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ARGUS EUROPEAN NATURAL GAS

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The most up-to-date Argus European Natural Gas methodology is available on www.argusmedia.com

Introduction

The Argus European Natural Gas report is a daily market and news report on the European natural gas market.

The report covers all major European traded gas markets, produces assessment and deals based indices for these markets, and covers UK and Dutch spark spreads.

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

1) Markets covered

a) NBP

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (p/th)

Contracts quoted

Day-ahead

Weekend

Current month

Five months forward

21 quarters and 11 seasons forward

Two calendar years forward (January-December)*

Two gas years forward (October-September)*

Note: Day-ahead and weekend gas

Day-ahead assessments cover the next working day after the day of publication. Weekend assessments cover the next weekend after the day of publication, except when a UK public holiday falls in the middle of a week, when the weekend price published between the weekend and the public holiday will refer to the public holiday(s). This applies to all markets — continental gas assessments also follow the UK public holiday schedule, rather than that of any other country.

* = assessment is mathematical average of constituent periods

b) Zeebrugge

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (p/th) and (€/MWh)

Note: Currency conversion

Currency conversions are calculated using the relevant period on a sterling-euro exchange rate curve also published in the Argus European Natural Gas report.

Contracts quoted

Day-ahead

Weekend

Current month

Five months forward

9 quarters and 5 seasons forward

Two calendar years forward (January-December)*

* = assessment is mathematical average of constituent periods

c) TTF

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

Weekend

Three months forward

9 quarters and 5 seasons forward

Two calendar years forward (January-December)

d) Gaspool (formerly BEB/Bunde-Oude)

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

Weekend

Three months forward

9 quarters and 5 seasons forward

Two calendar years forward (January-December)

e) St Fergus

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (p/th)

Contracts quoted

Day-ahead

Weekend

Current month

Two months forward

One quarter forward

f) PEG Nord

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

Weekend

One month forward

One quarter forward

One season forward

Note: Argus publishes a weekend Peg Nord price on Fridays and on the final business day preceding a UK public holiday [see note, p2]

g) Peg Sud

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

h) NCG (formerly EGT)

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

One month forward

i) Baumgarten

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

One month forward

j) PSV

Assessment — best bid and best offer available at end-of-day

Timestamp — 4.30pm UK time

Unit — (€/MWh)

Contracts quoted

Day-ahead

One month forward

One season forward

Basis

Midpoint basis differentials are published for the following spreads:

Zeebrugge-NBP (p/th)

NBP-St Fergus (p/th)

Gaspool-TTF (€/MWh)

TTF-Zeebrugge (€/MWh)

Peg Nord-Zeebrugge (€/MWh)

Peg Nord-TTF (€/MWh)

Peg Sud-Peg Nord (€/MWh)

Peg Sud-TTF (€/MWh)

NCG-Gaspool (€/MWh)

NCG-TTF (€/MWh)

Baumgarten-NCG (€/MWh)

Baumgarten-PSV (€/MWh)

PSV-TTF (€/MWh)

PSV-NCG (€/MWh)

Argus Current month methodology

The Argus current month quotes for NBP, St Fergus and Zeebrugge are, until the final days of a month, analogous to a balance-of-the-month quote: that is, a contract that runs from the period beyond (but not including) the contract adjacent to within-day, be it day-ahead or weekend, until the end of the month. However, when the over-the-counter balance-of-the-month contract expires/moves into front month, the Argus current month contract picks up the remainder of contracts within that month. For example, on a month's penultimate trading day, current month will equal day-ahead (or Saturday, if falling on a Friday). On its final day, current month will be the within-day price at the time stamp.

2) Indices

Argus Monthly Buy-Sell Indices

A running monthly average of the end-of-day bid-offer assessments reported in the Argus European Natural Gas report for day-ahead, current month, and first month forward. Day-ahead, current-month and front month indices are published for NBP, Zeebrugge and St Fergus. Day-ahead and front month indices are available for TTF and Gaspool (formerly BEB), NCG, PEG Nord and PSV.

The average is for the days on which the report was published during the current month. The final indices should be taken as those published on the last day of the month.

Note: Weekend

Weekend assessments form no part of day-ahead buy-sell indices. An every-day index, including weighting for weekend prices, is

available as part of the Argus European Natural Gas datafile.

Argus within-day index

An average price of all within-day NBP deals recorded in Argus European Natural Gas on the day of publication, weighted according to the volume of gas traded in each deal.

Note: Deals

Two parties reporting identical deals will be assumed to be counterparties to the same deal, unless Argus is able to confirm otherwise.

Argus Current-Month Recorded Deals Indexes

Running weighted monthly averages of the deals recorded in the Argus European Natural Gas report for the current month during the current month. The average is weighted according to the total volume of gas traded in each deal. Indices are produced for the NBP and Zeebrugge markets. The Zeebrugge average includes deals done at both the Zeebrugge hub and the Zeebrugge flange. The indices are recorded in p/th, but the Zeebrugge index is also converted into €/MWh and €/GJ.

3) Spark spreads

The Argus European Natural Gas report produces spark spreads for the UK and the Netherlands, incorporating end-of-day assessments from its sister publication Argus European Electricity.

UK spark spreads are in £/MWh and assume an efficiency rate of 49.13pc (industry standard).

Dutch spark spreads are in €/MWh and assume an efficiency rate of 49.13pc. Dutch spark spreads are not published on Dutch public holidays, due to the unavailability of Dutch electricity assessments.

Roll dates

Each quarter will be January-March, April-June, July-September and October-December.

Monthly assessments will roll on the first day of the month.

Quarterly assessments will roll on the first day of each quarter.

Latest revision: January 2012