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ARGUS RUSSIAN DOMESTIC CRUDE MARKET

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

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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 domestic crude 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 market analysts and 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, Argus Open Markets® (AOM®) and directly from the back offices of market participants. Argus will accept market data by telephone, instant messenger, email, AOM 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. Market analysts and 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 manager or editor will engage in an analysis of the market data with the primary market analysts and reporters 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

Market analysts and 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, market analysts and reporters seek to verify the price, the volume, the specifications, location basis, and counterparty. In some transactional average methodologies, market analysts and 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 market analysts and 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 manager or editor will initiate approval and, if necessary, documentation procedures.

Primary tests applied by market analysts and 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 trans-

- action 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 market analyst or 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 managers or 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 market analyst or 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 market analysts and 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 market analysts and reporters will make an assessment of market value by applying intelligent judgment based on a broad array of factual market information. Market analysts and 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 manager or 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 market analysts and 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 Russian domestic crude prices are published in the Argus Russian Domestic Crude Market 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 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 market analysts and reporters covering separate markets, and by market analysts and reporters replacing existing market analysts and reporters in the assessment process. In order to ensure this consistency, Argus has developed a programme of training and oversight of market analysts and 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. Managers and editors that float between markets to monitor staff application of best practices
- Experienced managers and editors overseeing reporting teams are involved in daily mentoring and assisting in the application of judgment for illiquid markets
- Managers and 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 managers, editors, market analysts 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 managers, 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 managers and editors will review:

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

Report managers and editors 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 manager or 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.

Market overview

Russia consumes a half of its crude production domestically. Most of this crude moves within vertically integrated oil companies at internal transfer prices. The rest is sold through arms length deals between producers with excess volumes and refiners or independent traders.

The key fundamental factors of the Russian market are the supply/demand balance for next month and Urals crude export netbacks calculated to west Siberia. Spot domestic crude available for arms length sales is sold during a trading period of several days during the second half of the month before supply. Outside of this period the spot market is quiet.

Term crude at the domestic market is sold through pricing formulas, tied to the international crude price.

Argus domestic price assessments

Argus publishes prices for crude in west Siberia on a daily and monthly basis excluding Saturdays, Sundays and public holidays. All domestic price assessments are published in the Russian-language daily Argus Russian Domestic Crude Market (**Argus Рынок нефти России**) and are available online at www.argusmedia.com.

Price assessments are based on trade, bids and offers and other market information.

Prices are published in Russian roubles per tonne and US dollars per barrel converted at the rate of the Russian Central Bank on the date of publication, multiplied by a tonne-to-barrel conversion factor as determined by Argus based on quarterly crude export quality data.

The quality of Russian domestic and export crude is outlined in the [Argus Russian Crude Export methodology](#). International crude price assessments used in formula price and netback calculations are governed by the [Argus Crude methodology](#). Freight rates are governed by the [Argus Tanker Freight methodology](#).

Argus Urals west Siberia spot assessment

Argus publishes a spot assessment for month-ahead or current-month delivery of Russian crude.

Basis: fip Nizhnevartovsk

A market survey is conducted among Russian producers, traders and end-user refineries.

Timing

Month-ahead prices are assessed from the 21st to the end of each month, when trading activity is typically at its highest. From the first to the 20th of the month, when trading activity is typically low, Argus republishes the assessment of the last publication date of the previous month.

If the market trades for current-month delivery during the first half of the month, Argus will continue to publish an assessment.

Specifications

Russian export blend (Urals) free-in pipeline (fip) at the Transneft crude transfer facility in Nizhnevartovsk.

Volume: minimum 5,000t

Timestamp: 5.30pm Moscow time

Argus Urals west Siberia formula

Argus publishes price assessments for crude sold using pricing formulas tied to international crude prices. Argus formula assessments are calculated from an average of two Urals assessments, basis fob Novorossiysk Suezmax and fob Primorsk, less loading/transportation costs to Nizhnevartovsk and current export duty. Prices are also published including VAT. If the underlying formula price is negative, the VAT-inclusive price is not published for that day and the VAT-inclusive monthly average is published by adding VAT to the average formula price for the month.

Argus Urals west Siberia formula (India)

Argus publishes price assessments for crude sold using pricing formulas tied to international crude prices. The Argus Urals west Siberia formula (India) is an average of three Urals netbacks from the Argus Urals dap West Coast India (WCI) assessment to Nizhnevartovsk via Novorossiysk (Suezmax), Primorsk and Ust-Luga ports. These netbacks include the following costs:

- Freight costs along the Novorossiysk-west coast India (Suezmax), Primorsk-west coast India and Ust-Luga-west coast India routes
- Turkish Straits demurrage on the Novorossiysk-WCI route
- Cargo insurance
- Additional war risk premiums in the Black Sea and Baltic Sea
- Port fees in Novorossiysk, Primorsk and Ust-Luga
- Crude loading costs in Novorossiysk, Primorsk and Ust-Luga
- Cost of pipeline delivery from Nizhnevartovsk to Novorossiysk, Primorsk and Ust-Luga, respectively (average through Platina and Yurgamysh)

The calculation does not include transportation losses, port demurrage, commissions, bank loan expenses, market structure or other costs that may occur. Prices are also published including VAT. If the underlying formula price is negative, the VAT-inclusive price is not published for that day and the VAT-inclusive monthly average is published by adding VAT to the average formula price for the month.

Argus Urals Volga region formula

Argus publishes price assessments for crude sold using pricing formulas tied to international crude prices. Argus formula prices are calculated from an average of two Urals assessments, basis fob Novorossiysk Suezmax and fob Primorsk, less loading/transportation costs to Almetievsk and current export duty. Prices are also published including VAT. If the underlying formula price is negative, the VAT-inclusive price is not published for that day and the VAT-inclusive monthly average is published by adding VAT to the average formula price for the month.

Argus Urals Timan-Pechora formula

Argus publishes price assessments for crude sold using pricing formulas tied to international crude prices. Argus formula prices are calculated from Urals fob Primorsk less loading/transportation costs to Usa

and current export duty. Prices are also published including VAT. If the underlying formula price is negative, the VAT-inclusive price is not published for that day and the VAT-inclusive monthly average is published by adding VAT to the average formula price for the month.

Argus ESPO Blend west Siberia formula

Argus publishes price assessments for crude sold using pricing formulas tied to international crude prices. The Argus ESPO Blend west Siberia formula assessment is calculated as the Argus ESPO Blend fob Kozmino assessment less the ESPO pipeline transportation tariff. Prices are also published including VAT. If the underlying formula price is negative, the VAT-inclusive price is not published for that day and the VAT-inclusive monthly average is published by adding VAT to the average formula price for the month.

Monthly prices

Argus publishes monthly prices for Urals crude in west Siberia (fip Nizhnevartovsk) on the first working day after the end of spot trading for the month.

Monthly prices in west Siberia (fip Nizhnevartovsk) are based on the minimum and maximum spot values of Urals fip west Siberia on the trading days when spot deals were recorded.

In addition to the spot price assessments, Argus publishes daily formula prices.

Changes in assessments

Argus retains the right to change its price assessments retrospectively if any sudden changes are made to export duty, tax, transportation tariff or other rates.

Index publication on non-working days

Argus does not publish domestic spot prices for crude on non-working days in Russia. Values of indexes that use international market quotes for Russian non-working days are calculated and published retrospectively. International market assessments and indexes that depend on them (Argus Urals west Siberia formula, Argus Urals Volga region formula, Argus Urals west Siberia formula (India) and Argus ESPO Blend west Siberia formula) are not published for UK non-working days. When calculating differentials, the latest available international market assessments are used.