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## ***ARGUS GERMAN FUELS (ARGUS HANDEL)***

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The most up-to-date Argus German Fuels methodology is available on [www.argusmedia.com](http://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 indicators of commodity market values, free from distortion and representative of spot market values. As a result, the specific currencies, volume units, locations and other particulars of an assessment are determined by industry conventions.

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

Argus may assess some clean product markets as a basis differential to Ice gasoil to arrive at fixed prices because the futures settlement price is a representative futures price reference.

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, 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. This 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, details of the transactions verified are published electronically and are accessible by subscribers. The number of transactions and volumes 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 arms 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.
- 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:

#### Bids and offers

If a sufficient number of bids and offers populate the market, then 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 commodity’s primary feedstock or primary derived product(s).
- Comparison to trade in the same commodity but in a different modality (as in barges versus trucks) or in a different total volume.

#### Volume minimums and transaction data thresholds

Because of the varying transportation infrastructure found in all commodity markets, 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. 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 some price assessments, 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.

#### 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.

From time to time, trade data reported to Argus is corrected after the fact by market participants. In these cases, Argus will take into consideration the materiality of the corrected trade data's effect on the final price assessments and the timing of the corrected trade data when deciding whether to issue a correction.

- Materiality – if the receipt of corrected trade data would change the published low or high price by any amount or would change the published volume-weighted average price by 1pc or more, Argus will publish a corrected low, high and/or volume-weighted average price
- Timing – if transaction information is submitted in error, and the company submitting the information informs Argus of the error more than one business day after the original submission, Argus will review both the material effect the correction will have on the published price data and the amount of time that has elapsed from the date of the published price data before deciding whether to issue a correction

### 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](http://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 indicators of commodity market values, free from distortion and representative of spot market values. 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 physical 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
- 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. Publication of stakeholders' formal comments that are not subject to confidentiality and Argus' response to those comments will also take place.

### Argus Handel — Argus German Fuels

Region	Locations
South	Ingolstadt, Neustadt, Vohburg
Southwest	Karlsruhe
Rhine-Main	Basis Frankfurt, with Flörsheim (including Raunheim), Hanau and Aschaffenburg
Niederrhein-Ruhr	Basis Duisburg, Gelsenkirchen and Essen with Düsseldorf and Neuss
North	Hamburg
Cologne Lowland	Cologne, Cologne-Godorf, Wesseling
Southeast	Cunnersdorf, Gera, Hartmannsdorf, Leuna, Rhäsa, and Thüringen
Magdeburg	Magdeburg
Seefeld-Schwedt	Seefeld, PCK Schwedt
East	Berlin including Kablow
Emsland	Lingen, Osnabrück, Münster

#### Price assessments

FCA-truck spot transactions form the basis of the price assessments. Volumes are shown in cubic meters (m<sup>3</sup>) and the currency in euros (€). Prices are reported in €/100l and include energy tax and current EBV fees where applicable, but exclude value-added tax.

Inland price assessments are for the following products:

- 95 Ron E5
- 95 Ron E10
- 98 Ron
- Diesel EN 590 10ppm
- Heating oil 50ppm

Transaction data are used to calculate a volume-weighted average (vDIP) for 95 Ron E5, diesel EN 590 10ppm and heating oil 50ppm when a minimum of three sources have submitted data to Argus covering a minimum of 300m<sup>3</sup> in total per region and product.

If these conditions are not met, Argus uses its discretion in deciding whether to include transaction data with a combined volume below 300m<sup>3</sup> or received from fewer than three sources.

Argus will take into account the verifiability of transaction data and other market information when making such decisions.

If no transaction data have been received, the assessment will be made using other market data such as bids, offers and activity on the international market.

95 Ron E10 and 98 Ron follow a different methodology outlined in the following sections.

Information about trades completed after 5pm Central European Time and/or reported to Argus after 5pm London time may not be considered for inclusion in the assessment.

#### Data handling and storage

All transaction data submitted to Argus as part of the Argus *German Fuels Report* will be handled and stored in accordance with relevant law. Counterparty information including, but not limited to, company names or addresses will not be published without the express written consent of the counterparty. More information on data and data security policies can be found at <https://www.argusmedia.com/en/about-us/governance-compliance>

#### Verification and use of transaction data

Transaction data will be used to form the basis of the Argus German Fuels Report. These data include transactions, bids, offers, volumes, counterparties, specifications and any other information that contributes materially to the determination of price. For transaction data to be included in the regional FCA truck price assessments it must meet the following requirements:

- For delivery within Germany
- Transactions at arms length (please see the Argus Global Compliance Policy for a detailed definition of arms length).
- Product specifications meet those standards outlined within this methodology

Transactional data may be excluded for the following reasons:

- Transactions not transacted at arms length, including deals between related parties or affiliates
- Price or volume corrections, in particular those which do not take place on the same day as the reported transaction
- Transaction prices that fall outside of the generally observed lows and highs that operated throughout the trading day

#### Indications of highs and lows

Argus publishes indications that reflect the highest and lowest transactions of the day. In the event that no transactions were reported to Argus, no high or low is shown.

#### Weekly, 10-day, half-monthly and monthly averages

Argus publishes weekly, 10-day, half-monthly and monthly average assessments that are the arithmetic average of end-of-day price assessments.

Weekly average assessments are published on the last publication day of the week. 10-day average assessments are published on the last publication day on or before the 10th, the 20th and the last day of the month. Half-monthly average assessments are published on the last publication day on or before the 15th of the month and on the last publication day of the month. Monthly average assessments are published on the last publication day of the month. A publication schedule is available at [www.argusmedia.com](http://www.argusmedia.com)

### Euro per tonne prices

Argus also publishes prices converted to euro per tonne (€/t) with German energy tax and current EBV fees removed.

The conversion of prices from €/100l to €/t uses the specific gravity listed under product specifications.

### 98 Ron gasoline assessment methodology

98 Ron gasoline is assessed on the basis of reported transactions and a daily market survey of offers.

Regional assessments are published as ranges of the lowest and highest traded or offered 98 Ron price differentials to the E5 price assessment in the regional market on the day of publication. For each region an outright 98 Ron price is also published as the regional E5 price assessment plus the national consensus 98 Ron differential discussed below.

Argus also publishes a national consensus 98 Ron differential to E5. The consensus is indicative of the preponderance of traded or offered prices in the market at the time of assessment and is intended to exclude trades or offers that are unrepresentative of the market as a whole. The consensus price is independent of any of the regional low and high prices — depending on market conditions, the low, high and consensus prices may be the same, the consensus price may be equal to either the low or the high of the published range, or the consensus price may be equal to neither the low nor the high of the published range. The consensus price will never be below the lowest or above the highest of the published regional low-high prices.

Only price information for 98 Ron offered or sold as part of a “Tankstellenmix” or “retail mix” which includes E5 or other motor fuels as part of a combined shipment to retailers will be considered for inclusion in the assessments.

### 95 Ron E10 gasoline assessment methodology

95 Ron E10 gasoline is assessed on the basis of reported transactions and a daily market survey of offers.

Regional assessments are published as ranges of the lowest and highest traded or offered 95 Ron E10 price differentials to the E5 price assessment in the regional market on the day of publication. For each region an outright 95 Ron E10 price is also published as the regional E5 price assessment plus the national consensus 95 Ron E10 differential discussed below.

Argus also publishes a national consensus 95 Ron E10 differential to E5. The consensus is indicative of the preponderance of traded or offered prices in the market at the time of assessment and is intended to exclude trades or offers that are unrepresentative of the market as a whole. The consensus price is independent of any of the regional low and high prices — depending on market conditions, the low, high and consensus prices may be the same, the consensus price may be equal to either the low or the high of the published range, or the consensus price may be equal to neither the low nor the high of the published range. The consensus price

will never be below the lowest or above the highest of the published regional low-high prices.

Only price information for 95 Ron E10 offered or sold as part of a “Tankstellenmix” or “retail mix” which includes E5 or other motor fuels as part of a combined shipment to retailers will be considered for inclusion in the assessments.

## Specifications

### 95 Ron E5

The specifications are 95 Ron, unleaded 10ppm sulphur, meeting all requirements of the latest official version of DIN EN228, 0.755 specific gravity at 15°C, and a maximum ethanol content of 5pc. Prices include typical industry performance additives.

The loading window ends no later than 28 calendar days after the transaction was made.

### 95 Ron E10

The specifications are 95 Ron, unleaded, 10ppm sulphur, meeting all requirements of the latest official version of DIN EN228, 0.755 specific gravity at 15°C, and a maximum ethanol content of 10pc. Prices include typical industry performance additives.

The loading window ends no later than 28 calendar days after the transaction was made.

### 98 Ron

The specifications are 98 Ron, unleaded, 10ppm sulphur, meeting all requirements of the latest official version of DIN EN228, 0.755 specific gravity at 15°C. Prices include typical industry performance additives.

The loading window ends no later than 28 calendar days after the transaction was made.

### Diesel EN 590 10ppm

The specifications are 10ppm sulphur, meeting all requirements of the latest official version of DIN EN590. Prices include typical industry performance additives.

The loading window ends no later than 28 calendar days after the transaction was made.

### Heating oil 50ppm

The specifications are 50ppm max sulphur, 0.845 specific gravity at 15°C, heating oil meeting the latest version of DIN EN 51603-1.

The loading window ends no later than 28 calendar days after the transaction was made.

IWO tax is not included in heating oil price assessments.



## Markets assessed

### South price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Southwest price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Rhine-Main price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

Transactions in Flörsheim (including Raunheim), Frankfurt, Hanau and Aschaffenburg are taken into account for the assessment.

Prices are assessed at Frankfurt, with transaction and offer prices in the other locations considered with a freight adjustment.

Freight adjustment rates are updated and published daily in the daily Argus Handel report. Daily freight rate assessments provided by O.M.R. Oil Market Report are used to calculate adjustment rates. See [www.omr.de](http://www.omr.de) for more information.

### Niederrhein-Ruhr price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

Transactions in Duisburg, Gelsenkirchen, Essen, Düsseldorf and Neuss are taken into account for the assessment.

Prices are assessed at Duisburg, Gelsenkirchen and Essen with transaction and offer prices in the other locations considered with a freight adjustment.

Freight adjustment rates are published in the daily Argus Handel report. Argus will periodically update the freight rates to reflect the market and reserves the right to do so without prior notification.

### North price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Cologne Lowland price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Southeast price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Magdeburg price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Seefeld-Schwedt price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### East price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

### Emsland price assessments

95 Ron E5  
 95 Ron E10  
 98 Ron  
 Diesel EN 590 10ppm  
 Heating oil 50ppm

## Import prices

Argus Handel import prices are the calculated price of gasoline, diesel and heating oil from northwest Europe delivered to regional markets in Germany.

Import prices are the Argus assessment of the price of the product in the ARA region (Amsterdam-Rotterdam-Antwerp) plus the freight rate between ARA and each of the destination markets and associated costs.

Prices are published for Duisburg, Dortmund, Cologne, Frankfurt and Karlsruhe.

### Underlying price assessments

Gasoline Eurobob oxy barge

German heating oil 0.005% fob barge

German diesel 10ppm fob barge

See the [Argus European Products methodology](#).

### Rhine freight rates

Argus uses daily freight rate assessments for barges provided by O.M.R. Oil Market Report from Amsterdam-Rotterdam to Duisburg, Dortmund, Cologne, Frankfurt and Karlsruhe. See [www.omr.de](http://www.omr.de) for more information.

### Associated costs

Associated costs are included in the calculation, such as mineral oil charges (including energy tax) and EBV fee (German National Petroleum Stock Piling Agency). Prices do not include VAT, biofuel components and handling costs.

Tax rates are reviewed on a regular basis and adjusted if necessary.

### Exchange rates and conversion factors

Exchange rates are updated each afternoon.

The conversion from tonnes to litres is based on the following densities:

- Gasoline Eurobob oxy barge — 0.755 g/l
- German heating oil 0.005% fob barge — 0.845 g/l
- German diesel 10ppm fob barge — 0.845 g/l

## Argus Handel Intraday Indications

### Introduction

Argus Handel Intraday Indications is an electronic service that provides transparency to the German markets for heating oil and diesel throughout the day. Displayed prices are an indication of the value of German heating oil and diesel calculated four times a day starting at 9:00am and ending at 3:00pm German time.

Selected data, including prices for the 9:00am, 11:00am, 1:00pm and 3:00pm German time-stamped indications are available independently, in electronic files that can feed into various databases.

Calculated prices displayed as Argus Handel Intraday Indications

are not intended to be predictive of prices published in the Argus Handel report. Daily price assessments are governed by the Argus Handel methodology, as described earlier in this document.

### Methodology

Argus Handel Intraday Indications are calculated by applying the day-on-day change in Ice low sulphur gasoil futures prices to the Argus regional heating oil and diesel fuel assessments published the previous day in Argus Handel.

Specifically, Argus subtracts the last tick of the indicated hour from the average of all ticks recorded between 7:00am and 5:00pm Coordinated Universal Time (UTC) the previous day. That Ice differential is then added to the relevant Argus price assessment.

The resulting Argus intraday indication is shown in €/100l, Ice low sulphur gasoil futures are shown in \$/t and Ice Brent futures are shown in \$/bl. All exchange prices are delayed by several minutes. See the calculation example below.

Fuel specifications for the Argus Handel Intraday Indications are the same as those for the fuels assessed in the Argus Handel report.

Argus publishes four time-stamped intraday indications for each product and region.

- 9:00am German time
- 11:00am German time
- 1:00pm German time
- 3:00pm German time

### Intraday price calculation example

For example, the south region heating oil indication is calculated as:

The current Ice price of \$647.75/t minus the previous day's average of \$644.54/t = a change of plus \$3.21/t or €0.24/100l. The south region heating oil price assessment as published in Argus Handel the previous day at €51.83/100l plus the above change of €0.24/100l = €52.07/100l

### Ice monthly contract expiry

Ice low sulphur gasoil futures contracts roll partway through the trading day. To avoid a sudden change in pricing, Argus uses the same gasoil futures contract in its calculations throughout the trading day.

For example, on the day the December contract expires, Argus will use the January futures price for all Argus Handel Intraday Indications calculations.

### German public holidays

After German public holidays, Argus Intraday Indications are based on the difference between current Ice gasoil prices and those on the last day that Argus published Argus Handel price assessments.

### Currency conversion

Prices are converted into euros per 100l for comparative purposes. Currency conversions are based on the exchange rates of Interactive Data Corporation. Currency rates are calculated at 11:00am, 4:00pm and 6:00pm London time.



### German biofuel quota (Treibhausgasminderungsquote)

The price for the transfer of biofuel quotas between companies, which in Germany must meet the legally prescribed greenhouse gas saving quota for finished gasoline and diesel; or companies that generate biofuel quota by placing biofuels and fossil fuels on the market that are eligible and achieve greenhouse gas reduction.

The assessment, per tonne of CO<sub>2</sub> equivalent, is independent of the way in which the quota is generated.

**Currency/Unit:** €/t CO<sub>2</sub>e, rounded to the nearest €/t CO<sub>2</sub>e

**Timing:** prices are assessed for the most recent compliance year which has yet to be surrendered and may also be assessed for forward compliance years for which Argus has determined that sufficient market liquidity exists to produce a robust assessment. The compliance year ends on 31 December, and quotas are surrendered on 15 April the following year. Argus begins assessing a compliance year no later than 16 April of that year.

For example, Argus will begin publishing a 2020 compliance year assessment no later than 16 April 2020 but may begin publication earlier than that date should Argus deem market liquidity sufficient to produce a robust assessment.

Prices are assessed and published as a low/high range, based on all price information of the week until 5:00pm Central European Time.

2019 exception: In March 2020, the German government postponed by two months the compliance deadline for the German 2019 GHG reduction mandate. Obligated parties have until 15 June 2020 to submit their final 2019 GHG reduction balance. The decision was made because of restrictions occurring in all areas of public life due to the spread of the coronavirus.