Information Provision

Transmission Workgroup

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Background

- Last year NG ran a “Information Provision Consultation” on both the balancing and the gas quality data we provide.
- Gas Balancing: Obligation in the EU Balancing Code for the TSO to consult stakeholders on, and assess the benefit of,

  Article 38 (1) (a) increasing the frequency of information provision to network users

  (b) reducing the related timeline of information provision;

  (c) improving the accuracy of the information provided

- Gas Quality: Obligation in the EU Interoperability Code for the TSO to assess;

  Article 17.3 (b) (i) the relevant information on gas quality parameters to be provided

  (ii) the frequency of the information to be provided

  (iii) the lead time

  (iv) the method of communication”

- Received 3 responses to the consultation from RWE, EDF Energy and Energy UK.

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Data issues

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Data inconsistencies

- Allocations and nominations data in MIPI are not the same as measured End of Day data in Gemini meaning that there was a mismatch between physical flows measured in the “Actual Offtake Flows Report” and the “Aggregate Allocation Report” and the “Nominations Report” (the later 2 having the issue).
  - Gemini sending information across to MIPI light; or
  - MIPI is not processing
- Fix to this data was deployed since 13th February which aligned the three reports
- Historical data was also corrected at the beginning of April 2017
- Any future data issues should be directed to box.OperationalLiaison@nationalgrid.com

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Real time gas quality data

Drivers

"UNC Modifications which have sought to introduce changes to gas quality parameters – need for greater understanding of the gas composition at NTS entry and exit points in order to assess the impact on plant and equipment of fluctuating gas quality. Timely provision of this data would enable operators to proactively manage any changes to equipment and plant that may be required as a result of variations to gas quality entering sites."

"Real time gas quality information as being delivered to the NTS. This would enable operators at offtakes with sensitive offtakes to develop an understanding of the entry flow relationships with the gas quality of gas delivered at its offtake point. The data should be stored and accessible, daily data does not provide sufficient granularity to support analysis.
This will support analysis and understanding of changing gas quality parameters and supply pattern and support informed debate over gas quality issues in the future..."

"We need information in real time and fit appropriate measurement equipment to get live data in order to tune combustion. Getting average daily data or even predictions of the next days data would not be any use".

What do we mean by real time gas quality information?

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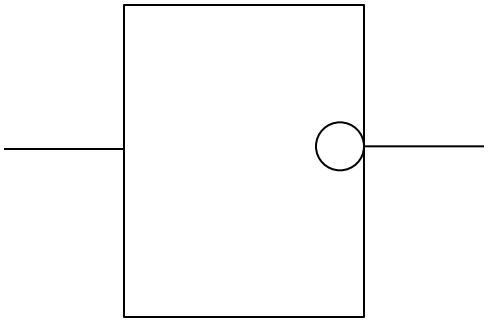
- Below is the list of Gas Quality factors NG would be looking to potentially publish. We measure each of these factors every 2-5 minutes.
  - Hydrogen Sulphide
  - Total Sulphur
  - Oxygen
  - Hydrocarbon Dewpoint
  - Water Dewpoint
  - Wobbe Number
  - Incomplete combustion factor
  - Sooting Index
- NG already collects this data from upstream parties (and it goes into a internal system). There would be no additional equipment needed at sites in order to capture this data and therefore no additional costs.
- NG would however require explicit permission in order to publish this data externally.

Sites

Single Supplier Entry Points

(Upstream parties data)

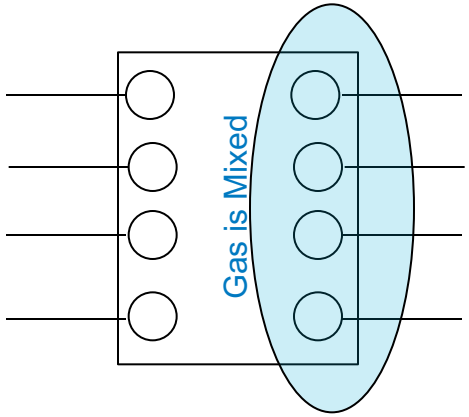
- Barrow
- Theddlethorpe
- Isle of Grain
- Burton Point



Multiple Supplier Entry Points

(NG's data)

- St Fergus
- Bacton
- Teeside
- Easington
- Milford Haven



Oil & Gas UK Forum

- 26th April attended the Oil & Gas UK Forum to talk to members about the possibility of publishing real time gas quality data, particularly that data which belongs to upstream parties.
- Attendees:
  - ENI
  - ConocoPhillips
  - Apache
  - BP
  - Shell
  - ExxonMobil
  - Statoil

Feedback

- Members had a number of concerns around publishing real time gas quality data:
  - Confidentiality clauses exist within processing and allocation agreements between the terminal operators and upstream parties which would require amendment
    - At some locations there is only one upstream party but at other there could be up to 40 upstream parties with multiple agreements
    - Isle of Grain and Milford Haven there is a different type of agreement in place due to cargo coming from across the world
  - The real time gas quality information would only be a true refection of the gas composition received at power stations which are very close in proximity to that entry point prior to blending having taken place and therefore may indicate a gas specification which is not accurate
  - Gas quality specification parameters means that gas entered onto the system has to be between a specific range
  - Short term minor variations in specification may create unnecessary volatility in the gas market
  - Terminal operators and NG work very closely together to ensure gas delivered onto the NTS is within the gas quality specification range
  - Unclear on what the driver is for requesting this information. What specific issue that could be resolved by the publication of real time gas quality information?