



Methodology (including Key Elements)

CO2 Removal Certificate (CORC) Index Family

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Change Log

Date	Ver.	Section	Change
September 29, 2022	1.1	New section 5.2 Appendix 1	Adding an Error procedure if Errors in Input Data Adding new methods to be taken into consideration Clarification of how currency is handled when a transaction is not denominated in EUR and how volume is handled when there is difference between the volume when the transaction is settled compared to when the transaction was entered. Adding definition of a which trades can be considered as “spot”, and therefore be included in the calculation
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Definitions

Methodology	means the methodology for the provision and calculation of the CORCX.
CORC	means CO2 Removal Certificate
CORCX	means the CORC Index family.
Nasdaq Copenhagen	means Nasdaq Copenhagen A/S, the index provider of the CORCX.
Input Data	means price and volume from actual carbon removals contract trades in the different methods traded on Puro.earth, where prices and corresponding volumes have been traded during the Reporting Period. Eligible trade types are spot and pre-purchase agreement transactions
Methods	means the different Carbon removal methods, which transactions are made according to on Puro.earth. Please see appendix 1.
Index Value(s)	means the volume weighted average price per carbon removal method (add how many indices) and the volume weighted average price across all methods.
Reporting Period	means the period in which transactions have been traded and which serves as the underlying for the Input Data reported to Nasdaq Copenhagen by Puro.earth for calculation of the CORCX.
Puro.earth	Puro.earth is the world's first marketplace for carbon removal. Puro.earth helps companies globally in their science-based journey to net-zero carbon footprint and accelerates the carbon removal economy.

1. General

1.1 Introduction

This document sets out the Methodology that Nasdaq Copenhagen uses for the provision and calculation of the CORC Index (CORCX) family of indices. The CORCX is not a benchmark as defined in Regulation (EU) 2016/1011 (the “BMR”). CORCX does not fall under the scope of the BMR and is, therefore, not governed by BMR requirements.

1.2 Index Family Name

The CORC Index or CORCX.

1.3 Index ISIN

There are no ISINs for the indices in this family of indices.

1.4 Index Type

The indices in this family of indices have commodities as their underlying assets in accordance with the definition in Article 3(1)(23) of the BMR.

1.5 Family of Indices Description

The CORCX is created with the objective to create indices that reflect the market price for carbon removal contracts traded on Puro.earth. The CORCX is determined based on Input Data composed of average price and volume from actual traded transactions reported by Puro.earth to Nasdaq Copenhagen by Puro.earth.

The CORCX index family is divided into indices determined by different methods mentioned in Appendix 1. If Nasdaq and Puro.earth deem it appropriate, a Puro.earth method may be split into distinct sub-categories. This could be done for reasons including, but not limited to, observed differences in the transaction, valuation, or other market fundamentals across one or more sub-categories within a given method. Sub-categories would be handled in the same way as a method in respect of the Methodology. In addition to the individual methods, Nasdaq Copenhagen calculates one index with the grand total across all methods. Each index includes the volume weighted average price per its method, defined as the Index Value.

Puro.earth is the owner of the intellectual property rights and trademarks in the CORCX and may grant third parties the right to use the indices in accordance with Section 7 and subject to an agreement.

1.6 Rationale for Creating the Indices

The carbon removal market is an emerging market, and there is only limited liquidity and transparency about pricing. The CORCX is created with the purpose to provide more transparency on the price for carbon removals in the market.

1.7 Currency

The CORCX Index Values are provided in Euro (EUR).

2. Physical Commodity Subject to the Indices

The CORCX measures the periods price for the indices, composed by the different methods mentioned in Appendix 1. The Indices represent the spot and pre-purchase agreement transactions done on Puro.Earth trading platform.

3. Index Determination

3.1 Input Data

3.1.1 Input Data Included in the Indices

The Index Value in this family of indices is determined using Input Data with transactions in certificates of carbon removals as the underlying instrument. Input Data for the index calculations is reported to Nasdaq Copenhagen by Puro.earth in accordance with Section 3.1.6 and will be included in the calculation of the Index Values. All transactions matched in the Reporting Period where the planned delivery date is less than 182 days from the transaction date will be included.

The Input Data are limited to transactions resulting from market negotiations at arm's-length, wherein buyer and seller endeavor to establish fair market value for the asset in question.

Only for methods with more than one project or issuer there will be calculated a Reference Price Value. The methods with only one project or issuer will be part of the Reference Price Value across all the method.

Transactions not traded on Puro.earth will not be included.

3.1.2 Price (P) and Volume Format

Prices in Input Data are reported in Euro (EUR). Prices and volumes in Input Data shall be reported for each of the methods. Prices in Input Data shall be rounded off to two decimals in accordance with general rounding rules. Volumes in Input Data are reported in tons with maximum 2 decimals.

The price and volume agreed upon when the trade is entered into is used in the calculation of Index Values. Consequently, if a trade would be denominated in a non-EUR currency the currency rate at time of the settlement will not be applicable and therefore no change in the historical Index Values will be made. And if the volume of a trade would be adjusted at delivery due to any delivery problems no change of the historical Index Values will be made.

3.1.3 Index Weights

The index across the different methods will take into consideration the importance of the methods when it comes to price creation. To do this, the following criteria's will be used for the weightings of each method:

1. An existing method will need to have transactions in at least 3 months out of the 6 months the weighting is based on
2. A new method which has transactions in month 6 of the 6-month period which the weighting of the different methods is based on

The index weighting will be calculated based on the volume of the transactions in each method doing the 6-month period described below:

$$W_{jt} = \frac{\sum V_t}{\sum V_{total_t}}$$

W_{jt} = Weighting of each method at time t

V_{jt} = Volume of transactions in 6-month period.

V_{total_t} = Volume of all clarified transactions in 6-month period.

The index weightings will be updated bi-annually. The re-calculation of the index weights will be done in March and September. The weights will in March be based on the transaction volumes from September 1st to February 28th, and for September re-calculation the transactions volumes from March 1st to August 31st will be used.

3.1.4 Re-balancing of the index weights

Should a method not have had any transactions during 4 consecutive months, the weightings will be re-calculated, and the re-balancing will exclude the constituent which doesn't have transactions in the last four consecutive months.

3.1.5 Minimum Input Data

Should a method not have had any transactions during the Reporting Period, the average price from the previous Reporting Period will be used.

New methods should have at least 3 transactions in the reporting period before an Index Value will be calculated.

3.1.6 Submission of Input Data

Input Data for the applicable Reporting Period is reported to Nasdaq Copenhagen by Puro.earth first working day of each Reporting Period. The Input Data will be provided to Nasdaq Copenhagen in excel format as specified in procedure manual.

3.2 Calculation of the Index Value

3.2.1 Formula for Calculation of the Index Value

Index Value per method

$$P_{j,t} = \frac{P_{i,j,t} * V_{i,j,t}}{V_{j,t}}$$

$P_{j,t}$ = Index Value per method j at time t.

$P_{i,j,t}$ = Price per transaction i in EUR, per method j at time t.

$V_{i,j,t}$ = Volume per transaction i, per method j at time t.

$V_{j,t}$ = Total volume per method at time t.

Index Value across all methods

$$I_t = \sum_{j=1}^n (P_{j,t} * W_{j,t})$$

I_t	=	Total Index Value at time t.
$P_{j,t}$	=	Index Value per method in EUR j at time t.
$V_{j,t}$	=	Volume per method j at time t.
n	=	Number of methods
$W_{j,t}$	=	Weighting of methods. The weighting is calculated bi-annually and based on the number of transactions during the Reporting Period as specified in section 3.1.3.

3.2.2 Rounding off

The Index Value is rounded off to two decimals in accordance with general rounding rules.

3.2.3 Calculation Procedures

Nasdaq Copenhagen is responsible for the Reporting Periods calculation of the Index Value.

4. Index Dissemination

4.1 Dissemination Procedures

Nasdaq Copenhagen publishes the following Index Value per method and CORCX in this family of indices:

1. The Index Values based on transaction with less than or 182 days to planned delivery
2. The Index Values per method based on transaction with more than 182 days to planned delivery

The total reported volume across methods Nasdaq Copenhagen publishes monthly the change in Index Values, described under bullet 1 above compared to last Reporting Period, and for the total price across all indices also last 6 months and YTD, expressed in EUR and %deviation. Index Values are also published as a 12-month graphical representation. The Index Values are published on the third business day after the Reporting Period ends.

Bi-annual Nasdaq Copenhagen will publish future deliveries Index Value per method with the indicative price for the transactions where the planned delivery date is more than 182 days from the transaction date. If there have been less than two transactions, the disclosure will be for the last 12 months. The total reported volume across methods and the future delivery Index Value will be published bi-annually together with the updated weights.

4.2 Error Procedures if Errors in Input Data

If Nasdaq Copenhagen discovers any errors in the Input Data after disseminating the Index Values, and the effect of such error on one or more Index Values in the values is above 10%, Nasdaq Copenhagen will recalculate and disseminate all the Index Values as long as the correction is done before Day 20 in the Reporting Month.

5. Review, Approval and Changes of the Methodology

5.1 Periodic Review of the Methodology

At least annually, the Methodology will be reviewed by Nasdaq Copenhagen and Puro.earth together.

5.2 Changes of the Methodology

Nasdaq Copenhagen retains the right to amend the Methodology. However, such measure will only be taken after having consulted Puro.earth. All changes are made public on the Nasdaq's website.

5.3 Stakeholder Feedback

Feedback from users regarding the CORCX can be submitted through the Nasdaq Copenhagen website: <https://www.nasdaq.com/solutions/nasdaq-benchmark-administration>

6. Disclaimer

6.1 Use of the CORCX

CORCX shall not be used to settle or clear or be used as reference in financial or physical contracts without Nasdaq Copenhagen's prior written consent. CORCX, any other trade name, trademark, service mark,

copyright, or patent of Puro.earth registered or unregistered, or any other intellectual property of Nasdaq Copenhagen (or its affiliates) shall not be used without Nasdaq Copenhagen's prior written consent.

6.2 Limitations of Liability

Nasdaq Copenhagen assumes no liability for loss or damages related to or arising out of the use of the CORCX. Nasdaq Copenhagen expressly disclaims all warranties of accuracy, completeness, merchantability, or fitness for a particular purpose with respect to the CORCX. Neither Nasdaq Copenhagen nor any third party make any express or implied warranties or representations regarding the results which may be obtained as a consequence of the use of CORCX or regarding the value of the CORX at any given time. Nasdaq Copenhagen shall in no case be liable for errors or defects in the CORCX nor obliged to provide notice of, or publish, errors in the CORCX.

Appendix 1 – Carbon Removal Method

The following methods will be taken into consideration when evaluating the Input Data:

Puro.earth method	Sub-category of method	Included in composite index (CORCX)	Individual index on method	Code
Biochar	n/a	Y	Y	CORCCHAR
Woody Building Element	n/a	Y	Y	CORCWOOD
Carbonated Building Element	n/a	N	N	CORCROCK
Woody Biomass Burial	n/a	N	N	CORCBURY
Geologically Stored Carbon	Y	-	-	
Direct Air Capture		N	N	CORCAIR
Bio-Energy Capture		N	N	CORCBECCS

For more details about each method please visit Puro.earth website: <https://puro.earth/>