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ARGUS RUSSIAN CRUDE EXPORTS

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The most up-to-date Argus Russian Crude Exports methodology is available on www.argusmedia.com

Methodology overview

Methodology rationale

Argus strives to construct methodologies that reflect the way the market trades. Argus aims to produce price assessments which are reliable and representative indicators of commodity market values and are free from distortion. As a result, the specific currencies, volume units, locations and other particulars of an assessment are determined by industry conventions.

In the Russian crude export markets, Argus publishes physical market prices in the open market as laid out in the specifications and methodology guide. Argus uses the trading period deemed by Argus to be most appropriate, in consultation with industry, to capture market liquidity.

In order to be included in the assessment process, deals must meet the minimum volume, delivery, timing and specification requirements in our methodology. In illiquid markets, and in other cases where deemed appropriate, Argus assesses the range within which product could have traded by applying a strict process outlined later in this methodology.

Survey process

Argus price assessments are informed by information received from a wide cross section of market participants, including producers, consumers and intermediaries. Argus reporters engage with the industry by proactively polling participants for market data. Argus will contact and accept market data from all credible market sources including front and back office of market participants and brokers. Argus will also receive market data from electronic trading platforms and directly from the back offices of market participants. Argus will accept market data by telephone, instant messenger, email or other means.

Argus encourages all sources of market data to submit all market data to which they are a party that falls within the Argus stated methodological criteria for the relevant assessment. Argus encourages all sources of market data to submit transaction data from back office functions.

Throughout all markets, Argus is constantly seeking to increase the number of companies willing to provide market data. Reporters are mentored and held accountable for expanding their pool of contacts. The number of entities providing market data can vary significantly from day to day based on market conditions.

For certain price assessments identified by local management, if more than 50pc of the market data involved in arriving at a price assessment is sourced from a single party the supervising editor will engage in an analysis of the market data with the primary reporter to ensure that the quality and integrity of the assessment has not been affected.

Market data usage

In each market, Argus uses the methodological approach deemed to be the most reliable and representative for that market. Argus will utilise various types of market data in its methodologies, to include:

- Transactions
- Bids and offers
- Other market information, to include spread values between grades, locations, timings, and many other data.

In many markets, the relevant methodology will assign a relatively higher importance to transactions over bids and offers, and a relatively higher importance to bids and offers over other market information. Certain markets however will exist for which such a hierarchy would produce unreliable and non-representative price assessments, and so the methodology must assign a different relative importance in order to ensure the quality and integrity of the price assessment. And even in markets for which the hierarchy normally applies, certain market situations will at times emerge for which the strict hierarchy would produce non-representative prices, requiring Argus to adapt in order to publish representative prices.

Verification of transaction data

Reporters carefully analyse all data submitted to the price assessment process. These data include transactions, bids, offers, volumes, counterparties, specifications and any other information that contributes materially to the determination of price. This high level of care described applies regardless of the methodology employed. Specific to transactions, bids, and offers, reporters seek to verify the price, the volume, the specifications, location basis, and counterparty. In some transactional average methodologies, reporters also examine the full array of transactions to match counterparties and arrive at a list of unique transactions. In some transactional average methodologies, full details of the transactions verified are published electronically and are accessible by subscribers. The deals are also published in the daily report.

Several tests are applied by reporters in all markets to transactional data to determine if it should be subjected to further scrutiny. If a transaction has been identified as failing such a test, it will receive further scrutiny. For assessments used to settle derivatives and for many other assessments, Argus has established internal procedures that involve escalation of inquiry within the source's company and escalating review within Argus management. Should this process determine that a transaction should be excluded from the price assessment process, the supervising editor will initiate approval and, if necessary, documentation procedures.

Primary tests applied by reporters

- Transactions not transacted at arm's length, including deals between related parties or affiliates.
- Transaction prices that deviate significantly from the mean of all transactions submitted for that day.
- Transaction prices that fall outside of the generally observed lows and highs that operated throughout the trading day.
- Transactions that are suspected to be a leg of another transaction or in some way contingent on an unknown transaction.
- Single deal volumes that significantly exceed the typical transaction volume for that market.
- Transaction details that are identified by other market participants as being for any reason potentially anomalous and perceived by Argus to be as such.

- Transaction details that are reported by one counterparty differently than the other counterparty.
- Any transaction details that appear to the reporter to be illogical or to stray from the norms of trading behaviour. This could include but is not limited to divergent specifications, unusual delivery location and counterparties not typically seen.
- Transactions that involve the same counterparties, the same price and delivery dates are checked to see that they are separate deals and not one deal duplicated in Argus records.

Secondary tests applied by editors for transactions identified for further scrutiny

Transaction tests

- The impact of linkage of the deal to possible other transactions such as contingent legs, exchanges, options, swaps, or other derivative instruments. This will include a review of transactions in markets that the reporter may not be covering.
- The nature of disagreement between counterparties on transactional details.
- The possibility that a deal is directly linked to an offsetting transaction that is not publicly known, for example a “wash trade” which has the purpose of influencing the published price.
- The impact of non-market factors on price or volume, including distressed delivery, credit issues, scheduling issues, demurrage, or containment.

Source tests

- The credibility of the explanation provided for the outlying nature of the transaction.
- The track record of the source. Sources will be deemed more credible if they
 - Regularly provide transaction data with few errors.
 - Provide data by Argus’ established deadline.
 - Quickly respond to queries from Argus reporters.
 - Have staff designated to respond to such queries.
- How close the information receipt is to the deadline for information, and the impact of that proximity on the validation process.

Assessment guidelines

When insufficient, inadequate, or no transaction information exists, or when Argus concludes that a transaction based methodology will not produce representative prices, Argus reporters will make an assessment of market value by applying intelligent judgment based on a broad array of factual market information. Reporters must use a high degree of care in gathering and validating all market data used in determining price assessments, a degree of care equal to that applying to gathering and validating transactions. The information used to form an assessment could include deals done, bids, offers, tenders, spread trades, exchange trades, fundamental supply and demand information and other inputs.

The assessment process employing judgment is rigorous, replicable, and uses widely accepted valuation metrics. These valuation metrics mirror the process used by physical commodity traders

to internally assess value prior to entering the market with a bid or offer. Applying these valuation metrics along with sound judgment significantly narrows the band within which a commodity can be assessed, and greatly increases the accuracy and consistency of the price series. The application of judgment is conducted jointly with the supervising editor, in order to be sure that guidelines below are being followed. Valuation metrics include the following:

Relative value transactions

Frequently transactions occur which instead of being an outright purchase or sale of a single commodity, are instead exchanges of commodities. Such transactions allow reporters to value less liquid markets against more liquid ones and establish a strong basis for the exercise of judgment.

- Exchange one commodity for a different commodity in the same market at a negotiated value.
- Exchange delivery dates for the same commodity at a negotiated value.
- Exchange a commodity in one location for the same commodity at another location at a negotiated value.

Bids and offers

If a sufficient number of bids and offers populate the market, then in most cases the highest bid and the lowest offer can be assumed to define the boundaries between which a deal could be transacted.

Comparative metrics

- The relative values between compared commodities are readily discussed in the market and can be discovered through dialogue with market participants. These discussions are the precursor to negotiation and conclusion of transactions.
- Comparison to the same commodity in another market centre.
- Comparison to a more actively traded but slightly different specification commodity in the same market centre.
- Comparison to the same commodity traded for a different delivery timing.
- Comparison to the commodity’s primary feedstock or primary derived product(s).
- Comparison to trade in the same commodity but in a different modality (as in barge versus oceangoing vessel) or in a different total volume (as in full cargo load versus partial cargo load).

Volume minimums and transaction data thresholds

Argus typically does not establish thresholds strictly on the basis of a count of transactions, as this could lead to unreliable and non-representative assessments and because of the varying transportation infrastructure found in all commodity markets. Instead, minimum volumes are typically established which may apply to each transaction accepted, to the aggregate of transactions, to transactions which set a low or high assessment or to other volumetrically relevant parameters.

For price assessments used to settle derivatives, Argus will seek to establish minimum transaction data thresholds and when no such threshold can be established Argus will explain the reasons. These thresholds will often reflect the minimum volumes necessary to

produce a transaction-based methodology, but may also establish minimum deal parameters for use by a methodology that is based primarily on judgment.

Should no transaction threshold exist, or should submitted data fall below this methodology's stated transaction data threshold for any reason, Argus will follow the procedures outlined elsewhere in this document regarding the exercise of judgment in the price assessment process.

Transparency

Argus values transparency in energy markets. As a result, where available, we publish lists of deals in our reports that include price, basis, counterparty and volume information. The deal tables allow subscribers to cross check and verify the deals against the prices. Argus feels transparency and openness is vital to developing confidence in the price assessment process.

Swaps and forwards markets

Argus publishes forward assessments for numerous markets. These include forward market contracts that can allow physical delivery and swaps contracts that swap a fixed price for the average of a floating published price. Argus looks at forward swaps to inform physical assessments but places primary emphasis on the physical markets.

Publications and price data

Argus prices for crude oil in the former Soviet Union countries are published in the Argus Russian Crude Exports report. Subsets of these prices appear in other Argus market reports and newsletters in various forms. The price data are available independent of the text-based report in electronic files that can feed into various databases. These price data are also supplied through various third-party data integrators. The Argus website also provides access to prices, reports and news with various web-based tools. All Argus prices are kept in a historical database and available for purchase. Contact your local Argus office for information.

A publication schedule is available at www.argusmedia.com

Corrections to assessments

Argus will on occasion publish corrections to price assessments after the publication date. We will correct errors that arise from clerical mistakes, calculation errors, or a misapplication of our stated methodology. Argus will not retroactively assess markets based on new information learned after the assessments are published. We make our best effort to assess markets based on the information we gather during the trading day assessed.

Ethics and compliance

Argus operates according to the best practices in the publishing field, and maintains thorough compliance procedures throughout the firm. We want to be seen as a preferred provider by our subscribers, who are held to equally high standards, while at the same time maintaining our editorial integrity and independence. Argus has a strict ethics policy that applies to all staff. The policy can be found on our website at www.argusmedia.com. Included in this

policy are restrictions against staff trading in any energy commodity or energy related stocks, and guidelines for accepting gifts. Argus also has strict policies regarding central archiving of email and instant messenger communication, maintenance and archiving of notes, and archiving of spreadsheets and deal lists used in the price assessment process. Argus publishes prices that report and reflect prevailing levels for open-market arms length transactions (please see the [Argus Global Compliance Policy](#) for a detailed definition of arms length).

Consistency in the assessment process

Argus recognises the need to have judgment consistently applied by reporters covering separate markets, and by reporters replacing existing reporters in the assessment process. In order to ensure this consistency, Argus has developed a programme of training and oversight of reporters. This programme includes:

- A global price reporting manual describing among other things the guidelines for the exercise of judgment
- Cross-training of staff between markets to ensure proper holiday and sick leave backup. Editors that float between markets to monitor staff application of best practices
- Experienced editors overseeing reporting teams are involved in daily mentoring and assisting in the application of judgment for illiquid markets
- Editors are required to sign-off on all price assessments each day, thus ensuring the consistent application of judgment.

Review of methodology

The overriding objective of any methodology is to produce price assessments which are reliable and representative indicators of commodity market values and are free from distortion. As a result, Argus editors and reporters are regularly examining our methodologies and are in regular dialogue with the industry in order to ensure that the methodologies are representative of the market being assessed. This process is integral with reporting on a given market. In addition to this ongoing review of methodology, Argus conducts reviews of all of its methodologies and methodology documents on at least an annual basis.

Argus market report editors and management will periodically and as merited initiate reviews of market coverage based on a qualitative analysis that includes measurements of liquidity, visibility of market data, consistency of market data, quality of market data and industry usage of the assessments. Report editors will review:

- Appropriateness of the methodology of existing assessments
- Termination of existing assessments
- Initiation of new assessments.

The report editor will initiate an informal process to examine viability. This process includes:

- Informal discussions with market participants
- Informal discussions with other stakeholders
- Internal review of market data

Should changes, terminations, or initiations be merited, the report editor will submit an internal proposal to management for review and approval. Should changes or terminations of existing assessments be approved, then formal procedures for external consultation are begun.

Changes to methodology

Formal proposals to change methodologies typically emerge out of the ongoing process of internal and external review of the methodologies. Formal procedures for external consultation regarding material changes to existing methodologies will be initiated with an announcement of the proposed change published in the relevant Argus report. This announcement will include:

- Details on the proposed change and the rationale
- Method for submitting comments with a deadline for submissions
- For prices used in derivatives, notice that all formal comments will be published after the given consultation period unless submitter requests confidentiality.

Argus will provide sufficient opportunity for stakeholders to analyse and comment on changes, but will not allow the time needed to follow these procedures to create a situation wherein unrepresentative or false prices are published, markets are disrupted, or market participants are put at unnecessary risk. Argus will engage with industry throughout this process in order to gain acceptance of proposed changes to methodology. Argus cannot however guarantee universal acceptance and will act for the good order of the market and ensure the continued integrity of its price assessments as an overriding objective.

Following the consultation period, Argus management will commence an internal review and decide on the methodology change. This will be followed by an announcement of the decision, which will be published in the relevant Argus report and include a date for implementation. For prices used in derivatives, publication of stakeholders' formal comments that are not subject to confidentiality and Argus' response to those comments will also take place.

Introduction

Argus has a range of crude oil market reports in the Russian language as well as reports in English. Argus Russian Crude Exports report is available every Monday (except for public holidays) in Russian language. The report covers prices for different grades of Russian crude oil and international crude oil benchmarks.

Argus will contact and accept market data from all credible market sources including producers, traders, refineries, transporters and other market participants. Argus Russian Crude Exports also provides comparison of profitability for export to different markets, export and transshipment volumes, export schedules, extensive market commentary, exclusive news, detailed analysis and statistical data.

Price assessments

International price assessments

- North Sea Dated
- WTI
- Mars
- Dubai
- Oman
- Urals fob Primorsk (current and retrospective)
- Urals fob Ust-Luga (current and retrospective)
- Urals Aframax fob Novorossiysk (current and retrospective)
- Urals Suezmax fob Novorossiysk
- Urals Aframax cif Black Sea
- Urals dap west coast India
- Urals dap west coast India Dubai basis
- Kebco cif Augusta
- Siberian Light fob Novorossiysk
- CPC Blend cif Augusta
- CPC Blend fob Yuzhnaya Ozereyevka (current and retrospective)
- ESPO Blend fob Kozmino
- Druzhba Slovakia fit Budkovce
- Druzhba Hungary fit Feneshlitke

The international prices are taken from Argus Crude. For a detailed explanation of the methodology behind the international crude assessments and the master tables of the specification table below, see the [Argus Crude Methodology](#).

Retrospective fob assessments

Urals fob Primorsk, Urals fob Ust-Luga and Urals fob Novorossiysk retrospective price assessments are based on the current price of North Sea Dated less the average Urals fob Primorsk, Ust-Luga and Novorossiysk differentials for the cargo delivery period. CPC Blend fob Yuzhnaya Ozereyevka retrospective price assessments are based on the current price of North Sea Dated less the average CPC Blend cif Mediterranean differential, freight rate and war risk insurance for the cargo delivery period.

The delivery period for Urals cargoes exported via the ports of Novorossiysk, Ust-Luga and Primorsk is 10-25 days before the date of the bill of lading, for CPC Blend, the delivery period is 10-30 days before the date of the bill of lading. Demurrage in the Turkish straits is also assessed on the date of loading.

See the [Argus Nefte Transport methodology](#) for more information about the additional war risk premium assessment.

Belarus price indexes

Argus calculates a daily price index for Russian crude delivered by pipeline to refineries in Belarus based on formula pricing. The formula is linked to Urals price assessments at international markets in northwest Europe and the Mediterranean. Outright price assessments are published in US dollars per tonne. Differentials to North Sea Dated are published in US dollars per barrel.

Assessments are basis ddu Mozyr and ddu Novopolotsk.

Netback price assessments

Current netback

Argus calculates netback price assessments for Russian crude exports originating in West Siberia (Nizhnevartovsk) and Volga-Urals (Samara). The netbacks are calculated from current Argus Urals fob assessments in Primorsk, Ust Luga and Novorossiysk by subtracting export duty, loading and domestic pipeline costs.

All costs nominated in national currencies are converted into US dollar per barrel using daily market rates. Crude quality is regularly reviewed (see the Russian and Caspian crudes table).

Netback values are compared with monthly average domestic spot market assessments in West Siberia (fip Nizhnevartovsk) and Volga-Urals region (fip Samara). See the [Argus Russian Domestic Crude Market](#) methodology.

Retrospective netback

Retrospective netback prices are designed to compare the profitability of exports and domestic sales of different grades of crude delivered in the same month to markets in Europe, Asia-Pacific and Russian refineries. For calculation of retrospective netbacks Argus uses monthly average Russian Rouble rates published by the Central Bank of Russia. Netback prices for Russian crude delivered in the same month are published in Argus Russian Crude Exports report. For detailed calculation see the table below.

Freight

Argus Russian Crude Exports includes freight rates and demurrage costs republished from the Argus Tanker Freight report.

Demurrage

Black Sea-Mediterranean Suezmax demurrage
Black Sea-Mediterranean Aframax demurrage
Delay at Turkish straits northbound
Delays at Turkish straits southbound

Freight

Dirty, Black Sea-Mediterranean (135,000t)
Dirty, Black Sea-Mediterranean (80,000t)
Dirty, Baltic-UKC (100,000t)

See the [Argus Tanker Freight methodology](#).

Russian and Caspian crudes						
Grade	Typical °API*	Typical sulphur, %*	Conversion factor, t/bt*	Basis/location	Timing	Cargo size, '000t unless specified
Urals Primorsk	29.95	1.66	7.1769	fob Primorsk, Baltic	Loading 10-25 days ahead	100
Urals Ust-Luga	31.19	1.71	7.2321	fob Ust Luga, Baltic	Loading 10-25 days ahead	100
Urals Novorossiysk Aframax	30.66	1.66	7.2085	fob Novorossiysk, Black Sea	Loading 10-25 days ahead	80
Urals Novorossiysk Suezmax	30.66	1.66	7.2085	fob Novorossiysk, Black Sea	Loading 10-25 days ahead	140
Urals west coast India	29.95	1.66	7.1769	dap west coast India	Delivered 15-45 days ahead	80-140
Kebco Ust-Luga	31.19	1.71	7.2321	fob Ust Luga, Baltic	Loading 10-25 days ahead	100
Kebco Novorossiysk	30.66	1.66	7.2085	fob Novorossiysk, Black Sea	Loading 10-25 days ahead	80-140
Kebco Mediterranean	30.66	1.66	7.2085	cif Augusta, Italy	Loading 10-25 days ahead	80-140
Siberian Light Novorossiysk	35.21	0.56	7.4108	fob Novorossiysk, Black Sea	Loading 10-25 days ahead	80-85
CPC Blend Mediterranean	46.00	0.60	7.8904	cif Augusta, Italy	Loading 10-30 days ahead	80-135
CPC Blend Terminal	46.00	0.60	7.8904	fob CPC terminal (Yuzhnaya Ozereyevka)		80
Druzhiba Czech Republic	31.17	1.73	7.2312	fit Budkovce (for Czech delivery)	Delivered during the previous month	10
Druzhiba Slovakia	31.17	1.73	7.2312	fit Budkovce (for Slovak delivery)	Delivered during the previous month	10
Druzhiba Hungary	31.17	1.73	7.2312	fit Feneslitke (for Hungarian delivery)	Delivered during the previous month	10
Urals Belorussia	31.17	1.73	7.2312	ddu Mozyr, ddu Novopolotsk		
ESPO Blend	35.00	0.60	7.4014	fob Kozmino	Loading 30-75 days ahead	100-270
BTC Blend	38.40	0.16	7.5526	cif Augusta, Italy	Loading 15-35 days ahead	80-135
Varandey Blend	37.53	0.44	7.5139			100-140

*4Q23 qualities used in 1Q24 calculations

Crude prices netted back to fip Nizhnevartovsk (West Siberia)			Example: October	
Grade, destination	Benchmark price	Differential	Export duty	Transportation costs
Espo Blend	Dubai front-month (average in October)	Average Espo fob Kozmino differential in deals with October loading cargoes In the absence of deals, the average Espo fob Kozmino differential for October loading cargoes	Full duty for loading month (Oct)	Espo loading and transportation tariff
Urals Primorsk/Ust-Luga	North Sea Dated average of Oct assessments	Average Urals differential fob Primorsk/Ust-Luga for 10-25 days before B/L dates in October	Full duty for loading month (Oct)	Primorsk/Ust Luga loading and pipeline tariffs from Nizhnevartovsk
Urals Aframax Novorossiysk	North Sea Dated average of Oct assessments	Average Urals Aframax differential fob Novorossiysk for 10-25 days before B/L dates in October	Full duty for loading month (Oct)	Novorossiysk loading and pipeline tariffs from Nizhnevartovsk
Urals Slovakia	North Sea Dated average of Oct assessments	Average Urals Slovakia differential for the month of delivery (October)	Full duty for loading month (Oct)	Pipeline tariffs from Nizhnevartovsk
Urals Hungary	North Sea Dated average of Oct assessments	Average Urals Hungary differential for the month of delivery (October)	Full duty for loading month (Oct)	Pipeline tariffs from Nizhnevartovsk