ICE DATA INDICES RULES AND METHODOLOGY

ICE Global Carbon Futures Index

General Description

The ICE Global Carbon Futures Index (the “Index”) measures the performance of a long-only basket of ICE EUA Futures Contracts (“EUA Contracts”), ICE UK Allowance Futures Contracts (“UKA Contracts”), ICE California Carbon Allowance Futures Contracts (“CCA Contracts”), and ICE Regional Greenhouse Gas Initiative Futures Contracts (“RGGI Contracts”) (collectively, the “Contracts”).

Each EUA Contract is euro-denominated and represents a lot of 1,000 Carbon Emission Allowances (“EUAs”) that are deliverable to or from the Union Registry under the European Union Emissions Trading System (“EU ETS”). Each EUA is an entitlement to emit one metric ton of carbon dioxide equivalent gas.

Each UKA Contract is pound-denominated and represents a lot of 1,000 UK Allowances (“UKAs”) that are deliverable to or from the UK Emissions Trading Registry under the UK Emissions Trading Scheme (“UK ETS”). Each UKA is an entitlement to emit one metric ton of carbon dioxide equivalent gas. UKA Contracts were added to the Index via an extraordinary rebalancing in January 2022.

Each CCA Contract is dollar-denominated and represents a lot of 1,000 California Carbon Allowances (“CCAs”) that are physically delivered greenhouse gas emissions allowances issued by the California Air Resources Board or a linked program under California Assembly Bill 32 “California Global Warming Solutions Act of 2006” and its associated regulations, rules and amendments, all together known as the “California Cap and Trade Program”. Each CCA is an entitlement to emit one metric ton of carbon dioxide equivalent gas.

Each RGGI Contract is dollar-denominated and represents a lot of 1,000 RGGI Allowances (“RGGIs”) that are physically delivered greenhouse gas emissions allowances issued by each state in the RGGI program. The Regional Greenhouse Gas Initiative (RGGI) is a cooperative effort among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont and Virginia to cap and reduce power sector carbon dioxide emissions. Each RGGI is an entitlement to emit one short ton of carbon dioxide gas.

EUA Contracts trade on ICE Endex and clear on ICE Clear Europe. Prior to June 7, 2021, EUA Contracts traded on ICE Futures Europe. UKA Contracts trade on ICE Futures Europe and clear on ICE Clear Europe. CCA and RGGI Contracts trade on the ICE Futures U.S. Energy Division and clear on ICE Clear Europe.

The Index generally utilizes the same calculation methodology that applies to the ICE® BofA® Commodity Index eXtra (MLCX) family of indices, but with certain modifications. Specifically, the modifications include:

- a multi-month annual rebalancing;
- a different method for calculating rebalancing Contract weights;
- a multi-month annual roll methodology;
- a different holiday calendar; and

Refer to important disclosures at the end of the document.
These modifications are explained in detail below. The ICE BofA Commodity Index eXtra Handbook (the “Handbook”) for the MLCH family of indices is available on the ICE Index Platform (https://indices.theice.com) under the Rules & Methodologies tab of the Publications section.

**Index Specifications**

The Index is published in three different versions:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICECRBN</td>
<td>Excess Return</td>
</tr>
<tr>
<td>ICECRBNT</td>
<td>Total Return</td>
</tr>
<tr>
<td>ICECRBNS</td>
<td>Spot Return</td>
</tr>
</tbody>
</table>

The Index is calculated and published every 15 seconds between the hours of 1:30 AM and 7:15 PM New York time to the ICE Consolidated Feed on the ICE Data Indices Commodity Indices channel. The real-time calculation of the Index incorporates trades for the Contracts while the closing calculation of the Index incorporates the daily settlement normally available for the EUA Contracts after 5:00 PM Central European Time, for the UKA Contracts after 4:00 PM London time, and for the CCA and RGGI Contracts after 4:00 PM New York time each day.

The Index base currency is in USD. EUA Contract and UKA Contract prices in the Index are converted from EUR and GBP, respectively, to USD for real-time Index calculations utilizing spot FX rates from ICE Data Derivatives and for the closing Index calculation utilizing the London 4 PM WM/Refinitiv spot FX fixing. The Index incorporates that closing FX fixing into the real-time Index calculation once it is available shortly after 4 PM London time each day.

The Index is calculated on all weekdays except for the Index holidays of New Year’s Day, Good Friday, Easter Monday, and Christmas Day (“Business Days”). When Christmas Day or New Year’s Day falls on a Sunday, the Index is not calculated on the following Monday. When Christmas Day falls on a Saturday, the Index is not calculated on the preceding Friday. When New Year’s Day falls on a Saturday, there is no holiday observed. This holiday calendar matches the trading schedule for the underlying EUA Contracts, which are the highest weighted Contracts in the Index. If any of the underlying Contracts are closed for trading on a Business Day, then the prior day settlement price for that specific Contract will be used in the calculation along with updated FX rates and settlement prices for the other open Contracts in the Index. Index history is available from 12/31/2013.

**Exceptional Market Conditions and Corrections**

The Index administrator retains the right to delay the publication of the opening level of the Index or suspend the publication of the level of the Index if it believes that circumstances prevent the proper calculation of the Index.

If intraday prices for the Contracts are cancelled or revised, the Index will not be recalculated unless the Index administrator decides otherwise.

Where errors have occurred in the determination or calculation of an Index closing value, the decision to make a restatement will be assessed on a case-by-case basis, taking into account the significance, impact, age and scale of the error.

The Index administrator will evaluate Market Disruption Events on an event-by-event basis to determine an appropriate course of action.
Definitions

The Contracts are the futures contracts included in the Index. They include ICE EUA Futures Contracts ("EUA Contracts"), ICE UK Allowance Futures Contracts ("UKA Contracts"), ICE California Carbon Allowance Futures Contracts ("CCA Contracts"), and ICE Regional Greenhouse Gas Initiative Futures Contracts ("RGGI Contracts").

The Contract Production Weights (CPWs) are the weights of the relevant Contracts for purposes of calculating the Index. The CPWs for Roll-In and Roll-Out Contracts are recalculated during the Roll Period according to the methodology described below.

A Market Disruption Event means the occurrence on any Business Day of any one or more of the following circumstances:

(i) The ICE Endex, ICE Futures Europe, and/or ICE Futures U.S. exchanges are not open for trading due to an exchange holiday during the Index Roll Period;
(ii) A material limitation, suspension, or disruption of trading in one or more Contracts which results in a failure by the exchange, on which each applicable Contract is traded, to report an exchange published settlement price for such Contract on the day on which such event occurs or any succeeding day on which it continues;
(iii) Failure by the applicable exchange or other price source to announce or publish the exchange published settlement price for any Contract;
(iv) A suspension of trading in one or more Contracts for which trading does not resume at least ten (10) minutes prior to the scheduled or rescheduled closing time.

The Roll Period is the first 15 Business Days of the months of September, October and November each year. It also represents the period in which the Index undergoes its annual rebalancing.

The Roll-In Contract is the next year vintage / next year December expiration contract month during the Roll Period for CCA and RGGI Contracts. It is the next year December expiration contract month for the EUA and UKA Contracts.

The Roll-Out Contract is the current year vintage / current year December expiration contract month during the Roll Period for CCA and RGGI Contracts. It is the current year December expiration contract month for the EUA and UKA Contracts.

The Percentage Target Weights (PTWs) are the target weights of the relevant Roll-In and Roll-Out Contracts that are utilized to determine the Contract Production Weights during the Roll Period.

The Weight Calculation Day is the Business Day prior to the start of each month of the Roll Period.

Percentage Target Weights & Annual Rebalancing Weights

The Percentage Target Weights (PTWs) for the Roll-In and Roll-Out Contracts change on the Weight Calculation Day.

The annual rebalancing between EUA Contracts, UKA Contracts, CCA Contracts, and RGGI Contracts occurs simultaneously with the rolling of Contracts during each Roll Period. The rebalancing Contract weights are calculated based on the total dollar volume of the Contracts utilizing closing settlement prices, contract sizes (all 1000), and daily volumes.

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The total dollar volume is measured based on the current year December expiration EUA Contracts, current year December expiration UKA Contracts, current year vintage / current year December expiration CCA Contracts, and current year vintage / current year December expiration RGGI Contracts. The measurement period is the six-month period ending five Business Days prior to the first Business Day in September each year.

Prior to the September 2022 annual rebalancing, the rebalancing EUA Contract weight is subject to a maximum weighting of 60% while the rebalancing RGGI Contract weight is subject to a minimum weighting of 10%. There are no constraints for the CCA Contract weight.

Commencing with the September 2022 annual rebalancing, the rebalancing EUA Contract weight is subject to a maximum weighting of 50% while the rebalancing RGGI Contract weight is subject to a minimum weighting of 5%. There are no constraints for the UKA and CCA Contract weights.

**Contract Production Weight**

According to Section 3.3 of the Handbook, the Total Dollar Weights (TDW) are calculated on the Weight Calculation Day of month $j$. Based on this TDW, the Contract Production Weight (CPW) for commodity $i$ in month $j$ is calculated according to the formula:

$$CPW_{ij} = \frac{TDW \times PTW_{ij}}{P_j}$$

where $P_j$ denotes the price of the Contract on the Weight Calculation Day for month $j$.

**Rolling & Rebalancing Mechanism**

The rolling mechanism is similar to that described in Chapter 3 of the Handbook; however, the Index undergoes its roll and rebalancing simultaneously over the three-month Roll Period falling in September, October, and November.

The Index Roll Period runs from the first to the fifteenth Business Day of the months of September, October, and November. The EUA and UKA Contracts roll in 33.33% increments per month over the three-month Roll Period. The EUA and UKA Contracts roll from the current year December expiration contract month to the next year December expiration contract month. For example, starting in September 2022, the EUA and UKA Contracts will start rolling from the December 2022 to December 2023 expiration contract month.

The CCA and RGGI Contracts roll in 33.33% increments per month over the three-month Roll Period. The CCA and RGGI Contracts roll from the current year vintage / current year December expiration contract month to the next year vintage / next year December expiration contract month. For example, starting in September 2022, the CCA and RGGI Contracts will start rolling from the Vintage 2022 December 2022 to Vintage 2023 December 2023 vintage / expiration contract month.

<table>
<thead>
<tr>
<th>Roll Period Month</th>
<th>Roll-In Contract</th>
<th>Roll-Out Contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>33.33%</td>
<td>66.67%</td>
</tr>
<tr>
<td>October</td>
<td>66.67%</td>
<td>33.33%</td>
</tr>
<tr>
<td>November</td>
<td>100.00%</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

With the final rebalancing Contract weights set by the end of August, the September portion of the Roll Period maintains the relative Roll-In Contract and Roll-Out Contract Percentage Target Weights as described above but adjusts them to rebalance one-third of the difference between the rebalancing...
Contract Weights and the sum of the Roll-In Contract and Roll-Out Contract weights as of the Weight Calculation Day. As an example, the below formula demonstrates how the adjusted PTW for the Contract is calculated:

\[
RC_{pw} = RC_{rw} \times \left( (RIC_{w,t} + ROC_{w,t}) + \left( \frac{REB_{tw} - (RIC_{w,t} + ROC_{w,t})}{RF_m} \right) \right)
\]

- \(RC_{pw}\) is the final PTW of the Roll-In or Roll-Out Contract
- \(RC_{rw}\) is the target roll weight of the Roll-In or Roll-Out Contract (as per the table above)
- \(REB_{tw}\) is the rebalancing Contract Weight for the EUA, UKA, CCA, or RGGI Contract
- \(RC_{w,t}\) is the current weight of the Roll-In or Roll-Out Contract as of the Weight Calculation Day
- \(RIC_{w,t}\) is the current weight of the Roll-In Contract as of the Weight Calculation Day
- \(ROC_{w,t}\) is the current weight of the Roll-Out Contract as of the Weight Calculation Day
- \(RF_m\) is the monthly rebalancing factor, which is 3 for September, 2 for October, and 1 for November

In October, the same process is followed but with the modification that one-half of the remaining difference is rebalanced. Finally, in November, 100% of the remaining difference is rebalanced and at the end of that month’s Roll Period, the entire Index allocation to Contracts is in the Roll-In Contracts.

<table>
<thead>
<tr>
<th>Rebalancing Month</th>
<th>Contract Rebalancing Weight Changes (EUA, UKA, CCA, RGGI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>One-third of the difference between the sum of the current weights for the Roll in and Roll Out Contracts and the rebalancing Contract Weights</td>
</tr>
<tr>
<td>October</td>
<td>One-half of the remaining difference</td>
</tr>
<tr>
<td>November</td>
<td>100.00% of the remaining difference</td>
</tr>
</tbody>
</table>

**Extraordinary Rebalancing for UKA Contract Inclusion - January 2022**

The inclusion of UKA Contracts to the Index occurs via an extraordinary rebalancing taking place over the first 15 Business Days of January 2022, commencing after the close of January 3, 2022 and ending after the close of January 21, 2022. The introduction of the UKA Contracts follows a similar process as that of the annual rebalancing above, with 100% of the adjustments taking place in a single month and with the rebalancing Contract Weights set as 54% for the EUA Contracts, 27% for the CCA Contracts, 9% for the RGGI Contracts, and 10% for the UKA Contracts.

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