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ARGUS COAL TRANSPORTATION

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LAST UPDATED: APRIL 2018

The most up-to-date *Argus Coal Transportation* methodology is available on www.argusmedia.com

Methodology overview

Methodology rationale

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

In the coal transportation markets, Argus publishes freight rates and other 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 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 coal transportation prices are published in the Argus Coal Transportation 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 restric-

tions 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 Media publishes Argus Coal Transportation, Argus Coal Daily, Argus Coal Daily International, Argus Petroleum Coke, Argus/Coal-Indo Indonesia Coal Index Report and Argus Russian Coal as well as market reports and newsletters on a wide range of energy markets.

Argus Coal Transportation contains:

- Monthly freight rate assessments for eastern and western US railroads
- Monthly fuel surcharge assessments for relevant US railroads
- Monthly assessments for coal barge freight on the US river system
- Weekly and four-week average rate assessments of global seaborne vessel freight routes
- Weekly delivered coal prices to key North America power hubs
- Weekly market commentary and analysis of freight and coal markets

Assessment methodology

To compile its price assessments, Argus surveys a broad selection of shippers, producers and other market participants through telephone conversations, instant messenger services and email communication. Argus will contact and accept market data from all credible market sources including front and back office of market participants and brokers. To maintain balance and consistency, Argus contacts these sources each time the assessments are made.

When available, Argus uses rail tariff rates in compiling assessments, but these rates are not the only indication for, or component in price assessments. When the route indicated in tariff pricing falls outside transportation specifications assessed by Argus, mileage differences are taken into account in evaluating the rates. In addition to tariff information, Argus Coal Transportation collects estimates and information from market participants in determining rates.

If certain routes are illiquid during the assessment period, Argus will use the industry survey for similar moves along other routes in determining how those rail rate assessments should change.

Argus Coal Transportation rail rate assessments do not incorporate costs for the purchase or lease of railcars, or the fees associated with equipment handling. Rates are not reflective of equipment ownership and are solely the cost of transport for the routes in question.

Prices reflect the cost of transportation during the following month for fuel-surcharge adjusted rail rates, and for base rates during the current month.

Argus Coal Transportation assesses rail rates for deliveries from the five major coal producing regions in the US. Those regions are: Central Appalachia, Powder River basin, Pittsburgh Seam, Illinois basin and Colorado-Utah. The prices are published on a monthly basis.

In the east, rates are assessed from:

- Central Appalachia to east coast export terminals, Carolinas, Southwest Ohio, Florida, New York, US southeast and TVA
- Pittsburgh Seam to Florida, New York and east coast export terminals
- Illinois basin to southwest Ohio, Illinois basin, US southeast and Florida

In the west, rates are assessed from:

- PRB to ERCOT, St. Louis region, US southeast, southwest Ohio, TVA and Superior Terminal
- Colorado to TVA and St. Louis region

Calculating rail rates plus fuel surcharges

Given the volatile cost of diesel fuel and the subsequent fuel surcharges levied on coal shippers, any assessment of rail rates would be incomplete without the inclusion of fuel surcharges.

The Class I railroads assess fuel surcharges for many shipments using a coal mileage-based system, although some coal-delivery contracts base fuel surcharges on the underlying base rail rate. The mileage-based rate is calculated by multiplying the applicable fuel

surcharge by the number of miles per carload. Each carrier has a different price at which surcharges begin to accrue, indicating when the surcharge goes into effect, and surcharges change in different increments. Rates for Norfolk Southern are not provided because the railroad built fuel surcharges into its tariff rates.

Fuel surcharges are assessed in cents per mile per railcar and rail rates are assessed in dollars per ton. To resolve this discrepancy, Argus converts the surcharge into dollars per ton using the following calculation:

$$((\text{rate/ton} * \text{tons per car}) + (\text{mileage} * \text{surcharge/mile})) / \text{tons per car}$$

Example: For shipments from Central Appalachia to the East Coast Export Terminals on CSX

$$((\$27.50 * 105 \text{ tons per car}) + (400 \text{ miles} * 53\text{¢/mile})) / 105 \text{ tons per car} = \$29.52/\text{ton}$$

Argus uses the same tons/car factor from month to month. CSX coal cars are estimated at 105 tons per car and BNSF and Union Pacific cars are estimated at 118 tons per car.

Mileage is also standard from month to month and does not represent a specific plant mileage. Instead, this is a generic move from the basin to the region being assessed. Argus applies the following mileage in its assessments:

Western rail rates		
Origin	Destination	Mileage
PRB	ERCOT	1,200
	St. Louis region	1,050
	US southeast	1,575
	Southwest Ohio	1,290
Colorado	TVA	1,700
	Superior Terminal	800
	St. Louis region	980

Eastern rail rates		
Origin	Destination	Mileage
Central App	East coast export terminals	400
	Carolinas	400
	Southwest Ohio	260
	Florida	1,100
	New York	515
Pittsburgh Seam	US southeast	800
	TVA	825
	Florida	1,200
	New York	480
Illinois basin	East Coast Export Terminals	300
	Southwest Ohio	300
	Illinois basin	90
	US southeast	650
	Florida	1,100

Barge rate assessments

Since 1994, Argus Coal Transportation has assessed barge rates for the main trading routes on North America's inland waterways. These freight rates are assessed as a result of communication with leading barge operators, shippers and others in the industry. Assessments reflect the prevailing spot market rates for transits commencing within the next 30 days. In the absence of booked transportation, prices are based on an assessment of bids and offers in the market to obtain the price at which business would have been transacted.

The following routes are assessed:

- Domestic movements: Big Sandy to Pittsburgh, Port Amherst to Cincinnati, Port Amherst to Pittsburgh and Big Sandy to St. Louis.
- Movements to export terminals: Big Sandy to Davant, Birmingham to Mobile, Louisville to Davant, Port Amherst to Davant and St. Louis to Davant.
- Northbound backhauls: Davant to Chicago, Cincinnati, Huntington, Pittsburgh and St. Louis.

Seaborne freight rate assessments

Argus Coal Transportation publishes the latest available freight rates for the main trading routes for Capesize (150,000 metric tonnes), Panamax (70,000 metric tonnes) and certain Handysize (60,000 metric tonnes) vessels to North America, Europe and east Asia as well as certain exports from Colombia and other South American origins. These freight rates are assessed as a result of communication with leading freight brokers and international traders of coal.

Published rates are the latest available on the date of publication of Argus Coal Transportation.

The following routes are covered:

- US east coast-ARA 75,000t Panamax
- US east coast-Japan 75,000t Panamax
- US east coast-ARA 140,000t Capesize
- West coast North America-ARA 60,000t Panamax
- West coast North America-Japan 75,000t Panamax
- Puerto Bolivar-Rotterdam 70,000t Panamax
- Puerto Bolivar-US Gulf 70,000t Panamax
- Puerto Bolivar-US east coast 30,000t handysize
- US Gulf-ARA 70,000t Panamax
- Richards Bay-Rotterdam 150,000t Capesize
- Richards Bay-Rotterdam 70,000t Panamax
- Indonesia to S China 70,000t Panamax
- EC Australia-Japan 70,000t Panamax

See the [Argus Freight methodology](#).

Delivered coal prices

Argus Coal Transportation provides delivered coal costs to major destinations from the five major coal regions on a weekly basis using prompt-quarter coal prices and monthly transport cost assessments.

These comparisons are published weekly in both \$/short ton and \$/mmBtu.

For a more extensive explanation of Argus coal price assessments, see the [Argus Coal Daily methodology](#) and the [Argus Coal Daily International methodology](#).

For a more extensive explanation of Argus emissions assessments, see the [Argus Air Daily methodology](#).

Argus' On-Time Delivery Index uses a single standard method — how the railroads' performance is perceived by the shippers who rely on them.

Shippers rank deliveries on a 1-5 scale, with 1 being the worst performance and 5 the best performance. Shippers are asked to look at the last three months of service and base the rank on how well the carrier has performed during that period.

Argus speaks to multiple shippers, both large and small, served by each major carrier and averages the ranking provided by each to demonstrate how well each carrier has done in meeting shipper requirements.

Using this qualitative method, Argus is able to provide an accurate picture of rail performance across the nation.

Delivered coal prices

Hub	Delivered to
Central Appalachia rail Big Sandy/CSX rail 12,500 1.6	By rail into east coast ports for export, Carolinas, southwest Ohio, Florida, New York, US southeast and TVA
Powder River basin fob mine/rail 8,800 0.8 fob mine/rail 8,400 0.8	ERCOT, St. Louis region, US southeast, southwest Ohio, TVA and Superior Terminal
Central Appalachia barge Nymex Spec barge 12,000 1%	Pittsburgh, southwest Ohio and St. Louis
Pittsburgh Seam fob mine 13,000 3.5 fob mine 13,000 4.5 fob mine 12,500 6.0	Florida and New York
Illinois basin Illinois/Indiana mine 11,500 5 Illinois/Indiana mine 11,000 >6.0	Southwest Ohio and Illinois basin, Gulf coast export, US southeast and Florida
Colorado/Utah Green River basin 11,300 Uinta basin, Utah 11,700	TVA and St. Louis region

Barge rate comparison

Monthly spot coal barge rates in \$/short ton are compared with fertilizer and grain barge rates. Grain barge rates are provided weekly by the US Department of Agriculture. Fertilizer barge rates are assessed by Argus on a weekly basis and published in Argus North American Fertilizer.

- Dry urea spot barge freight New Orleans - St Louis
- Dry urea spot barge freight New Orleans - Dubuque
- Dry urea spot barge freight New Orleans - Paducah barge
- Dry urea spot barge freight New Orleans - Cincinnati barge
- Dry urea spot barge freight New Orleans - Naples through Peoria

See the [Argus North American Fertilizer methodology](#).

Weekly physical coal prices

Argus Coal Transportation includes weekly coal price assessments for Americas and international markets. US coal prices are for prompt-quarter physical coal in five major regions: Powder River basin, Illinois basin, Pittsburgh Seam, Central Appalachia and Colorado/Utah. International coal prices are for the first two forward months.

Prompt quarter assessments (short tons)

- Powder River basin mine 8,800 Btu/lb 0.8lb SO2/mmBtu
- Powder River basin mine 8,400 Btu/lb 0.8lb SO2/mmBtu
- Illinois/Indiana mine 11,500 Btu/lb 5lb SO2/mmBtu
- Illinois/Indiana mine 11,000 Btu/lb 6lb SO2/mmBtu
- Pittsburgh Seam mine 13,000 Btu/lb 3.5lb SO2/mmBtu
- Pittsburgh Seam mine 13,000 Btu/lb 4.5lb SO2/mmBtu
- NYMEX-spec barge 12,000 Btu/lb <1% sulfur
- CSX rail 12,000 Btu/lb <1% sulphur
- CSX rail 12,500 Btu/lb <1% sulphur
- Western bituminous mine 11,300 Btu/lb <1% sulphur
- Uinta basin, Utah mine 11,700 Btu/lb <1% sulphur

See the [Argus Coal Daily methodology](#).

On-Time Delivery Index methodology

Argus Coal Transportation's On-Time Delivery Index is the definitive independent measure of railroad on-time performance, designed to give shippers, receivers and carriers a nationwide picture of on-time delivery.

Launched in May 1997, the index provides a standardized method of defining and measuring on-time traffic delivery, regardless of differences in individual railroad performance tracking methods. Each railroad generally defines and calculates "on-time" differently, hindering a direct comparison of carrier performance. For example, some track all movements and consider a train on time if it arrives in a roughly two-hour window, while other carriers track only certain, time-sensitive trains (such as intermodal shipments) on specified routes.

Two-month forward assessments (metric tonnes)

- Colombia fob Puerto Bolivar 11,300 Btu <1% sulphur

See the [Argus Coal Daily methodology](#).

- cif ARA 6,000 kcal <1% sulphur
- fob Richards Bay 6,000 kcal <1% sulphur

See the [Argus Coal Daily International methodology](#).

Competing fuels analysis

Argus Coal Transportation includes a weekly comparison of US coal and natural gas prices delivered to five major destinations (see the competing fuels analysis table). Prices are published in \$/short ton and \$/mmBtu for coal, and \$/mmBtu for natural gas.

Competing fuels analysis	
Commodity	Destination
PRB coal	
fob mine/rail 8,400 0.8lb SO2	Southwest Ohio, Tennessee Valley Authority, Southeast
Illinois basin coal	
Illinois/Indiana mine 11,500 5lb SO2	Southwest Ohio, US Gulf coast
Central Appalachian coal	
Big Sandy/CSX rail 12,500 1.6lb SO2	Southwest Ohio, US east coast, Tennessee Valley Authority, Southeast
Nymex Spec barge 12,000 1%	US Gulf coast
Western bituminous coal	
Green river basin 11,300 <1%	Tennessee Valley Authority
Natural gas	
Col Gas Appalachia day-ahead	Southwest Ohio
TGT zone 1 day- ahead	Tennessee Valley Authority
Florida Gas zone 3 day-ahead	Southeast