange regulations that the listing of, the trading in or the issuing of public quotes on the Index Component at the Exchange has ceased immediately or will cease at a later date, for whatever reason (provided delisting is not because of a Merger or a Takeover bid), and the Index Component is not immediately listed, traded or quoted again on an exchange, trading or listing system, acceptable to the Index Calculator,

The **“Index Calculator”** is Solactive AG or any other appropriately appointed successor in this function.

“Index Component” is each share currently included in the Index.

The “**Index Currency**” is EUR.

“**Insolvency**” occurs with regard to an Index Component if (A) all shares of the respective issuer must be transferred to a trustee, liquidator, insolvency administrator or a similar public officer as result of a voluntary or compulsory liquidation, insolvency or winding-up proceedings or comparable proceedings affecting the issuer of the Index Components or (B) the holders of the shares of this issuer are legally enjoined from transferring the shares.

A “**Market Disruption Event**” occurs if

1. one of the following events occurs or exists on a Trading Day prior to the opening quotation time for an Index Component:

A) trading is suspended or restricted (due to price movements that exceed the limits allowed by the Exchange or an Affiliated Exchange, or for other reasons):

1.1. across the whole Exchange; or

1.2. in options or futures contracts on or with regard to an Index Component or an Index Component that is quoted on an Affiliated Exchange; or

1.3. on an Exchange or in a trading or quotation system (as determined by the Index Calculator) in which an Index Component is listed or quoted; or

B) an event that (in the assessment of the Index Calculator) generally disrupts and affects the opportunities of market participants to execute on the Exchange transactions in respect of a share included in the Index or to determine market values for a share included in the Index or to execute on an Affiliated Exchange transaction with regard to options and futures contracts on these shares or to determine market values for such options or futures contracts; or

2. trading on the Exchange or an Affiliated Exchange is ceased prior to the usual closing time (as defined below), unless the early cessation of trading is announced by the Exchange or Affiliated Exchange on this Trading Day at least one hour before

(aa) the actual closing time for normal trading on the Exchange or Affiliated Exchange on the Trading Day in question or, if earlier.

(bb) the closing time (if given) of the Exchange or Affiliated Exchange for the execution of orders at the time the quote is given.

“**Normal exchange closing time**” is the time at which the Exchange or an Affiliated Exchange is normally closed on working days without taking into account after-hours trading or other trading activities carried out outside the normal trading hours; or

3. a general moratorium is imposed on banking transactions in the country in which the Exchange is resident if the above-mentioned events are material in the assessment of the Index Calculator, whereby the Index Calculator makes his decision based on those circumstances that he considers reasonable and appropriate.

With regard to an Index Component a “**Merger**” is

(i) a change in the security class or a conversion of this share class that results in a transfer or an ultimate definite obligation to transfer all the shares in circulation to another legal person,

(ii) a merger (either by acquisition or through forming a new structure) or a binding obligation on the part of the issuer to exchange shares with another legal person (except in a merger or share exchange under which the issuer of this Index Component is the acquiring or remaining company and which does not involve a change in security class or a conversion of all the shares in circulation),

(iii) a takeover offer, exchange offer, other offer or another act of a legal person for the purposes of acquiring or otherwise obtaining from the issuer 100% of the shares issued that entails a transfer or the irrevocable obligation to transfer all shares (with the exception of shares which are held and controlled by the legal person), or

(iv) a merger (either by acquisition or through forming a new structure) or a binding obligation on the part of the issuer of the share or its subsidiaries to exchange shares with another legal person, whereby the issuer of the share is the acquiring or remaining company and it does not involve a change in the class or a conversion of the all shares issued, but the shares in circulation directly prior to such an event

(except for shares held and controlled by the legal person) represent in total less than 50% of the shares in circulation directly subsequent to such an event.

The **“Merger Date”** is the date on which a Merger is concluded or the date specified by the Index Calculator if such a date cannot be determined under the law applicable to the Merger.

“Nationalisation” is a process whereby all shares or the majority of the assets of the issuer of the shares are nationalised or are expropriated or otherwise must be transferred to public bodies, authorities or institutions.

“Percentage Weight” of an Index Component is the ratio of its Trading Price multiplied by its Number of Shares divided by the Index value and the Divisor.

“Review Day” is the last Business Day in May, August and November.

“Selection Day” is the last Business Day in February.

“Stock Substitute” includes in particular American Depository Receipts (ADR) and European Depository Receipts (GDR).

A **“Takeover bid”** is a bid to acquire, an exchange offer or any other offer or act of a legal person that results in the related legal person acquiring as part of an exchange or otherwise more than 10% and less than 100% of the voting shares in circulation from the issuer of the Index Component or the right to acquire these shares, as determined by the Index Calculator based on notices submitted to public or self-regulatory authorities or other information considered by the Index Calculator to be relevant.

“Total Shares” is in respect of an Index Component and any given Business Day the number or fraction of shares included in the Index. It is calculated for any Index Component as the ratio of (A) the Percentage Weight of an Index Component multiplied by the Index value and the Divisor and (B) its Trading Price (converted into the index currency according to the principles laid out in Section 1.4 of this document).

A **“Trading Day”** is in relation to the Index or an Index Component a Trading Day on the Exchange (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 Calculator 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.

With regard to an Index component (subject to the provisions given above under “Extraordinary Events”) the **“Trading Price”** in respect of a Trading Day is the closing price on this Trading Day determined in accordance with the Exchange regulations. If the Exchange has no closing price for an Index Component, the Index Calculator shall determine the Trading Price and the time of the quote for the share in question in a manner that appears reasonable to him.

5 Appendix

5.1 Contact data

Information regarding the Index concept

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5.2 Calculation of the Index – change in calculation method

The application by the Index Calculator of the method described in this document is final and binding. The Index Calculator 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, financial or tax reasons may require changes to be made to this method. The Index Calculator may also make changes to the terms and conditions of the Index and the method applied to calculate the Index, which he 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 Calculator is not obliged to provide information on any such modifications or changes. Despite the modifications and changes the Index Calculator will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.