



Index Guidelines relating to the

**H2 Technologie Index**

ISIN: DE000A2QCF21

("**Index Guidelines**")

Version 1.0 dated 15.09.2020

## IMPORTANT INFORMATION

The general principles of the H2 Technologie Index (the "**Index**") as of 15.09.2020 are set out below.

It should be noted that the general principles of the Index may be updated or amended from time to time. In managing the Index, the Index Administrator will employ the methodology described herein and its application of such methodology shall be conclusive and binding. No assurance can be given that fiscal, market, regulatory, juridical, financial or other circumstances will not arise that would, in the view of the Index Administrator, necessitate or make desirable a modification of or change to such methodology. The Index Administrator shall be entitled to make any such modification or change any of the provisions of the Index as set out in these Index Guidelines as it deems fit. The Index Administrator may also make modifications to the terms of the Index in any manner that it may deem necessary or desirable, including (but not limited to) to correct any manifest or proven error to cure, correct or supplement any ambiguity or defective provision contained in these Index Guidelines. Any such modification or change will take effect accordingly and will be deemed to update these Index Guidelines from its effective date.

This document is communicated by the Index Administrator. All information provided herein is for information purposes only and no warranty is made as to its fitness for purpose, satisfactory quality or otherwise. Every effort has been made to ensure that all information given is accurate, but no responsibility or liability (including in negligence) can be accepted by the Index Administrator for errors or omissions or for any losses arising from the use of this information.

The information presented herein has been prepared based on the publicly available information, internally developed data or other third-party sources believed to be reliable. All opinions and views constitute judgments as of the date of the writing and are subject to change at any time without notice.

Information contained in these Index Guidelines do not constitute an invitation to make an investment in a product based upon the Index (an "**Index Linked Product**") nor does the information, recommendations or opinions expressed herein constitute an offer for sale of an Index Linked Product.

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## INTRODUCTION

This document contains the underlying principles and regulations regarding the structure and the operations of the Index. The Index is the sole property of the Index Sponsor. LIXX GmbH, Fürstenwall 172a, 40217 Düsseldorf, Germany ("LIXX") as the Index Administrator and Index Calculation Agent strives to the best of its ability to ensure the correctness of its mechanism and calculation. LIXX is not obliged – irrespective of possible obligations to issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the Index. This document is to be used as a guideline regarding the composition, calculation and management of the Index. Any changes made to these Index Guidelines are initiated by the Index Administrator.

The calculation and publication of the Index by LIXX is no recommendation for capital investment and does not purport any assurance or opinion regarding a possible investment in a financial instrument based on the Index.

## 1. INDEX DESCRIPTION

### 1.1 Summary of Index Specifications

Reference Market	Objective
Companies which <ul style="list-style-type: none"> <li>(i) have their securities listed or admitted to trading at a trading venue;</li> <li>(ii) carry out a part or all of their business activities related to the hydrogen sector;</li> <li>(iii) have their headquarters located outside of the United States;</li> </ul> (the " <b>Reference Market</b> ").	The objective of the Index is to reflect the performance an investor can achieve by investing in a dynamic portfolio of hydrogen related equity securities that has been weighted to achieve an optimized balance between maximum return and risk on a portfolio level. To reflect the economic reality given by factors such as availability of instruments, reinvestment of maturing instruments and portfolio size, Index Components may be replaced, and their weighting adjusted over time.
<b>Administration of the Index and Regulatory Status</b>	
The Index is calculated, maintained, rebalanced and published by the Index Administrator and sponsored by the Index Sponsor. The Index is maintained, and rebalanced following recommendations provided by the Index Allocator.	
As at the date of these Index Guidelines the Index is considered a "non-significant benchmark" within the meaning of Article 3 para 1 (27) Regulation (EU) 2016/2011 of the European Parliament and the Council of 8 June 2016 (" <b>Benchmark Regulation</b> "). The Index is administrated in accordance with the applicable provisions of the Benchmark Regulation and the applicable delegated regulations. The Index Administrator may, at its own discretion, choose not to apply some or all non-mandatory, waivable obligations in accordance with Article 26 of the Benchmark Regulation.	
<b>Universe of Index Components</b>	
Equity securities of companies from the Reference Market.	

<b>Selection of Index Components</b>
Index Components will be selected by applying advanced filter criteria to the Universe of Index Components. Further information can be found in section 2.2 ( <i>Selection of Index Components</i> ).
<b>Allocation of Index Components</b>
The allocation recommendations by the Index Allocator are based on the results of a pre-determined process as further described in Annex 2. According to the index allocation agreement, the Index Allocator has assumed the obligation to provide the Index Administrator with recommendations regarding the selection and weightings of the Index Components.
<b>Methodology</b>
The methodology of the Index is set out in section 2 ( <i>Index Methodology</i> ).
<b>Technical Specifications</b>
The reference currency of the Index is EUR and the Index is calculated daily. The Index will not use leverage. The Index is a Total Return Net Index, i.e. dividends or coupon payments will be reinvested in the hypothetical portfolio of the Index after deducting Withholding Tax.

## **1.2 Name and ISIN**

The name of the Index is H2 Technologie Index. The Index is distributed under ISIN DEoooA2QCF21.

## **1.3 Initial Index Value**

The Index is established for calculation by LIXX as of 15.09.2020 ("**Index Start Date**") with an initial level of 100.00 index points ("**Initial Index Value**").

## **1.4 Distribution**

The Index Value is published by LIXX under a sub-page of [www.lixxinnovation.com](http://www.lixxinnovation.com) as of each Index Valuation Date, no later than twenty-five (25) Business Days following the respective Index Valuation Date.

## **1.5 Prices and Calculation Frequency**

The Index is calculated daily on each Business Day (each an "**Index Valuation Date**"). In case a scheduled Index Valuation Date is not a Business Day, the Index Valuation Date falls on the next day that is a Business Day. The Index calculation is based on the Official Valuation of the respective Index Components. The Index Administrator will take appropriate steps to avoid a disruption to the process of the provision of the Index. However, if relevant data cannot be obtained, the Index Administrator will not publish the Index. Deficient calculations will be managed in accordance with the LIXX Correction Policy.

## **1.6 Index Administrator and External Service Providers**

### **1.6.1 Index Administrator**

In performing its duties, the Index Administrator follows the business principles published on its website and the applicable provisions of the Benchmark Regulation and its delegated regulations.

In managing the Index, the Index Administrator will employ the methodology described herein and its application shall be conclusive and binding. No assurance can be given that fiscal, market, regulatory, juridical, financial or other circumstances will not arise that would, in the view of the Index Administrator, necessitate or make desirable a modification of or change to such methodology and the Index Administrator shall be entitled to make any such modification or change any of the provisions of the Index as set out in these Index Guidelines as it deems fit. The Index Administrator may also make modifications to these Index Guidelines in any manner that it may deem necessary or desirable, including (but not limited to) to correct any manifest or proven error to cure, correct or supplement any ambiguity or defective provision contained these Index Guidelines. Any such modification or change will take effect accordingly and will be deemed to update these Index Guidelines from its effective date.

### **1.6.2 Calculation Agent**

The Index Administrator acts as Index Calculation Agent. Adjustments to the Index Value are determined by the Index Calculation Agent under supervision of the Index Administrator.

### **1.6.3 Index Allocator**

In order to reflect the economics of the Reference Market and the objective of the Index, the Index Allocator will issue recommendations in relation to the selection and weightings of the Index Components in accordance with these Index Guidelines. The Index Administrator solely selects Index Components and allocates weightings of the Index Components based on the Index Allocator's recommendations.

### **1.7 Publication**

Specifications and information relevant for calculating the Index will be made available on the website [www.lixxinnovation.com](http://www.lixxinnovation.com) and sub-pages.

### **1.8 Historical Data**

Historical data will be recorded in accordance with Article 8 of the Benchmark Regulation, if and as applicable. This means that in such cases all input data and the methodology will be recorded for a minimum of five years.

### **1.9 Licensing**

Licenses to use the Index as benchmark for derivative instruments may be issued by the Index Administrator to stock exchanges, banks, financial service providers and investment houses by the Index Sponsor.

## **2 INDEX METHODOLOGY**

The Index Allocator recommends to the Index Administrator potential Index Components from the Universe of Index Components and the weightings of the Index Components to reflect the Reference Market and the objective of the Index accurately. As such, the recommendations of the Index Allocator are considered input data and the Index Allocator is considered a contributor of input data in accordance with Article 11 of the Benchmark Regulation, to the extent applicable.

When executing the recommendation, the Index Administrator ensures that (i) the selection of the Index Components and (ii) the weightings are in line with the Index Guidelines.

The Index Allocator will review the composition of the Index on an ongoing basis. Index Components may be selected by the Index Administrator from the Universe of Index Components upon recommendation of the Index Allocator for inclusion in the Index if they satisfy the requirements set out in these Index Guidelines. Each Index Component's weighting may be adjusted by the Index Administrator upon recommendation of the Index Allocator. The number of Index Components can change over time.

The Index Value will be determined based on the Official Valuation.

### **2.1 Universe of Index Components**

The relevant categories of instruments out of which Index Components may be selected are set out in [Annex 1](#).

### **2.2 Selection of Index Components**

Out of the Universe of Index Components individual financial instruments can only be used as an Index Component for inclusion in the Index if they meet the Index Component Selection Criteria set out in [Annex 2](#).

### **2.3 Allocation of Index Components**

The Index Administrator assigns the Index Components' weightings upon the Index Allocator's recommendation, provided that such recommendation conforms to the Index Component Selection Criteria set out in [Annex 2](#). The allocation of Index Components is, within the described framework, within the discretion of the Index Allocator as Data Provider.

### **2.4 Changes to Index Components**

An Index Component may be removed from the Index especially if such Index Component

- (i) does not meet the Index Component Selection Criteria at any point in time;

- (ii) does not or no longer qualify for inclusion in the Index.

Index Components can also be removed from the Index to ensure that, at all times, the Index continues to meet its Index objective or composition restrictions. Once the allocation of any removed Index Component is determined, the respective allocation of some or all of the remaining Index Components may be adjusted accordingly. If an Index Component is removed from the Index, a replacement component that meets the Index Component Selection Criteria may be added to the Index.

An Index Component may be added to the Index if it qualifies for inclusion in the Index. Index Components can be added to the Index to ensure that, at all times, the Index continues to meet its Index objective and composition restrictions. Once the allocation of newly added Index Components is determined, the respective allocation of some or all of the Index Components existing prior to the additions may be adjusted accordingly.

### **3 CALCULATION OF THE INDEX**

#### **3.1 Index Formula**

On each Index Valuation Date, the Index Calculation Agent calculates the Index Value. This calculation is based on the Official Valuation.

The Index Calculation Agent will use the following formula to calculate the Index Value:

$$Index_t = \sum_{i=1}^N (W_{ti} \times P_{ti}) - A_t$$

Whereas:

$Index_t$  is the Index Value at time t.

$W_{ti}$  is the number of units of an Index Component in the Index at time t.

$P_{ti}$  is the Official Valuation of each Index Component at time  $t > 0$ .

$A_t$  is the adjustment factor, which is determined at the reasonable discretion of the Index Calculation Agent at the time t with reference to adjustments carried out pursuant to sections 3.4 (*Other Changes*) and 3.5 (*Adjustments Following Distributions and Corporate Actions*).

N is the total number of Index Components.

i is representing an individual Index Component.

#### **3.2 Transaction Fee**

A transaction fee of 0.1% is applied to an amount in the Index Currency which, converted, corresponds to the changed weighting of an Index Component in the Index resulting from any adjustment of the Index. The transaction fee reduces the Index Value as it results in a lower number of units of each Index Component.

#### **3.3 Accuracy**

The value of the Index will be rounded to two (2) decimal places (with halves being rounded up). Calculations on units are rounded to eight (8) decimals (with halves being rounded up).

#### **3.4 Other Changes**

The Index Administrator may at its reasonable discretion amend these Index Guidelines to (i) ensure achievement of the Index objective as defined in these Index Guidelines or (ii) to address any errors,

omission or ambiguities. Such amendments may include changes to the Index Component Selection Criteria or the rules with respect to the composition, calculation and weighting of the Index.

### **3.5 Adjustments Following Distributions and Corporate Actions**

#### **3.5.1 Dividends**

Dividends, interest and other distributions will be allocated to the Index. A Withholding Tax is applicable and will be deducted, before the corresponding unit size of an Index Component is adjusted.

#### **3.5.2 Corporate Actions**

In case of a corporate action on an Index Component, the Index Calculation Agent will assess whether such corporate action has a dilutive or any other effect on the price of the Index Component. In such case, the Index Calculation Agent will make required adjustments and determine the date on which these adjustments become effective. Amongst other things the Index Calculation Agent can consider adjustments executed by an exchange as a result of the corporate action concerning options and futures.

Splits require the recalculation of the "W" parameter if the split ratio is applicable to the price change, as follows:

$$W_{i,t+1} = W_{i,t} * S$$

Whereas:

$W_{i,t+1}$  is the number of units / notional affected in the Index at time t+1

$W_{i,t}$  is the number of units / notional affected in the Index at time t

$S$  Units / notional after the split for every unit / notional before split

Share distributions require the recalculation of the "W" parameter if the distribution ratio is applicable to the price change, as follows:

$$W_{i,t+1} = W_{i,t} * (1 + S)$$

Whereas:

$W_{i,t+1}$  is the number of units / notional affected in the Index at time t+1

$W_{i,t}$  is the number of units / notional affected in the Index at time t

$S$  Units / notional for every unit / notional before distribution

### **3.6 Rebalancing**

Adjustments to the Index according to sections 2.3 (*Allocation of Index Components*) and 2.4 (*Changes to Index Components*) will be processed by the Index Administrator in a timely manner after receipt of the relevant recommendation from the Index Allocator. Any adjustments will be based on closing (end of day) prices of the relevant Index Component. Only in instances where any such recommendation is not in line with the Index objectives the Index Administrator will ignore such recommendation. The Index will be rebalanced each quarter following a relevant rebalancing determination date (each as specified in the table below a "Rebalancing Determination Date").

Fiscal Quarter	Rebalancing Determination Date
4	15 December
1	15 March
2	15 June
3	15 September

In case a scheduled Rebalancing Determination Date is not a Business Day, the Rebalancing Determination Date shall be the next Business Day.

The Index Allocator shall only provide the Index Administrator with its recommendation within the period of the first ten (10) Business Days following a Rebalancing Determination Date (each an "**Allocator Advice Period**"), setting out the affected Index Components. Within the Allocator Advise Period, the Index Allocator is allowed to provide up to five (5) recommendations. If the Index Administrator deems the recommendation to be in line with the Index objective, the Index Administrator shall implement the relevant changes by using closing (end of day) prices of the Business Day following the Business Day of receipt of the relevant recommendation. If a day is not a Business Day, the following day that is a Business Day will be used.

### **3.7 Data Provider**

The recommendations of the Index Allocator relating to the selection of Index Components and their relevant weightings for the purposes of calculating the value of the Index are considered input data and the Index Allocator will therefore act as Data Provider in accordance with the Benchmark Regulation. Other relevant input data, i.e. data used when determining any Official Valuation, will be sourced from publicly available sources (readily available data) to maintain or calculate the Index.

### **3.8 Index Continuity and Market Disruption**

In case of missing, insufficient, inaccurate or unreliable input data or non-compliance with the standards as set out below, for any of the required data to calculate the Index, the Index Administrator

may not calculate and publish the Index. The decision will be taken at the Index Administrator's sole discretion.

In case the minimum requirements and standards set out below are not fulfilled for a considerable time, the Index Administrator, to protect users of the Index, will publish such circumstance either by amending the Index Guidelines, or by notice on its website. Where appropriate, the Index Administrator will consult experts to make the decision.

The minimum requirements for the quantity of input data are:

- A price for each Index Component must be available;
- a weight of each Index Component must be available or calculatable.

The minimum standards for the quality of input data are:

- Data must be reliable and consistent;
- data must be robust;
- data must be verifiable.

### **3.9 Internal Review and Approval of Methodology**

After the preparation of the index related documentation, a review round with regards to whether the requirements of the Benchmark Regulation are reflected and whether there is an operational feasibility for implementation takes place. Thereafter, a revision and further coordination with relevant parties takes place, including a dedicated checklist maintained by the Index Administrator to ensure compliance with the Benchmark Regulation. Such a checklist includes, among other things, documentation requirements of the Benchmark Regulation. After the relevant steps have been successfully completed, the management of the Index Administrator has discretion to approve launching an index. The methodology is reviewed annually.

### **3.10 Consulting Procedures and Significant Change**

In the event of a proposed Significant Change in the Index methodology, it is the responsibility of a relevant party to contact the Index Administrator and notify the relevant request. Such notification must in any case be made in writing or by email. The Index Administrator will subsequently review the case regarding the reasons given.

For the purposes of this section 3.10 "**Significant Change**" means, in each case determined in the Index Administrator's reasonable discretion taking into account the Index Sponsor's interests and Index users at all times:

- (i) Any change which, at the time of the conversion, lead to a change in the Index Value of more than 3% compared to the Index Value prevailing in the absence of such change on the last Index Valuation Day prior to such change; and

- (ii) any methodological adjustment that leads to significant changes of the Index Values in the longer term.

In case of a Significant Change, the Index Administrator will provide updated Index Guidelines on its website. In addition, any licensees will be informed by the Index Administrator about any Significant Change.

## **4 CHANGE HISTORY**

15.09.2020 – 1.0. – Initial version

## **5 CONTACT DATA**

### **Information regarding the Index**

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## 6 DEFINITIONS

Annex	Means an annex to these Index Guidelines, each of which form an integral part of these Index Guidelines
Business Day	Day on which there is neither a Zurich, Switzerland, public holiday nor a Düsseldorf, Germany, public holiday
Data Provider	A contributor of data to maintain or calculate the Index in accordance with Article 11 of the Benchmark Regulation
Index	H2 Technologie Index
Index Administrator	LIXX
Index Allocator	Albrecht, Kitta & Co. Vermögensverwaltung GmbH, a limited liability company ( <i>Gesellschaft mit beschränkter Haftung</i> ) under German law, registered with the commercial register ( <i>Handelsregister</i> ) of the local court ( <i>Amtsgericht</i> ) of Hamburg under HRB 127200 and principal place of business at Stadthausbrücke 8, 20355 Hamburg, Germany
Index Calculation Agent	LIXX
Index Component	Any constituent of the Index selected from the Universe of Index Components
Index Sponsor	Albrecht, Kitta & Co. Vermögensverwaltung GmbH, a limited liability company ( <i>Gesellschaft mit beschränkter Haftung</i> ) under German law, registered with the commercial register ( <i>Handelsregister</i> ) of the local court ( <i>Amtsgericht</i> ) of Hamburg under HRB 127200 and principal place of business at Stadthausbrücke 8, 20355 Hamburg, Germany
Index Valuation Date	Each Business Day on which the Index is calculated
Index Value	Value of the Index on the Index Valuation Date
LIXX	LIXX GmbH, a limited liability company ( <i>Gesellschaft mit beschränkter Haftung</i> ) under German law, registered with the commercial register ( <i>Handelsregister</i> ) of the local court ( <i>Amtsgericht</i> ) of Düsseldorf under HRB 81816 and principal place of business at Fürstenwall 172a, 40217 Düsseldorf, Germany

Official Valuation	The official valuation is based on publicly available data, that has been made available by internationally established information services or exchanges. Such data will include daily end of day closing values of each Index Component, as they are available one Business Day prior to the relevant Index Valuation Day. In case no data is available on the relevant valuation day, the most recent value available (closing), will be considered.
Reference Market	Has the meaning given to such term in section 1.1 ( <i>Summary of Index Specifications</i> ).
Total Return Net Index	Index calculated based on reinvested dividend or coupon payments, reduced by any Withholding Tax.
Universe of Components	Instruments which may be part of the Index as defined in <b><u>Annex 1</u></b> .
Withholding Tax	The withholding tax rate for Germany as published on the LIXX website.

## **ANNEX 1: UNIVERSE OF INDEX COMPONENTS**

Equity securities of companies from the Reference Market.

## ANNEX 2: INDEX COMPONENT SELECTION CRITERIA

This section sets out the selection process for inclusion of a component in the Index (the "**Index Component Selection Criteria**").

On the last Business Day (close-of-business) before a Rebalancing Determination Date (each a "**Selection Day**") the following determinations are made:

1. Securities of companies from the Reference Market, whose average daily trading volume over the previous six (6) months was at least EUR 1 million are selected and whose market capitalization at the time of inclusion into the Index was at least 100 million EUR. The resulting securities are adjusted in discretion of the Index Allocator and form the "**Selection Pool**".
2. Securities out of the Selection Pool are ranked by the ratio of the achieved performance divided by the measured volatility (the "**Selection Factor**"), whereas the relevant period for performance and volatility will be between 0 – 6 months, in discretion of the Index Allocator. Such securities form the "**Filtered Selection Pool**".
3. Securities from the Filtered Selection Pool are selected for inclusion in the Index as follows:
  - The four shares with the highest Selection Factor are selected for inclusion in the Index and receive an initial weighting of 10% each.
  - The four shares with the lowest Selection Factor are selected for inclusion in the Index and receive an initial weighting of 2.5% each.
  - The remaining eight shares ranked from position 5 to 12 are selected for inclusion in the Index and are initially weighted at 6.25% each.

### ANNEX 3: INITIAL INDEX ALLOCATION

ISIN	Name	Weight
KR7336260005	Doosanfc	10.00%
FR0011742329	MCPHY ENERGY	10.00%
NO0010081235	NEL	10.00%
NO0003067902	Hexagon Composites	10.00%
ES0143416115	SIEMENS GAMESA	6.25%
ES0165386014	SOLARIA	6.25%
KR7005380001	HyundaiMtr	6.25%
DK0010268606	VESTAS WIND SYSTEMS A/S	6.25%
FR0011675362	NEOEN	6.25%
DK0060094928	ØRSTED A/S	6.25%
IE00BZ12WP82	LINDE PLC EO 0,001	6.25%
GB00B0130H42	ITM POWER PLC ORD 5P	6.25%
FR0000120073	AIR LIQUIDE	2.50%
CA0585861085	BALLARD POWER SYSTEMS INC	2.50%
GB00BG5KQW09	CERES POWER HOLDINGS PLC ORD 10P	2.50%
NO0010715139	Scatec Solar	2.50%