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ARGUS ETHYLENE

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The most up-to-date *Argus Ethylene* 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 ethylene 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 judgement 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 judgement 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 judgement 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 judgement 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 judgement.

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 judgement 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 ethylene prices are published in the Argus Ethylene 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.

If transaction information is submitted in error, and the company submitting informs Argus of the error within 24 hours of the original submission, Argus will make best efforts to correct the price data. After 24 hours, Argus will review both the material effect that the correction will have on the price data and the amount of time that has elapsed from the date of the published price data before decid-

ing whether to issue a correction. After 30 days, Argus is unlikely to make a correction based on information submitted in error, and data submitters are not expected to file corrections to submitted data.

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 judgement 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 judgement
- 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 judgement for illiquid markets
- Editors are required to sign-off on all price assessments each day, thus ensuring the consistent application of judgement.

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 Ethylene includes prices and market commentary on the international ethylene and ethylene derivatives markets.

Argus Ethylene contains contract and spot price assessments in North America, Europe and Asia-Pacific. It also contains pricing for polyethylene and related feedstocks such as ethane, propane, butane and naphtha. The methodologies for those products are published on www.argusmedia.com.

Survey method and verification

Price assessments in the Argus Ethylene report rely on a wide variety of sources for information, including refiners, marketers, importers, traders and brokers.

Argus does not restrict itself to one subsection of the market, such as a single trading platform or single informational channel for the market information collected. The market surveys are intended to be balanced in approach and are conducted by experienced industry specialists.

Argus verifies the contract price with major producers and consumers each month.

Confidentiality

Argus asks for counterparties from contacts in order to confirm trades and to avoid double-counting in volume-weighted averages. But Argus does not publish counterparty names in the ethylene markets. Many companies have existing confidentiality agreements with counterparties and can only reveal trade information to Argus if confidentiality is maintained.

Trading and assessment period

All assessments and formulas refer to the price of ethylene for the week of the published report.

Unit and currency

Prices are converted to US dollar per metric tonne (\$/t) for regional comparisons.

US

Monthly contract

Contract net transaction price

The contract price is agreed upon by the largest producers and consumers every month. The contract price is typically settled retroactively but can be settled before or during the month of trading.

Weekly spot

Pipeline delivered USGC spot

The low and high spot transactions for the Monday-Friday before publication. Prices are for delivery during the current calendar month at Mont Belvieu, Texas. Prompt prices roll on the first publishing day of the month. A mathematical midpoint is calculated and published as well.

Month-to-date average spot prompt

The arithmetic average of all the prompt month trades done during the current month up to the day prior to publication.

Month-to-date average spot

The average of all transactions for delivery in the current month. For example, a trade for October delivery that was transacted in September would be included in the average for October.

Specifications

Minimum volume: 1mn lbs

Specification: 99.9pc ethylene

Daily spot

The low and high transactions for the current month and the next forward month, published for

EPC Mont Belvieu ethylene
Choctaw ethylene

Argus also publishes volume-weighted average of current-month ethylene deals transacted during the trading day for EPC Mont Belvieu ethylene if the minimum aggregate volume is met.

A month-to-date average is published for Mont Belvieu ethylene.

Locations and specifications

EPC Mont Belvieu: EPC storage facilities near Mont Belvieu, Texas

Choctaw: storage facilities in Choctaw, Louisiana.

Assessment timing: 8am-5pm Houston time

Low/high volume minimum: 1mn lbs

Minimum aggregate volume for volume-weighted average:
3mn lbs

Specification: minimum 99.9pc ethylene

Daily forward

Argus also publishes forward month and quarter assessments for ethylene at Mont Belvieu. These prices are intelligent assessments of the best bid and best offer at 3pm Houston time based on market

discussion. Prices are for physical material delivered during the named month or quarter.

Prices are published for three forward months and three forward calendar quarters.

Related assessments

Ethylene dichloride (EDC) export, fob USGC (calculated)

Calculated based on netbacks to the Asian market. The netback is a proprietary formula based on Asian prices and freight rate assumptions. Please see below for information on Asian EDC pricing.

Western Europe

Specification

Minimum 99.9pc purity

The European ethylene market is dominated by contractual arrangements with approximately 95pc of volume being sold under contract. There are a limited number of buyers and producers, and logistical constraints further limit spot trade. A significant proportion of the market is conducted as inter-manufacturer transactions, many of which are swaps rather than commercial buy-sell contracts.

Monthly contract

Agreed in most cases before the start of the month of the contract. On occasion, the contract price has been settled after the first of the month.

The contract price is confirmed once two independent sellers and two independent buyers have freely confirmed an agreement. Any buyer or seller of ethylene with a physical production or consumption of ethylene in western Europe can take part in the negotiation of the contract price. Traders do not take part.

An extensive consultation between producers and their customers ensures that there is a good level of consensus. On occasion, an initial settlement may not be confirmed when others in the industry are not in agreement. Because of this uncertainty, Argus will publish a new monthly contract price only when prices are fully confirmed and there is confirmation from the majority of the parties involved.

Northwest Europe ethylene index

The Argus northwest Europe ethylene index is a modelled contract value of ethylene delivered to northwest Europe based on the movement of feedstock and related prices.

The price is calculated by applying the change in naphtha, propane, butane, spot pipeline ethylene and spot shipped ethylene prices to the previous month's index beginning with the December 2019 net contract price. The December 2019 net contract price is assumed to be the Argus delivered northwest Europe monthly ethylene contract price (MCP) assessment less a 14pc discount.

The index is calculated monthly and published on the first working day of the month using the monthly average of the component

prices below. A month-to-date version of the calculation is also published weekly.

The components and weightings are reviewed at least annually and any changes announced in advance.

- Naphtha 65 para cif northwest Europe 50pc
- Propane ARA large cargo 10pc
- Butane ARA large cargo 10pc
- Spot northwest Europe pipeline ethylene 15pc
- Spot cif northwest Europe ethylene 15pc

Individual index components are also published as monthly and month-to-date values.

See the [Argus European Products](#) and [Argus International LPG](#) methodologies.

Weekly spot

cif northwest Europe spot

Specification: minimum 99.9pc purity

Timing: current calendar month

Minimum lot size: 2,000 metric tonnes

Basis: delivered to one of the limited number of locations that can receive ethylene shipments, including, but not limited to, Rotterdam and Terneuzen – Netherlands, Stade – Germany, and Wilton – UK.

Delivered Mediterranean spot

Specification: minimum 99.9pc purity

Timing: current calendar month

Minimum lot size: 2,000 metric tonnes

Basis: delivered to one of the limited ports in the Mediterranean that can receive ethylene shipments, including, but not limited to Sines – Portugal, Tarragona – Spain, Lavera – France, Priolo – Italy.

Spot pipeline northwest Europe

Specification: minimum 99.9pc purity

Timing: current calendar month

Minimum lot size: 500 metric tonnes

ARG (formerly Aethylen-Rohrleitungs-Gesellschaft) operates a pipeline grid linking Antwerp to Cologne and the Ruhr industrial area along with Rotterdam. It forms the backbone of ethylene distribution in western Europe. Spot prices are assessed delivered onto the pipeline.

Asia-Pacific

Monthly contract

Taiwan CP ethylene contract

The monthly Taiwan Contract Price is the price established by CPC and its contract customers each month. Argus publishes this price in the last report of the month following delivery of the contract. For example, the CP ethylene contract price for July will be published in the final August report. Contract settlement prices are confirmed

with CPC. Contract settlement prices will not be revised based on new information received after publication.

Weekly spot

The weekly low and high spot prices of all transactions recorded during the Monday-Friday before publication.

fob northeast Asia

Specification: 99.9pc ethylene

Locations: South Korea, Japan, Taiwan and China

Timing: 15-50 days after assessment date

Volume: minimum 1,500 metric tonnes

Basis: fob northeast Asia

cfr northeast Asia

Specification: 99.9pc ethylene

Locations: South Korea, Japan, Taiwan and China

Timing: 15-50 days after assessment date

Volume: minimum 2,000 metric tonnes

Basis: cfr northeast Asia

cfr southeast Asia

Locations: Singapore, Thailand, Malaysia, Indonesia, Philippines, Vietnam, India

Timing: 15-50 days after assessment date

Volume: minimum 2,000 metric tonnes

Basis: cfr southeast Asia

China domestic truck

Specification: 99.9pc ethylene

Locations: China (including but not limited to Zhejiang, Jiangsu, Anhui, Henan, Shandong, Tianjin, Guangdong)

Timing: 0-7 days after assessment date

Volume: 200t-500 metric ton lots

Basis: ex-tank

Sinopec East China domestic truck ethylene

Sinopec official selling prices for ethylene on the day of publication. Ex-tank basis east China

Daily spot

cfr northeast Asia

The low and high range of transaction prices for delivery to northeast Asia.

Assessment timing: 9am-5pm Singapore time (9am-12.30pm on the days before Singapore public holidays)

Locations: South Korea, Japan, Taiwan and China

Timing: 15-50 days after assessment date

Volume: minimum 2,000 metric tonnes

Basis: cfr northeast Asia

Specification: 99.9pc ethylene

Related assessments

Ethylene dichloride cfr northeast Asia

See the [Argus Chlor-Alkali and Derivatives methodology](#)

Vinyl chloride monomer cfr northeast Asia

See the [Argus PVC and Vinyls methodology](#)

MEG (monoethylene glycol) cfr China

See the [Argus Toluene Xylenes and Isomers/PET methodology](#)

Styrene cfr east China

See the [Argus Benzene Daily methodology](#)

Related feedstocks

Unless stated, feedstock prices are the latest available at the time of publication. Feedstock prices are only available via digital distribution channels including Argus Direct.

- Ethene Mont Belvieu non-LST
- Propane Mont Belvieu non-LST
- Butane Mont Belvieu non-LST

See the [Argus NGL Americas methodology](#)

- Propane ARA large cargo
- Propane Argus Far East Index
- Propane south China refrigerated

See the [Argus International LPG methodology](#)

- Naphtha full-range cif US Gulf coast

See the [Argus US Products methodology](#)

- Naphtha 65 para northwest Europe
- Naphtha 65 para northwest Europe (€/t). A daily conversion is available electronically, month-to-date and monthly averages are included in the print report. Rounded to the nearest whole euro.

See the [Argus European Products methodology](#)

- Naphtha Japan c+f

See the [Argus Asia-Pacific Products methodology](#)