

INDEX GUIDELINE

Solactive ESG Big Data Europe High Dividend Low Volatility Index

Version 1.2

29 November 2019

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411

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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 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.

It contains the underlying principles and rules regarding the structure and operation of the Solactive ESG Big Data Europe High Dividend Low Volatility Index (the "Index"). Solactive AG shall make every effort to implement the applicable 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 does not constitute a 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.



1 INDEX SPECIFICATIONS

- > The Solactive ESG Big Data Europe High Dividend Low Volatility Index (the "Index") is an Index of Solactive AG and is calculated and distributed by Solactive AG.
- > The Index intends to track the price movements of a portfolio of 30 European companies with a high dividend yield and low volatility. The index constituents are selected from a pool of stocks that only includes companies that have no involvement in the area of controversial weapons and fossil fuel extraction and no significant business involvement in a range of controversial areas such as tobacco, alcohol, gambling among others. Furthermore, the selection pool is filtered for companies in the top 90% in regards to their United Nations Global Compact compliance Score and in the top 40% in regards to their overall ESG Score.
- > The Index is available as a Price Return, Net Total Return, and Total Return index.
- > The Index is published in EUR.

1.1 SHORT NAME AND ISIN

The Index is distributed under the following identifiers and vendor codes:

Index Name	Characteristic	ISIN	RIC	TICKER
Solactive ESG Big Data Europe High	Price Return	DE000SLA8H16	.SOBIGESG	SOBIGESG
Dividend Low Volatility Index PR				
Solactive ESG Big Data Europe High	Net Total Return	DE000SLA8H24	.SOBIGESGN	
Dividend Low Volatility Index NTR				
Solactive ESG Big Data Europe High	Total Return	DE000SLA8H32	.SOBIGESGT	
Dividend Low Volatility Index TR				

1.2 INITIAL VALUE

The Index is based on 100 at the close of trading on the start date, 7 February 2007.

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 it will distribute/display the Index via its information systems.

1.4 PRICES AND CALCUATION 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 9:00 a.m. to 10:30 p.m., 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

The weight of the Index Components on the Selection Day is determined based on the following optimization algorithm in order to reach the minimum portfolio volatility:

$\min w' \Sigma w$

Subject to the constraints:

$$\sum_{i=1}^{n} w_i = 1$$
$$w^{\min} \le w_i \le w^{\max}, i = 1, ..., n$$

Where:

w = n-dimensional vector of weights with generic element w_i

 Σ = n-by-n-dimensional variance-covariance matrix (using 125 daily returns) based on Trading Prices adjusted for splits and spin-offs

 w^{max} = the maximum weight of each stock (7%)

 w^{min} = the minimum weight of each stock (1%)

The resulting weights of the optimization problem are the weights w_i^{target} for i=1,...,n.

1.6 OVERSIGHT

A Committee composed of staff from Solactive AG (the "Committee" or the "Index Committee") is responsible for decisions regarding the composition of the Index as well as any amendments to the rules.

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 <u>http://www.solactive.com</u> web page and sub-pages.

1.8 HISTORICAL DATA

Historical data will be maintained from the launch of the Index on 12 June 2019.

1.8 LICENSING

Licenses 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 are based on the following nondiscretionary rules:

On the Selection Days, Solactive AG defines the Index Universe as outlined in Section 4. The selection of the Index Components proceeds as follows:

1. Companies that violate the following criteria are excluded. The assessment of such violations is provided by the ESG Provider:

Business involvement	Exclusion criterion
Adult Entertainment	Company derives $\ge 5\%$ of revenues from adult entertainment products
Stem Cells	Company derives $\ge 5\%$ of revenues from stem cell research
Alcohol	Company derives $\ge 5\%$ of revenues from the production and/or sale of
	alcohol
Defense ¹	Company derives $\ge 5\%$ of revenues from defense contracting
Controversial Weapons ²	Any involvement, i.e. company derives $\geq 0\%$ of revenues from the sale
	and/or production of controversial weapons
Gambling	Company derives $\ge 5\%$ of revenues from gambling products and/or services
Торассо	Company derives $\ge 5\%$ of revenues from the sale and/or production of
	tobacco products
Nuclear	Company derives $\ge 5\%$ of revenues from non-military uranium enrichment
	and/or the exploitation of nuclear energy. For the Electric Utilities industry:
	Any involvement in nuclear power production.
Fossil Fuel ³	Any involvement, i.e. company derives \geq 0% of revenues from the
	extraction of fossil fuels. For the Electric Utilities industry: Any
	involvement in fossil fuel power production.

¹ Companies involved in manufacturing and distributing advanced combat equipment, services and technology targeted at combat, national security, and other defense applications. This includes, but is not limited to, involvements with weaponry and related components thereof, artillery equipment, combat and combat-support vehicles, missile systems, attack submarines, military aircrafts, unmanned aerial vehicles, advanced electronic hardware and support products, propulsion equipment, hybrid circuits dedicated to military and aerospace applications, and IT solutions tailored and marketed for aerospace/defense industries.

² Companies manufacturing either whole strategic parts or platforms for nuclear weapons, nuclear weapon systems, or nuclear weapon components. Companies involved in chemical and biological weapons manufacturing, and suppliers involved in providing relevant products or services related to chemical and biological weapons manufacturing. Companies involved in cluster munitions manufacturing, and suppliers involved in providing relevant products or services related to cluster munitions manufacturing. Companies involved in land-mines manufacturing, and suppliers involved in providing relevant products or services related to cluster munitions manufacturing. Companies involved in land-mines manufacturing, and suppliers involved in providing relevant products or services related to cluster munitions manufacturing.

³ Companies involved in the exploration, extraction, production, refinement, marketing, storage, and distribution of coal, oil, and/or gas (fossil fuels). Companies which provide electricity generated by fossil fuels. Companies which provide support services and equipment for fossil fuel operations. Companies involved in unconventional oil and gas operations (e.g. extraction), including oil/tar sands, shale gas, coalbed or coalseam methane, tight gas, gas hydrates, shale oil, fracking, and Arctic drilling.

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GMO	Company derives $\ge 5\%$ of revenues from research and/or production of
	genetically modified organisms (GMO) based products
Thermal Coal ⁴	Company derives \ge 5% of revenues from thermal coal extraction

- 2. Companies with missing data for any of the items listed in the table above and/or ESG Score and/or Global Compact Score are excluded.
- 3. The top 90% of stocks with the highest Global Compact Score are retained
- 4. The top 40% of stocks with the highest ESG Score are retained
- 5. Stocks with a Last Year's Quarterly Dividend Yield greater than 20% or smaller than 0.5% are excluded.
- 6. The top 45 stocks with the highest Last Year's Quarterly Dividend Yield are retained. If only less than 45 stocks can be selected from the remaining stocks after step 5., the stocks with the lowest volatility over the previous 90 calendar days are selected until a total of 45 stocks is available for the next steps.
- 7. The top 30 stocks with the lowest the lowest volatility over the previous 90 calendar days are selected as Index Components.

2.2 ORDINARY ADJUSTMENT

The composition of the Index is adjusted quarterly. The composition of the Index is reviewed on the Selection Day and necessary changes are announced.

The first adjustment will be made in August 2019, 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 <u>Solactive Guideline for Extraordinary Corporate Actions</u>.

⁴ Companies involved in the leasing of coal mines and the mining and processing of thermal (steam) coal.



3 CALCULATION OF THE INDEX 3.1 INDEX FORMULA

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

$$Index_{t} = \sum_{i=1}^{n} \frac{(x_{i,t} \times p_{i,t} \times f_{i,t})}{D_{t}}$$

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:

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

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

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

This Divisor is valid starting the immediately following Business Day.

3.2 ACCURACY

- > The value of the Index will be rounded to 2 decimal places.
- > Divisors 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 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

Dividends are reinvested in the Net Total Return and Total Return Indices. Only special cash dividends are reinvested in the Price Return Indices. Any reinvestment causes an adjustment of the Divisor. The new Divisor is calculated as follows:

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

With:

- $x_{i,t}$ = 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
- $p_{i,t}$ = 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
- $g_{i,t}$ = 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:

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

With:

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

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

With:

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

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

With:

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

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

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

 $p_{i,t+1}$ = Hypothetical price of Index Component *i* on Trading Day t + 1

 $f_{i,t}$ = 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

 $D_{t+1} =$ Divisor 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:

$$x_{i,t+1} = x_{i,t} \times \mathbf{B}$$

With:

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

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

With:

- $x_{i,t}$ = Number of Index Shares of the Index Component *i* on Trading Day *t*
- $x_{i,t+1}$ = Number of Index Shares of the Index Component *i* on Trading Day t + 1
- *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 <u>Correction Policy</u>.

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 <u>Disruption Policy</u>.

4 DEFINITIONS

The "Index Universe" in respect of a Selection Day are companies that fulfill the following criteria:

- 1. Member of the latest selection of the Solactive Europe Total Market 675 Index (GTR) (ISIN: DE000SLA15T2)
- 2. Free Float Market Capitalization of at least EUR 200 million
- 3. Average Daily Value Traded (ADV) over the 3 months prior to and including the Selection Day of at least EUR 1 million
- 4. Price history of at least 126 week days
- 5. For companies with multiple share lines or companies operating under a dual entity structure, only the most liquid share line is included in the Index Universe

The "ESG Provider" is Arabesque S-Ray GmbH, UK Branch.

The "**Global Compact Score**" is supplied by the ESG Provider and provides a normative assessment of each company based on the core principles of the United Nations Global Compact. This provides a deeper understanding of reputational risk facing a company.

The "**ESG Score**" is supplied by the ESG Provider and provides a sector-specific analysis of each company's performance on financially material environmental, social, and governance (ESG) issues.

The "Index Component" is each share currently included in the Index.

The "**Total Shares**" are 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).

The "**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.

The "**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.

In particular, an "Extraordinary Event" is

- > a Merger
- > a Takeover Bid
- > a Delisting
- > the Nationalization 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

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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 an 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 the 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 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 "**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.

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 that 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.

"**Nationalization**" is a process whereby all shares or the majority of the assets of the issuer of the shares are nationalized or are expropriated or otherwise must be transferred to public bodies, authorities or institutions.

The "**Exchange**" is, in respect of the 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.

A "**Stock Substitute**" includes in particular, American Depository Receipts (ADR) and Global Depository Receipts (GDR).

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 it.

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.

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

The "Index Currency" is EUR.

The "Free Float Market Capitalization" is with regard to each of the securities in the Index on a Selection Day the share class-specific Free Float Market Capitalization for any security in the Index Universe. It is calculated as the multiplication of the shares outstanding in Free Float (as sourced from data vendors) with the Trading Price of the share class as of the respective Selection Day.

The "Last Year's Quarterly Realized Dividend Yield" is calculated as follows:

$$\sum_{t=AD-1Y+1BD}^{next\ AD-1Y} \left(\frac{P_t^{GTR}}{P_{t-1}^{GTR}} - \frac{P_t^{PR}}{P_{t-1}^{PR}}\right)$$

where:

 P_t^{GTR} = stock price adjusted for splits, spin-offs, and cash dividends on Trading Day t

 P_{t-1}^{GTR} = stock price adjusted for splits, spin-offs, and cash dividends on Trading Day t-1

 P_t^{PR} = stock price adjusted for splits and spin-offs on Trading Day t-1

 P_{t-1}^{PR} = stock price adjusted for splits and spin-offs on Trading Day t

AD = date of current Adjustment Day

next AD = date of next Adjustment Day following the current Adjustment Day

next AD - 1Y = date of: next Adjustment Day following the current Adjustment Day minus 1 year. If this is not a Business Day, the date is set as the next following Business Day

AD - 1Y + 1BD = date of: current Adjustment Day minus 1 year plus 1 Business Day. If this is not a Business Day, the date is set as the next following Business Day

In words, the **"Last Year's Quarterly Realized Dividend Yield"** captures the sum of daily differences between the total returns and price returns of a stock. The period over which these differences are aggregated corresponds to the 3-month period the stock will be in the index following the current rebalancing moved back by 1 year.

A **"Business Day"** is any weekday from Monday through Friday.

The **"Adjustment Day"** is the close of the first Wednesday in February, May, August, and November. If that day is not a Business Day the Adjustment Day will be the following Business Day.

The **"Selection Day"** is ten Business Days before the Adjustment Day.

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.
- 2. trading on the Exchange or an Affiliated Exchange is ceased prior to the "Normal Exchange Closing Time", which 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. An exception to this classification as a Market Disruption Event is where the early



cessation of trading is announced by the Exchange or Affiliated Exchange on this Trading Day at least one hour before

- 2.1. the actual closing time for normal trading on the Exchange or Affiliated Exchange on the Trading Day in question or, if earlier.
- 2.2. the closing time (if given) of the Exchange or Affiliated Exchange for the execution of orders at the time the quote is given.
- 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 its decision based on those circumstances that it considers reasonable and appropriate.

5 APPENDIX

5.1 CONTACT DATA

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5.2 CHANGES 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 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 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.