

## **GUIDELINE**

# **Solactive UK 100 Equal Weight 5% AR Index**

Version 1.4 dated March 9<sup>th</sup>, 2016



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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive UK 100 Equal Weight 5% AR 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 Solactive UK 100 Equal Weight 5% AR Index. Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Solactive UK 100 Equal Weight 5% AR Index is calculated and published by Solactive AG. The name “Solactive” is copyrighted.

## 1 Index specifications

The Solactive UK 100 Equal Weight 5% AR Index (“Solactive UK 100 Equal Weight 5% AR Index”, the “Index”) is an Index of Solactive and is calculated and distributed by Solactive AG.

The index tracks the performance of the 100 largest companies incorporated in the UK or with a primary listing in the UK in terms of Free Float Market Capitalization.

The Index is a gross total return index minus a 5% decrement per annum.

The Index is published in GBP.

### 1.1 Short name and ISIN

The Solactive UK 100 Equal Weight 5% AR Index is distributed under ISIN DE000SLA16D4; the WKN is SLA16D. The Index is published in Reuters under the code .SOLUKEW and in Bloomberg under the code SOLUKEW Index.

### 1.2 Initial value

The Index is based on 100 at the close of trading on the start date, August 3<sup>rd</sup>, 2005.

### 1.3 Distribution

The Solactive UK 100 Equal Weight 5% AR 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 Solactive UK 100 Equal Weight 5% AR Index via his information systems.

### 1.4 Prices and calculation frequency

The price of the Solactive UK 100 Equal Weight 5% AR Index is calculated every 15 seconds on each Business Day except on Index Holidays 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. 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 Solactive UK 100 Equal Weight 5% AR 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.

Any incorrect calculation is adjusted on a retrospective basis.

## **1.5 Weighting**

On each Adjustment Day each Index Component of the Solactive UK 100 Equal Weight 5% AR Index is weighted equally.

## **1.6 Decision-making bodies**

A committee composed of staff from Solactive is responsible for decisions regarding the composition of the Solactive UK 100 Equal Weight 5% AR 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 Solactive UK 100 Equal Weight 5% AR 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 Solactive UK 100 Equal Weight 5% AR Index if 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 February 26<sup>th</sup>, 2016.

## **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.

# **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 defines the Solactive UK 100 Equal Weight 5% AR Index Universe, a selection pool that encompasses all stocks which meet the following criteria:

- Listing in GBP on a regulated stock exchange in the form of shares tradable for foreign investors without restrictions and country of incorporation in the United Kingdom (UK)

-in case the country of incorporation is outside the UK but the primary listing is in the UK, the stock is eligible for inclusion

-Minimum average daily value traded of 5 million GBP over the last 6 months

Companies are then ranked in terms of Free Float Market Capitalization and the largest 100 companies are selected.

## **2.2 Ordinary adjustment**

The composition of the Solactive UK 100 Equal Weight 5% AR Index is reviewed on each Selection Day and necessary changes are announced. The composition of the Index is rebalanced on each Adjustment Day.

The first adjustment date is on 4<sup>th</sup> May 2016 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**

If a company is removed from the Index between two ordinary Adjustment Days due to an Extraordinary Event, the weight of the stock will be redistributed pro rata amongst the remaining index members. This is announced by Solactive AG after the decision has been made on its webpage. The Index is adjusted with two days notice if possible. In case of a spin-off by an Index constituent, the spun-off company will be added to the Index according to the terms on the effective date. Extraordinary adjustments may result in the Index tracking more or less than 100 companies. For all extraordinary corporate actions not covered within this document, the Index Committee will announce the specific treatment on the Solactive webpage.

## 3 Calculation of the Index

### 3.1 Index formula

The Solactive UK 100 Equal Weight 5% AR Index is an index whose value on a Business Day is equivalent to the sum over all Index Components of the products of (a) the Number of Shares of the Index Component and (b) the price of the Index Component at the respective Exchange decremented by 5% per annum.

As a formula:

$$BaseIndex_t = \sum_{i=1}^n x_{i,t} * p_{i,t}$$

Where on the first Business Day:

$$x_{i,t} = \frac{1}{100} * \frac{100}{p_{i,t}}$$

On any other subsequent Business Day except Adjustment Days:

$$x_{i,t} = x_{i,t-1}$$

If the Business Day is also an Adjustment Day, the Number of Shares are calculated as follows for the upcoming Trading Day

$$x_{i,t+1} = \frac{1}{100} * \frac{BaseIndex_t}{p_{i,t}}$$

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

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

The Solactive UK 100 Equal Weight 5% AR Index is a gross total return index minus a 5% decrement per annum. The decrement is subtracted from the BaseIndex. The Index Level on a Business Day is calculated in accordance with the following formula:

$$Index_t = Index_{t-1} \times \left[ 1 + \left[ \left\{ \frac{BaseIndex_t}{BaseIndex_{t-1}} - 1 \right\} - \left\{ \frac{decrement}{360} \right\} \times nb CD_{t-1,t} \right] \right]$$

Where

"Decrement" means 5% (per annum).

"nb CD<sub>t-1,t</sub>" is the number of calendar days between Business Day t-1 and t;

### 3.2 Accuracy

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

The Number of Shares of the Index Components will not be rounded.

Trading Prices will be rounded to six 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 Shares of the affected Index Component to be calculated on an ex-ante basis.

The Solactive UK 100 Equal Weight 5% AR Index is adjusted for dividends, capital increases (rights issues), capital reductions, share splits and par value conversions as well as, in accordance with the principles in 3.5.1, other corporate actions.

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 Solactive AG.

Any delay in calculating the new Number of Shares of an Index Component would create problems. Therefore the procedure described above is the most appropriate.

### 3.4 Dividends

Dividend payments are included in the Index. They cause an adjustment of the Number of Shares of the corresponding Index Component. The new Number of Shares is calculated as follows:

$$x_{it} = x_{i,t-1} * \frac{P_{i,t-1}}{P_{i,t-1} - D_{i,t}}$$

with

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

$D_{i,t}$  = Payment with ex-date of Trading Day t

$p_{i,t-1}$  = Closing price on the day prior to ex-date

## 3.5 Corporate actions

### 3.5.1 Principles

Following the announcement by a company included in the Index of the terms and conditions of a corporate action the Index Calculator determines whether such corporate action has a dilution, concentration or other effect on the price of the Index Component.

If this should be the case the Index Calculator shall make the necessary adjustments to the affected Index Component and/or the formula for calculating the Index and/or to other terms and conditions of this document that he deems appropriate in order to take into account the dilution, concentration or other 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 (rights issues)

In the case of capital increases (from the company's own resources or through cash contributions) the new Numbers of Shares are calculated as follows:

$$x_{i,t} = x_{i,t-1} * \frac{p_{i,t-1}}{p_{i,t-1} - rB_{i,t-1}} \quad \text{with:} \quad rB_{i,t-1} = \frac{p_{i,t-1} - B - N}{BV + 1}$$

$x_{i,t}$  = Number of Shares of Index Component i on the day of the distribution

$x_{i,t-1}$  = Number of Shares of Index Component i on the day prior to the distribution

$p_{i,t-1}$  = Closing price on the day prior to the ex-date

$rB_{i,t-1}$  = Calculated value of rights issue

$B$  = Price of rights issue

$N$  = Dividend disadvantage

$BV$  = Subscription ratio, defined as number of shares on the day of the distribution divided by the number of shares on the day prior to the distribution

$B=0$  if capital is increased from the company's own resources.

The last dividend paid or the announced dividend proposal is applied as the dividend disadvantage.

### 3.5.3 Capital reductions

In the case of capital reductions the new Number of Shares is determined as follows:

$$x_{i,t} = x_{i,t-1} * \frac{1}{H_{i,t}}$$



- $H_{it}$  = Reduction ratio of the company on day t (the reduction date), defined as number of shares on the day before the reduction date, divided by the number of shares on the reduction date
- $x_{i,t}$  = Number of Shares of the affected Index Component on day t
- $x_{i,t-1}$  = Number of Shares of the affected Index Component on day t-1

### 3.5.4 Share splits and par value conversions

In the case of share splits and par value conversions it is assumed that the prices change in ratio to the number of shares or to the par values. The new Number of Shares is calculated as follows:

$$x_{i,t} = x_{i,t-1} * \frac{N_{i,t-1}}{N_{i,t}}$$

- $N_{i,t-1}$  = Par value (or number of shares) of security class i on the day prior to the effective date
- $N_{i,t}$  = Par value (or number of shares) of security class i on the effective date
- $x_{i,t}$  = Number of Shares of the affected Index Component on the effective date
- $x_{i,t-1}$  = Number of Shares of the affected Index Component on the day prior to the effective date

### 3.6 Calculation of the Index in the event of a Market Disruption Event

In the event of a Market Disruption Event, the Index Calculator calculates the Index value, taking into account the market conditions prevailing at this point in time, the last quoted Trading Price for each of the Index Components as well as any other conditions that it deems relevant for calculating the Index value.

## 4. Definitions

“**Adjustment Day**” is each first Wednesday in February, May, August and November.

An “**Affiliated Exchange**” is with regard to an Index Component an exchange, or 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 every day from Monday to Friday except any Index Holiday.

“**Exchange**” is, in respect of Solactive UK 100 Equal Weight 5% AR 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 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.

“**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.

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.

**“Free Float Market Capitalization”** means the Market Capitalization based on publicly available free float shares. The free float shares are calculated by subtracting the shares held by insiders and those deemed to be stagnant shareholders from the shares outstanding.

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 GBP (British Pound).

An **“Index Holiday”** is any UK bank holiday. For 2016, for example, these include:

Good Friday (March 25th 2016), Easter Monday (March 25th 2016), Early May bank holiday (May 2nd 2016), Spring bank holiday (May 30th 2016), Summer bank holiday (August 29th 2016), Boxing Day(December 26th 2016), Christmas Day (substitute day: December 27th 2016), New Year’s Day (substitute day: January 2nd 2017).

**“Market Capitalization”** is with regard to each of the shares in the Solactive UK 100 Equal Weight 5% AR Index Universe on a Selection Day or Adjustment Day the value published on Reuters as the Market Capitalization for this day.

As at the date of this document Market Capitalization is defined as the value of a company calculated by multiplying the number of shares outstanding of the company by its share price.

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 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 normal exchange 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.

**“Number of 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 (B) its Trading Price.

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

**“Selection Day”** is two weeks before the Adjustment day and in January, April, July and October.

**“Solactive UK 100 Equal Weight 5% AR Index Universe”** in respect of a Selection Day are companies that fulfill the following criteria:

1. Listing in GBP on a regulated UK stock exchange in the form of shares tradable for foreign investors without restrictions and a country of incorporation in the UK
2. In case the country of incorporation criterion is not fulfilled but the primary listing criterion, i.e. the stock having been admitted to trading to respective country's prevailing stock exchange with a price denominated in the applicable local currency, Solactive will include the stock.
3. Minimum average daily value traded of 5 million GBP over the last 6 months

**“Stock Substitute”** means other equities including American Depository Receipts (ADR) and Global Depository Receipts (GDR).

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 Solactive UK 100 Equal Weight 5% AR 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.