



UNC 0870: Amendments to Wobbe Index & Calorific Value Lower Limits at NTS System Entry Points

Gas Quality Data Provision

04 July 2024



Options Discussed

At April Transmission Workgroup NGT presented 7 options for Gas Quality Data Transparency:

1. Publish CV & Wobbe at GDN Offtakes on Gas Data Portal (formerly MIPI)
2. Publish CV, Wobbe, N, CO₂ & RD at GDN Offtakes on Gas Data Portal (formerly MIPI)
3. Publish Wobbe & CV at NTS Entry Points
4. Publish Wobbe & CV at NTS Entry Points downstream of which there are sensitive customers
5. Heat Maps
6. Automated email alerts of Wobbe excursions
7. Forecasting Service

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NB: As first step towards greater Gas Quality Data Transparency in relation to the change to the Lower Wobbe Limit these options were selected to be developed further.

System Requirements

To maximise the benefits to of the system developed, it is important to discuss requirements with stakeholders. NGT proposes the following, stakeholder views on these are welcome.

Tracker sites:

- Tracker sites use data measured at other sites nearby to give an assumed gas quality at the tracker site (20/118 Offtakes).
- Propose to exclude these sites from gas quality reporting.

Compressor and MJ Sites

- NGT has gas analysers at some compressor and multi-junction sites.
- Propose to include data from compressor and multi-junction sites where doing so would not risk breaching upstream confidentiality agreements.

API

- Gas quality data would be available through the API where it can be automatically downloaded and stored by users

System Requirements

Data Storage

- Due to the large amounts of data, we propose 24 hours is stored and searchable data on the Gas Data Portal.
- Relevant data to individual users can be pulled via the API and stored locally.

Errors

- Data would be provided for general information purposes only, in line with the Gas Data Portal Data Disclaimer
- If a failure occurs, options include:
 - Showing last received data for that site, with timestamp
 - Showing 'error'
 - Showing a null/blank

Data presentation

- Available to view as 'most recent' or as searchable report for as long as data is stored
- Similar to 'instantaneous flow data'

Mock Report

Site	Area	Timestamp	24 Hr Average CV (MJ/m ³)	24 Hr Average SG	Calorific Value (MJ/m ³)	Specific Gravity	Wobbe Index (MJ/m ³)	CO2 Content (%mol)	Nitrogen Content (%mol)
AberdeenOT	SC	18/06/24 09:00:11	39.72	0.61	39.72	0.614	50.69	0.46	0.43
AlrewasEMOT	EM	18/06/24 09:06:56	39.57	0.63	39.57	0.626	50.01	0.26	0.45
AlrewasWMOT	WM	18/06/24 09:00:13	39.22	0.62	39.22	0.623	49.68	0.47	0.31
ArmadaleOT	SC	18/06/24 09:01:10	39.63	0.61	39.63	0.606	50.89	0.21	0.32
AspleyOT	WM	18/06/24 09:00:06	38.32	0.62	38.32	0.622	48.59	0.34	0.43
AsselbyOT	NE	18/06/24 09:04:49	38.46	0.62	38.46	0.623	48.75	0.37	0.36
AucklandOT	NO	18/06/24 09:04:30	38.39	0.64	38.39	0.641	47.97	0.43	0.42
AucklandTFOT	NO	18/06/24 09:06:27	39.61	0.62	39.61	0.621	50.27	0.40	0.43
AudleyNWOT	NW	18/06/24 09:06:24	39.88	0.63	39.88	0.630	50.26	0.30	0.37
AudleyWMOT	WM	18/06/24 09:02:49	39.44	0.62	39.44	0.622	49.99	0.40	0.35
AustreyOT	WM	18/06/24 09:04:06	38.49	0.63	38.49	0.633	48.39	0.36	0.34
AylesbeareOT	SW	18/06/24 09:05:44	39.30	0.63	39.30	0.633	49.40	0.21	0.40
BactonOT	EA	18/06/24 09:00:45	39.04	0.62	39.04	0.616	49.75	0.33	0.34
BaldersbyOT	NE	18/06/24 09:06:59	38.42	0.63	38.42	0.631	48.35	0.30	0.43
BalgrayOT	SC	18/06/24 09:04:47	38.33	0.61	38.33	0.606	49.24	0.23	0.31

Thank you

