ARGUS RUSSIAN PRODUCTS EXPORTS

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LAST UPDATED: JANUARY 2020

The most up-to-date Argus Russian Products 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 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 refined products 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.

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 differen-
tly than the other counterparty.
• Any transaction details that appear to the reporter to be illo-
cal 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 transac-
tions 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 trans-
actional 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, includ-
ing 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 as-
seessment 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, replica-
ble, 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 as-
essed, 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 negoti-
ated value.
• Exchange a commodity in one location for the same com-
modity 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 read-
ily 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 dif-
f erent 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 transporta-
tion infrastructure found in all commodity markets. Instead, mini-
 mum volumes are typically established which may apply to each
transaction accepted, to the aggregate of transactions, to transac-
tions 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 refined products prices are published in the Argus Russian Products 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 initiatives be merited, the report editor will submit an internal proposal to management for review and approval. Should changes or terminations of existing methodologies 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 publishes a range of petroleum products market reports. The Argus Russian Products Exports report is published every Monday (except for Russian public holidays) in the Russian language. The report covers products exports from Former Soviet Union countries, domestic and international market fundamentals, refinery maintenance schedules, logistics and product quality information. Argus Russian Products Exports also provides extensive market commentary, exclusive news, detailed analysis and statistical data.

**Price assessments and indexes**

**International price assessments**

Argus Russian Products Exports publishes the following international product price assessments for Friday preceding the report’s date:

- Fuel oil 3.5% 180cst fob Singapore
- Diesel French 10 ppm cif Lavera/Genoa
- VGO 2% cif northwest Europe
- VGO 2% fob Black Sea
- Fuel oil 3.5% cif northwest Europe
- Straight-run fuel oil M-100 cif northwest Europe
- Argus HSFO VWA
- Naphtha 65% para cif Lavera/Genoa
- Heating oil 0.1% cif Lavera/Genoa
- Diesel French 10 ppm cif Lavera/Genoa
- Fuel oil 3.5% cif cif Lavera/Genoa
- Gasoil 0.5% fob Singapore
- Naphtha 65% para c+f Japan
- Fuel oil 3.5% 180cst fob Singapore
- Fuel oil 1.5% c+f east China
- Gasoline 87 regular cif New York
- Fuel oil 3.0% cif New York

The international prices are taken from Argus European Products, Argus Asia-Pacific Products and Argus US Products daily reports.

Argus publishes prices that report and reflect prevailing levels for open market arms length transactions (see the Argus Global Compliance Policy for a detailed definition of arms length).

The cracked fuel oil 3.0% cif New York assessment originally published in US dollars per barrel is converted to US dollars per metric tonne assuming there are 6.3 barrels in 1 tonne.

**Russian export price assessments**

Argus Russian Products Exports publishes calculated indexes for Russian M-100 fuel oil in northwest Europe, and for high-sulphur gasoil exported through Black Sea ports.

**Fuel oil M-100 cif northwest Europe**

The price for Russian straight run M-100 fuel oil in northwest Europe is calculated by applying the assessed market premium (or discount) for the grade to cracked fuel oil 3.5pc cif northwest Europe assessment. Daily price assessments for 3.5pc cracked fuel oil and differentials for straight run M-100 are published in Argus European Products report.

**High-sulphur gasoil assessments**

Argus publishes weekly price assessments for gasoil with sulphur content of up to 0.1%, 0.25% and 0.5% exported through Russian Black Sea ports. Price assessments are published as a differential to the heating oil 0.1%S fob West Mediterranean price assessment and as outright values.
Baltic motor fuels price assessments

Argus publishes price assessments for 95r gasoline and 10ppm diesel in Latvia, Lithuania and Estonia every two weeks.

The market is assessed as of the day of publication, but noteworthy price fluctuations taking place during the fortnight are described in the commentary.

The market is assessed as a range for each country based on deals done, as well as the supply and demand of motor fuels on a ddp basis at tank farms in

- Estonia
  - Tallinn
  - Tartu
  - Maardu

- Latvia
  - Riga
  - Olaine
  - Saldus
  - Cesis
  - Valmiera
  - Rezekne

- Lithuania
  - Mazeikiai
  - Klaipeda
  - Subachius
  - Vilnius
  - Kaunas

Information regarding fuels originating from refineries located in Lithuania, Finland, Belarus and Russia are considered for inclusion in the assessment.

Russian motor fuels delivered to Mongolia

Price indexes for Russian motor fuels delivered to Mongolia are calculated weekly according to the formula:

\[ I = P - T + Tr + R \]

Where:
- \( I \) = Russian motor fuel delivered to Mongolia index
- \( P \) = fca refinery price published in Argus Russian Motor Fuels
- \( T \) = Russian taxes (VAT and excise)
- \( Tr \) = cost of railway transport from a Russian refinery to the Naushki railway station at the Mongolia border
- \( R \) = cost of rail car rent.

All components of the formula are published weekly in Argus Russian Products Exports, in Russian roubles per tonne. Component prices are averages for the week before the week of publication. Calculated indexes are published in roubles per tonne and in US dollars per tonne rounded to two decimal places.

Underlying oil products price assessments are for those routes actively used by each refinery, as well as for routes theoretically available to refiners.
## Russian motor fuels delivered to Naushki (Mongolia)

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<tr>
<th>Product</th>
<th>Refinery</th>
<th>Dispatching station</th>
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<tr>
<td><strong>Summer diesel</strong></td>
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<td>Angarsk</td>
<td>Sukhovskaya Yuzhnaya</td>
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<td>Novaya Elovka</td>
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<td>Perm</td>
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<td>Salavat</td>
<td>Allaguvat</td>
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<td><strong>Inter-seasonal diesel</strong></td>
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<td>Angarsk</td>
<td>Sukhovskaya Yuzhnaya</td>
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<td>Perm</td>
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| **Winter diesel** |                   |                             |
| Angarsk           | Sukhovskaya Yuzhnaya |
| Achinsk           | Novaya Elovka       |
| Nizhnekamsk       | Biklyan             |
| Omsk              | Kombinatskaya       |
| Orsk              | Nikel               |
| Perm              | Osentisy            |
| Salavat           | Allaguvat           |

| **Gasoline 95**   |                   |                             |
| Angarsk           | Sukhovskaya Yuzhnaya |
| Achinsk           | Novaya Elovka       |
| Nizhnekamsk       | Biklyan             |
| Omsk              | Kombinatskaya       |
| Orsk              | Nikel               |

| **Gasoline 92**   |                   |                             |
| Angarsk           | Sukhovskaya Yuzhnaya |
| Achinsk           | Novaya Elovka       |
| Nizhnekamsk       | Biklyan             |
| Omsk              | Kombinatskaya       |
| Orsk              | Nikel               |