



CRU Price Assessment Methodology

Carbon Products

Independent *expert* intelligence

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Price Methodology

Scope

This Methodology and Definitions Guide covers prices for physically traded Carbon Products in all geographical markets and should be read in conjunction with the CRU Group Compliance Framework and Methodology Guide (Group Compliance Framework). It details commodity-specific methodologies which have precedence, with all other aspects covered by the Group Compliance Framework.

Methodology

Rationale

This methodology was developed in consultation with the industry (including through our annual Underlying Market Conditions Review), allowing CRU to capture market liquidity and establish prices that are reliable and representative of the market. Specification definitions such as price assessment frequency, incoterms, currencies, size/volumes, units and others are aligned with the relevant market requirements and industry conventions.

The methodology blends strict adherence to methodological rules with limited but necessary application of expert judgement, detailed below, in order to produce a price that benefits from rigour, Price Assessor expertise and discretion.

Liquidity is enhanced by a normalisation process which allows for the submission of data which can be standardised to CRU's strict definition but is sourced from a wider array of data.

Transaction data is prioritised as an input to these prices to help ensure they reflect the actual spot market. Inclusion of other price types detailed in the Group Compliance Framework is permissible where this does not compromise accuracy but enhances liquidity.

Final published prices are either single point or range values according to the various levels of liquidity and transaction frequency across these markets.

Prices are published at a combination of monthly and quarterly frequencies, representing the cadence of market transactions and contract agreements. For settlement windows containing a mix of quarterly and semester pricing (6-month settlement period), CRU Price Assessors will use discretion when including mixed tenor prices, to better reflect the true market conditions at the time of publication.

Data Providers

CRU price assessments are based on regular contact with a wide network of market participants situated at critical nodes in the supply chain. This network is constantly reviewed to seek a balance of buyers and sellers that are representative of the market. Our network of market participants providing regular indications and data are defined as 'data providers'.

Data providers must have access to data relating to actual spot market transactions (a purchase or a sale), or if permitted by the methodology, bid/offer information or be able to provide a credible opinion on such prices in the absence of any other data over the relevant time period. They are therefore typically employed in sales or marketing functions on the sell side and purchasing functions on the buy side, or act in a trading function. Data Providers may also include individuals in finance functions if they can provide the same price information.

Each data provider is required to meet the criteria stipulated in Section 2.4 of the CRU Group Compliance Framework and Methodology Guide and must exist on a list of approved data providers before their data can be considered for admission into published prices.

Data Submitted and Submission Processes

Data providers can submit prices to CRU by telephone, email, private one-to-one instant messenger services, other private means of communication or where applicable, proprietary CRU system.

Admissible price data are concluded and reported transactions, confirmed bids and offers, indicative bids and offers and opinion. The type of price data submitted should be indicated to CRU. Transaction data is prioritised as an input and to that extent the hierarchy of acceptable price types follows that described in Section 3.1 of the CRU Group Compliance Framework and Methodology Guide. Where transaction data is submitted, CRU seeks to verify each deal with both parties but where this is not possible, a third or fourth party may be consulted.

For each product, Data Providers provide CRU with a single price figure or a range of prices relating to spot business, except where indicated in the price Definition (e.g. if a contract price).

Data providers are to provide CRU with admissible price data relating to market activity within the following windows:

Monthly prices

- 16:00 China Standard Time one calendar month prior to the Tuesday of the week of publication and 16:00 China Standard Time on the Tuesday of the week of publication.

Quarterly Prices

- 17:00 UK one calendar quarter prior to the Tuesday of the week of publication and 17:00 UK on the Tuesday of the week of publication.

Information must be submitted to CRU by window close times if it is to be eligible for admission to the subsequent price assessment.

Data Submission Dependency and Minimum Threshold

CRU seeks to receive market information from a broad range of active data sources and seeks to increase the number of companies willing to submit market data. If a limited number of market participants are active in the market, and the market data received constitutes a significant proportion of the total data on which the assessment is based, CRU will use expert judgement on whether to exclude, include or defer the indication received until more information is received. This expert judgement would be based on observation of the previous price, short term historical price trends, other quantitative market data including prices in other related active markets, producer price change announcements, qualitative information such as that received from interactions with market participants or other CRU Price Assessors, and other sources of information relevant to the market.

CRU does not outline minimum data thresholds to determine price assessments covered in this methodology document to avoid establishing non-representative assessments that may be deemed unrepeatable. Periods of liquidity differ across markets and data thresholds could result in price assessments that do not accurately reflect the market. Price Assessors, instead, aim to source data from a wide range of industry participants to establish premium assessments, in line with the individual premium market data specifications, such as size, timing, loading locations, outlined in this methodology.

When no admissible data is received, Price Assessors follow the processes set out in the "Price determination in an illiquid market" section and expert judgement would be used to determine the final price value. Further details can be found under Section 2.1 of the CRU Group Compliance Framework and Methodology Guide.

Final Price Assessment

Expert Judgement

Expert judgement may apply to decisions on what type of price data is submitted; if the deal is executed at arms-length; if normalisation of price data submitted is required; the means of any normalisation, and the inclusion of a data point in the calculation of the final price (exclusion of outliers).

A Price Assessor will consult with one or more colleagues before any application of expert judgement if in any doubt, or where collective input would improve the quality of a judgement.

Consistency in the application of expert judgement is achieved through a combination of selection, formal and informal training and review, supervision and control processes as detailed in section 4.5 of the CRU Group Compliance Framework and Methodology Guide.

Normalisation

Data which meets the precise price specification is eligible for admission without any adjustments. Data which does not fit the specification may still be eligible as an input to the price, but would be subject to a normalisation process.

FOB prices are derived either from direct sales from producers to traders/buyers or from netbacks on CIF sales based on estimated or actual freight rates.

Normalisation is an essential price adjustment process used to align reported market information with a pricing methodology. Decisions to normalise a price and/or choice of values used in the normalisation process are forms of expert judgement.

Exclusion of Outliers

A Price Assessor may use expert judgement in the exclusion of a data point as an input to the calculation of the final price. In doing so they would consider the range and distribution of data collected in the same timeframe from other data providers; previous data received from the same data provider; non-price information received from the data provider; market state and direction information from any other source. Inclusion or exclusion of input data in the final price is explicit and recorded.

Price Determination in an Illiquid Market

In the case that there are no admissible price data that meet, or after normalisation can meet, the required specification, the prior published price will be rolled over and used as the final benchmark value for the new period.

In the case of low market liquidity but where a single admissible data point has been received, this single data point would be the sole determinant of the value of the price in the relevant period.

Price Verification

Information from data providers and the final price assessments are captured and established in the CRU Prices System (CPS), or for SMU prices the SMU survey and SMU's pricing workbooks. The final prices are approved by another Price Assessor or the editor.

Deactivated Prices

A price assessment will remain active as long as there are sufficient buyers, sellers and/or traders for the Price Assessor to make an accurate assessment. If the quotation suffers from limited transparency or if business dynamics change, it may be deactivated following market consultation. Its history will still be available, but no further information will be collected for that assessment from the time it is deactivated.

Final Benchmark Publication

Prices are published in the CRU service/s below via CRU Online; DataLab (CRU's data delivery platform), data feeds including APIs and in some cases may be distributed via channel partners. Price publication dates may be varied around public holidays, in which case customers will be notified in advance.

Prices published in: Carbon Product Service

Monthly prices are first published on CRU Online at 14:00 UK on the fourth Wednesday of each month
Quarterly prices are first published on CRU Online at 14:05 UK on the fourth Wednesday of each quarter.

Price Detail

Carbon Products

China

Carbon Products, Anodes, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Anodes, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Not applicable
Price Basis	EXW
Quality	Typical anode
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Anodes, Spot price; China, FOB USD/t

Price Series Name	Carbon Products, Anodes, Spot price; China, FOB
Currency	USD
Weight Units	t
Attributes	Not applicable
Price Basis	FOB
Quality	Typical anode
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Premium Calcined Coke, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Premium Calcined Coke, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % ≤ 1.50 (2A), Sulphur, %≤ 3.50 (2B, 2C).Volatile, %≤ 0.50. Ash, % ≤ 0.50. Real Density, %≥ 2.05
Price Basis	EXW
Quality	Premium Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Regular Calcined Coke, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Regular Calcined Coke, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % 3.00 - 3.50. Volatile, %≤ 0.50. Ash, %≤ 0.50. Real Density, %≥ 2.05
Price Basis	EXW
Quality	Regular Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Low Sulphur Calcined Coke, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Low Sulphur Calcined Coke, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % ≤0.50. Volatile, % ≤0.50. Ash, % ≤0.50. Real Density, % ≥2.05
Price Basis	EXW
Quality	Low Sulphur Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Calcined Coke, Spot price; China, FOB USD/t

Price Series Name	Carbon Products, Calcined Coke, Spot price; China, FOB
Currency	USD
Weight Units	t
Attributes	Sulphur, %: ≤ 1.50 (A), ≤ 3.50 (B). Volatile, %: ≤ 0.50. Ash, %: ≤ 0.50. Vanadium, ≤400. Real Density, %: ≥2.05.
Price Basis	FOB
Quality	Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot and contract
Counterparties	Location: China
Assessment Notes	Monthly assessment. Reflects typical export grade calcined petroleum coke.

Carbon Products, Coal Tar Pitch, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Coal Tar Pitch, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Softening point, °C: 103-120. Quinoline Insoluble, %: 7-12. Ash, %: ≤0.50.
Price Basis	EXW
Quality	Coal Tar Pitch
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment. Reflects typical coal tar pitch (i.e liquid coal tar pitch).

Carbon Products, Coal Tar Pitch, Spot price; China, FOB USD/t

Price Series Name	Carbon Products, Coal Tar Pitch, Spot price; China, FOB
Currency	USD
Weight Units	t
Attributes	Softening point, °C: 103-120. Quinoline Insoluble, %: 7-12. Ash, %: ≤0.50.
Price Basis	FOB
Quality	Coal Tar Pitch
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Contract
Counterparties	Location: China
Assessment Notes	Monthly assessment. Reflects typical coal tar pitch. Monthly assessment.

Carbon Products, Coal Tar, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Coal Tar, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Not applicable
Price Basis	EXW
Quality	Coal Tar
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment. Reflects typical coal tar

Carbon Products, Green Coke, 2A 2B 2C, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Green Coke, 2A 2B 2C, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % ≤ 1.00 (2A), Sulphur, %≤ 1.50 (2B, 2C). Volatile, %≤ 12. Ash, % ≤ 0.35 (2A), Ash, %≤ 0.40 (2B), Ash, %≤ 0.450 (2C)
Price Basis	EXW
Quality	2A/2B Grade Green Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Green Coke, 3A 3B 3C, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Green Coke, 3A 3B 3C, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % ≤ 2.00 (3A), Sulphur, %≤ 2.50 (3B), Sulphur, %≤ 3.0 (3C). Volatile, %≤ 12. Ash, %≤ 0.50
Price Basis	EXW
Quality	3A/3B/3C Grade Green Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Carbon Products, Green Coke, No. 1, Spot price; China, EXW USD/t

Price Series Name	Carbon Products, Green Coke, No. 1, Spot price; China, EXW
Currency	USD
Weight Units	t
Attributes	Sulphur, % ≤ 0.50. Volatile, %≤ 12. Ash, %≤ 0.30. Real Density, % ≥ 2.05. Coke Powder, %≤ 35. Silicon, µg/g ≤300. Vanadium, µg/g ≤150. Iron µg/g ≤250, Calcium, µg/g ≤200. Nickel, µg/g ≤150. Sodium, µg/g ≤100.
Price Basis	EXW
Quality	1A/1B Grade Green Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: China
Assessment Notes	Monthly assessment

Europe

Carbon Products, Calcined Coke, Contract price; Europe, CIF USD/t

Price Series Name	Carbon Products, Calcined Coke, Contract price; Europe, CIF
Currency	USD
Weight Units	t
Attributes	Sulphur, %: ≤1.00–2.50. Vanadium, ppm: 150–250.
Price Basis	CIF
Quality	Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Quarterly contract
Counterparties	Location: Rotterdam
Assessment Notes	Quarterly assessment

Carbon Products, Coal Tar Pitch, Contract price, Europe, FOB USD/t

Price Series Name	Carbon Products, Coal Tar Pitch, Contract price, Europe, FOB
Currency	USD
Weight Units	t
Attributes	Softening point, °C: 103-120. Quinoline Insoluble, %: 4-7. Typical Ash, %: ≤0.50.
Price Basis	FOB
Quality	Coal Tar Pitch
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Not applicable
Counterparties	Location: Europe
Assessment Notes	Quarterly assessment. Reflects typical coal tar pitch (i.e liquid coal tar pitch)

Carbon Products, Coal Tar, Contract price; Europe, FOB EUR/t

Price Series Name	Carbon Products, Coal Tar, Contract price; Europe, FOB
Currency	EUR
Weight Units	t
Attributes	Not applicable
Price Basis	FOB
Quality	Coal Tar
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Spot
Counterparties	Location: Europe
Assessment Notes	Quarterly assessment

Middle East

Carbon Products, Calcined Coke, Contract price; Middle East, CIF USD/t

Price Series Name	Carbon Products, Calcined Coke, Contract price; Middle East, CIF
Currency	USD
Weight Units	t
Attributes	Sulphur, %: ≤1.50–3.50. Vanadium, ppm: 150–350.
Price Basis	CIF
Quality	Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Quarterly contract
Counterparties	Location: Delivered Middle East Smelter
Assessment Notes	Quarterly assessment

USA

Carbon Products, Calcined Coke, Contract price; USA, FOB USD/t

Price Series Name	Carbon Products, Calcined Coke, Contract price; USA, FOB
Currency	USD
Weight Units	t
Attributes	Sulphur, %: 2.50–3.50. Vanadium, ppm: 250–350.
Price Basis	FOB
Quality	Calcined Petroleum Coke
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Quarterly contract
Counterparties	Location: US Gulf Coast
Assessment Notes	Quarterly assessment. Reflects typical calcined petroleum coke.

Carbon Products, Coal Tar Pitch, Contract price; USA, FOB USD/t

Price Series Name	Carbon Products, Coal Tar Pitch, Contract price; USA, FOB
Currency	USD
Weight Units	t
Attributes	Softening point, °C: 108-113. Quinoline Insoluble, %: 8-16. Ash, %: ≤0.50.
Price Basis	FOB
Quality	Coal Tar Pitch
Terms	Not applicable
Duties & Tariffs	Where applicable
Delivery	Quarterly and semester
Counterparties	Location: Supplier Facility, USA and Canada
Assessment Notes	Quarterly assessment. Reflects typical coal tar pitch (i.e liquid coal tar pitch)

Glossary of Terms

INCO TERM RULES FOR ANY MODE OR MODES OF TRANSPORT:

EXW – Ex-Works
 FCA – Free Carrier
 CPT – Carriage Paid To
 CIP – Carriage and Insurance Paid To
 DAT – Delivered at Terminal
 DAP – Delivered at Place
 DDP – Delivered Duty Paid

INCO TERM RULES FOR SEA AND INLAND WATERWAY TRANSPORT:

FAS – Free Alongside Ship
 FOB – Free On Board
 CFR – Cost and Freight
 CIF – Cost Insurance and Freight

COUNTRY ABBREVIATIONS USED:

We use ISO 3166 alpha-2 standard country codes



CRU

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