

UNC Mod Proposals 0498/0502

– Update on actions



Transmission Workgroup
2nd October 2014
National Grid NTS
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Action 802 (1)

nationalgrid

Variability data for major entry/exit points

- NTS Feeder Main data from “spot” locations in the East, North East, North West and North/Scotland
- Daily average CO₂ for 12 months
- Hourly average CO₂ for 1 day
- Minute by minute CO₂ for 2 hours

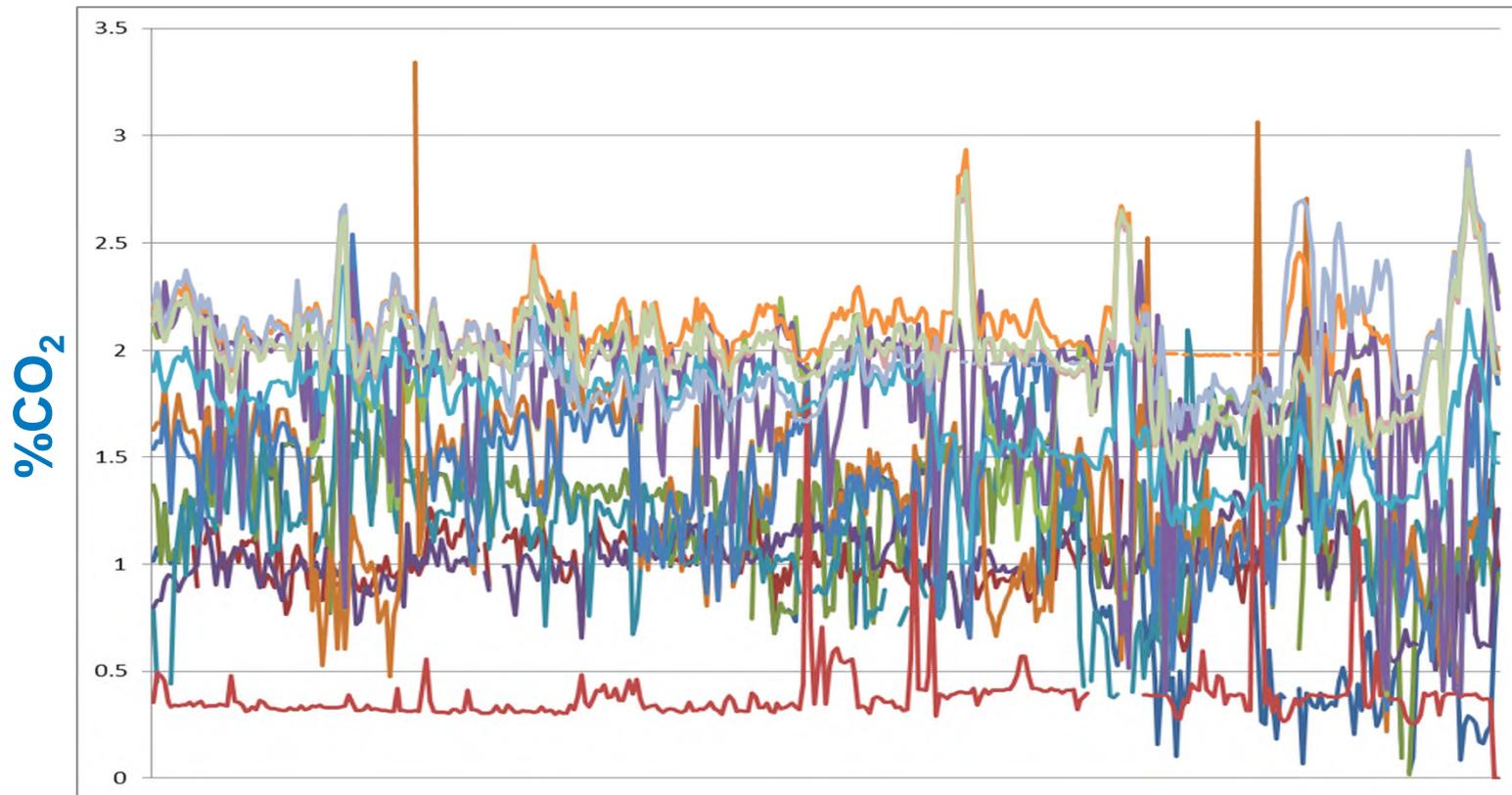
Action 802 (2)

nationalgrid

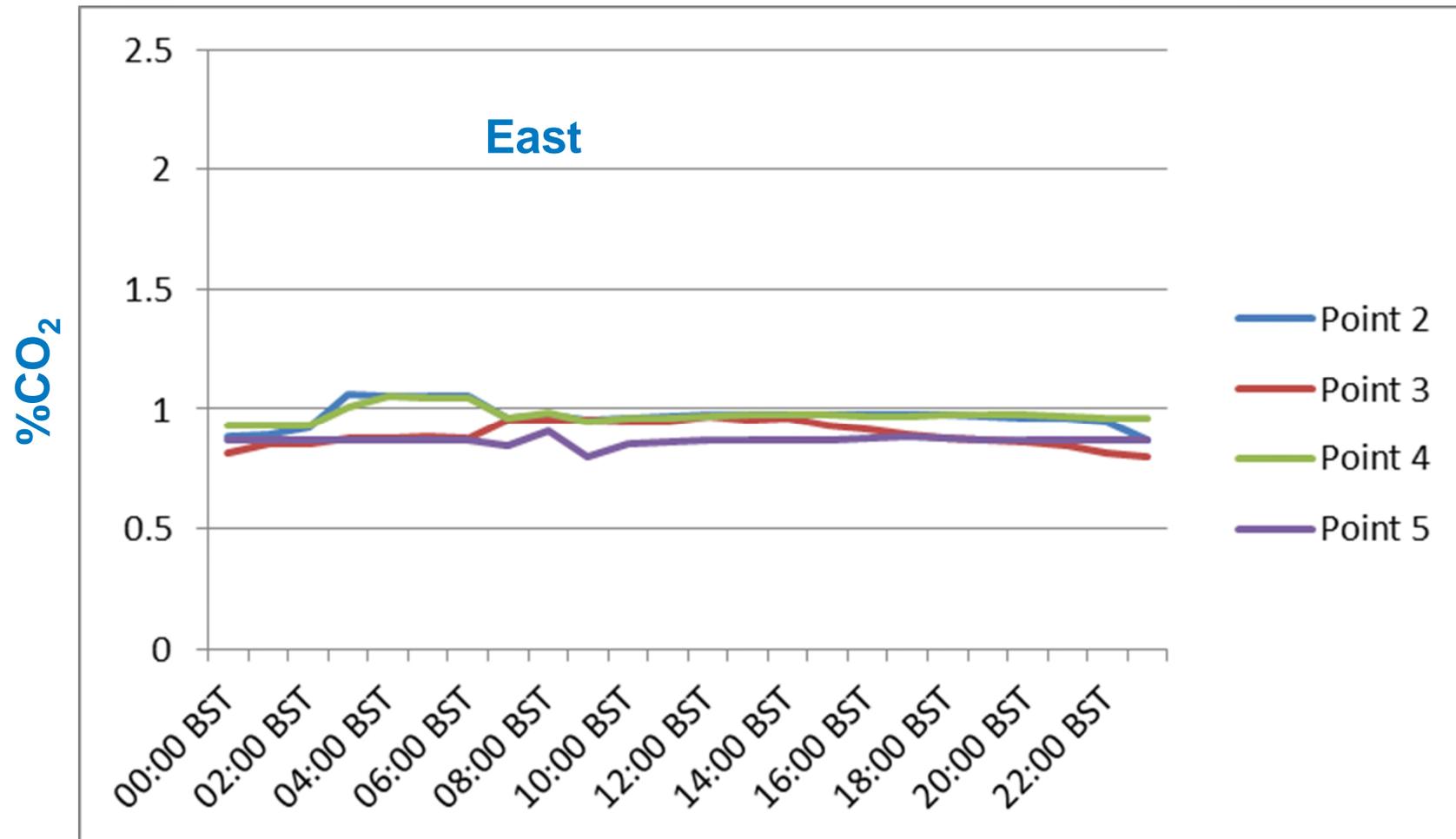
Variability data for major entry/exit points

Daily average CO₂ for 12 months (Sept 13 to Aug 14)

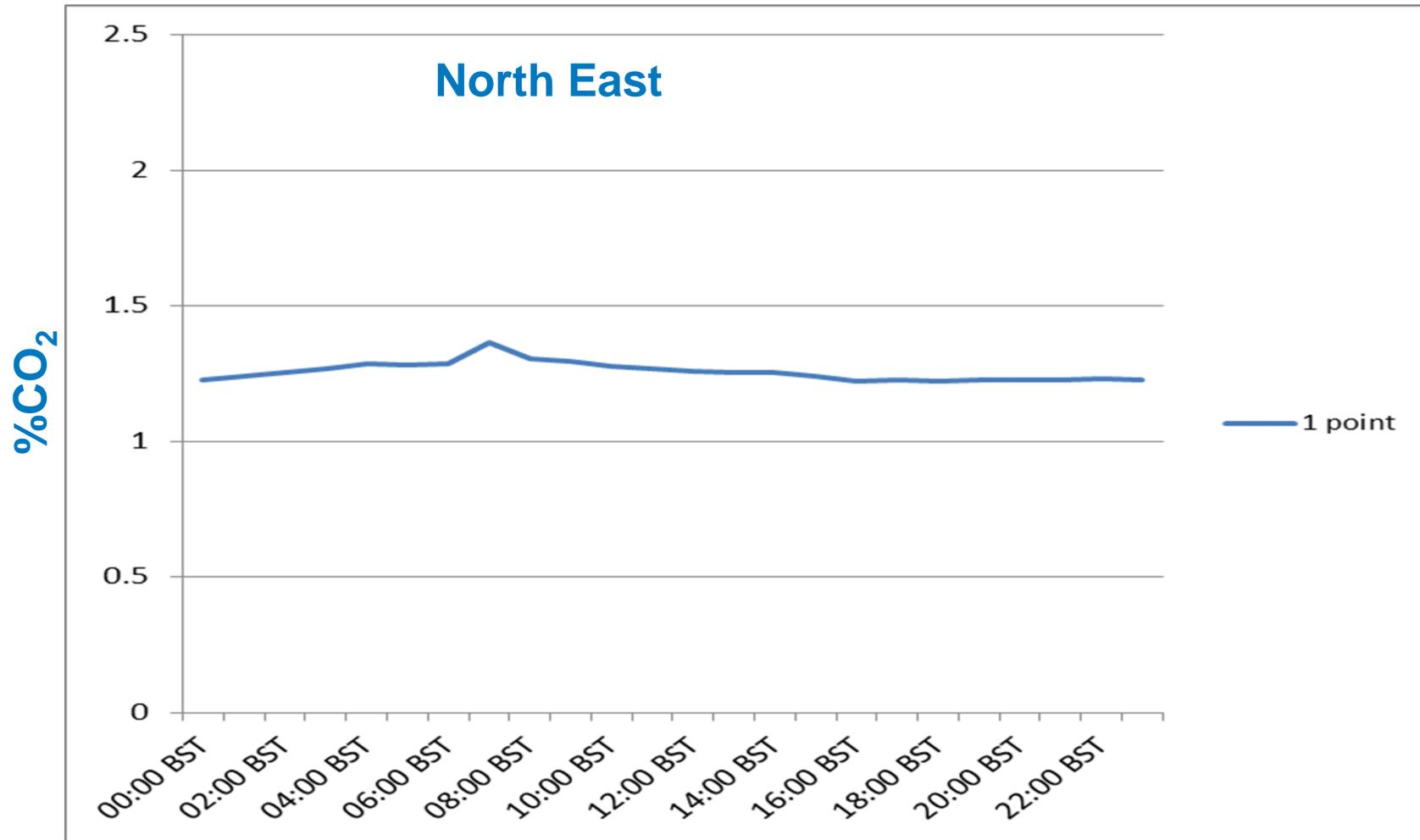
Average over 12 months for all spot locations = 1.41%



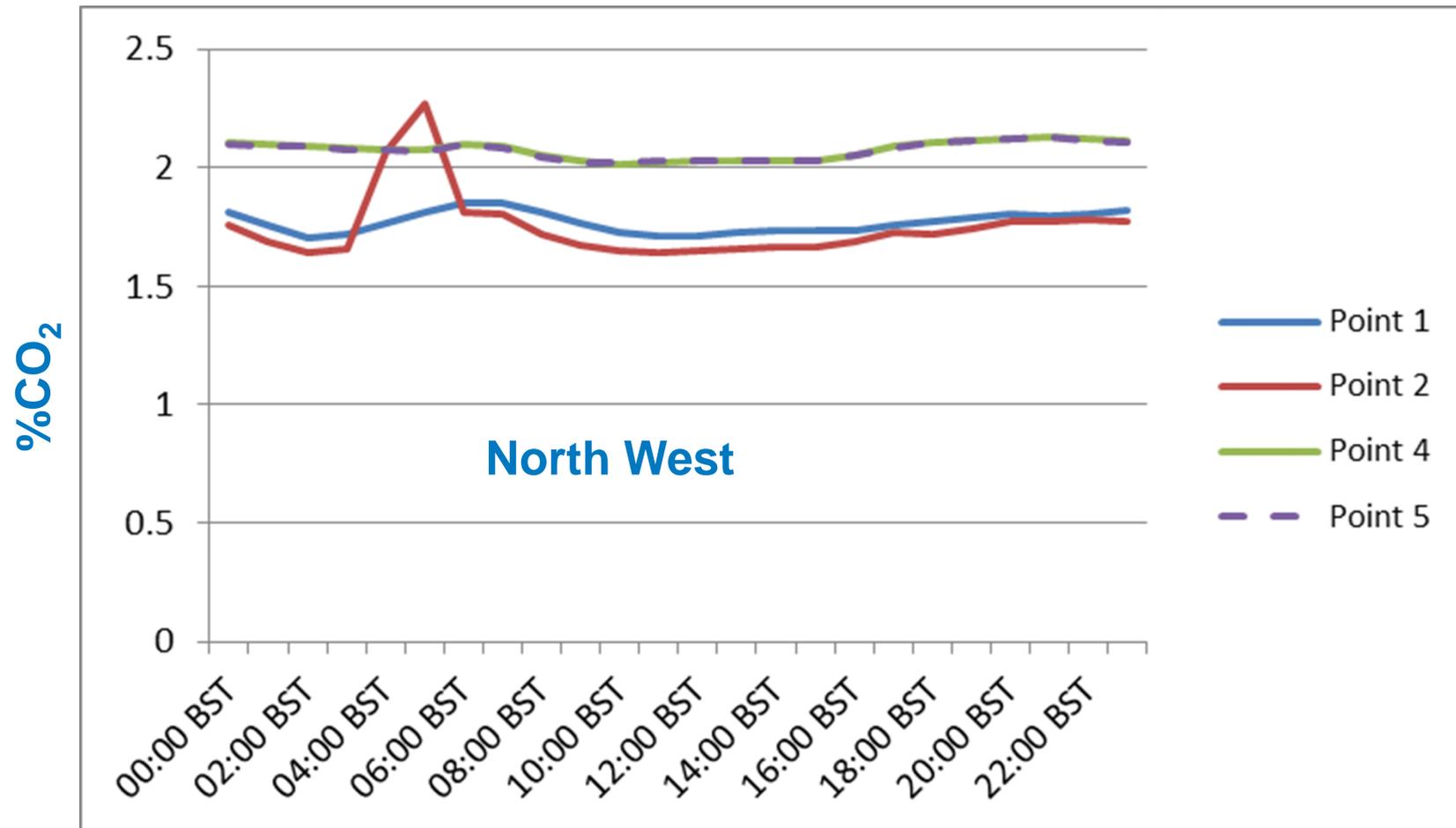
Action 802 Hourly averages %CO₂



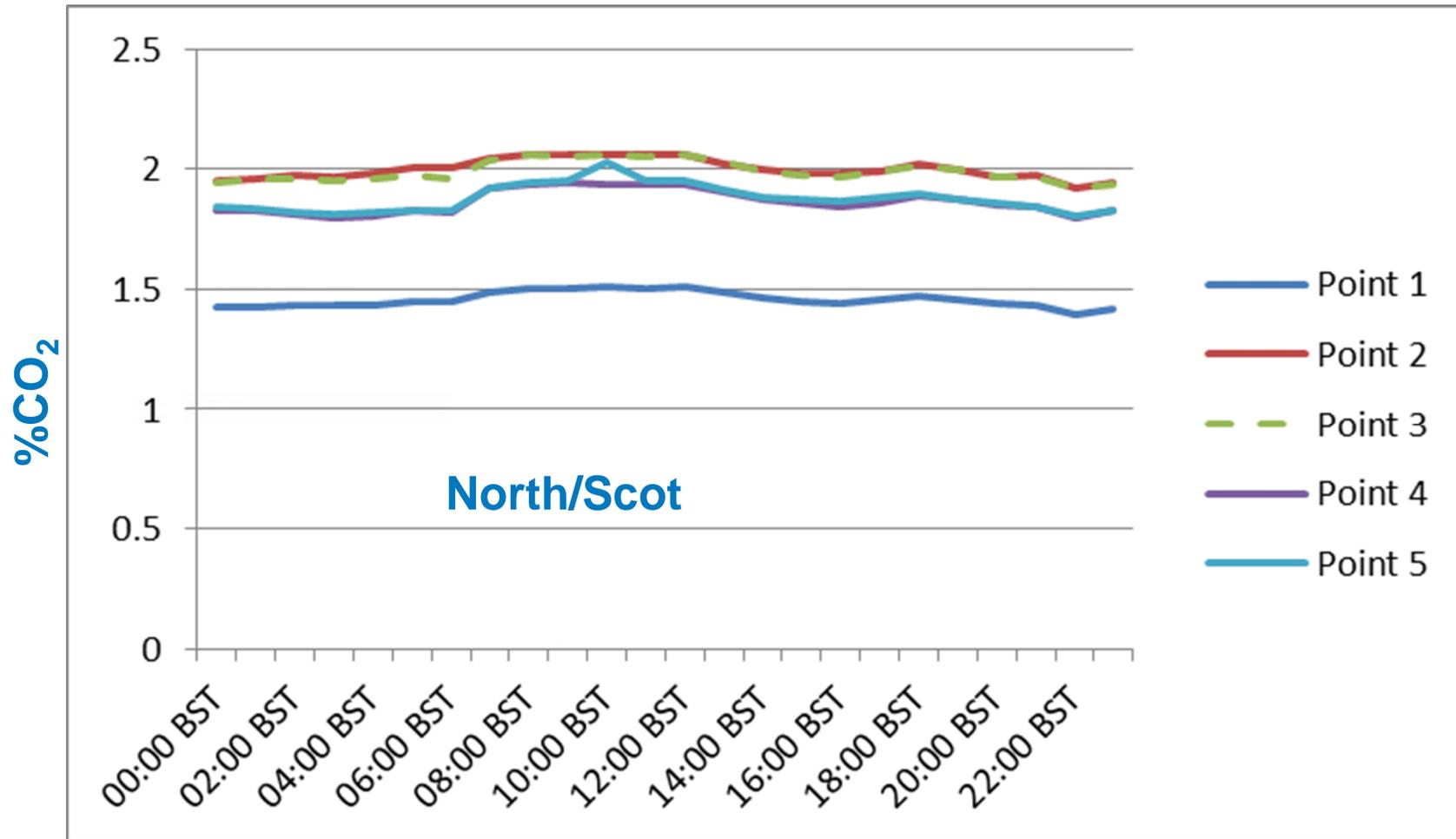
Action 802 Hourly averages %CO₂



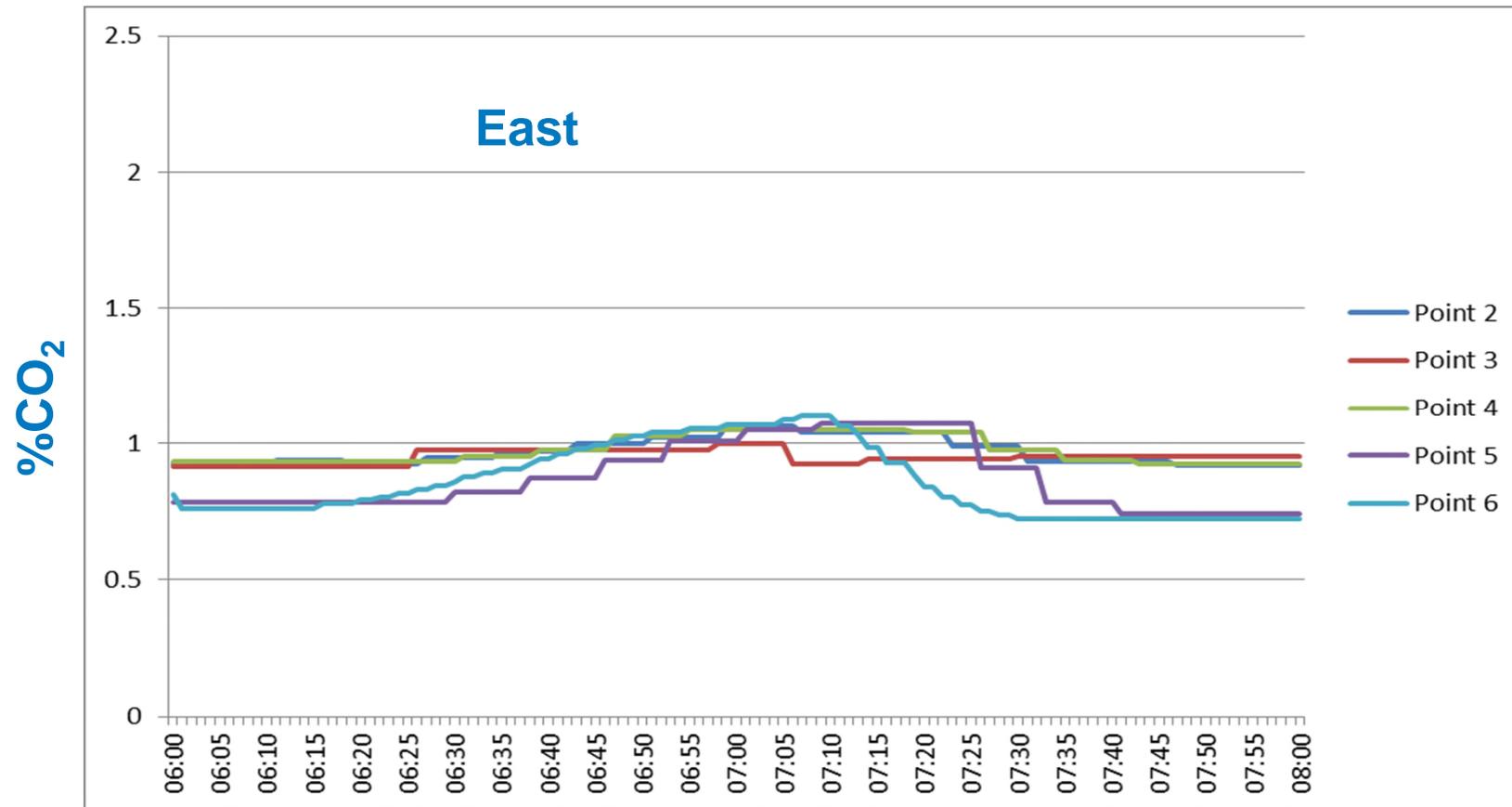
Action 802 Hourly averages %CO₂



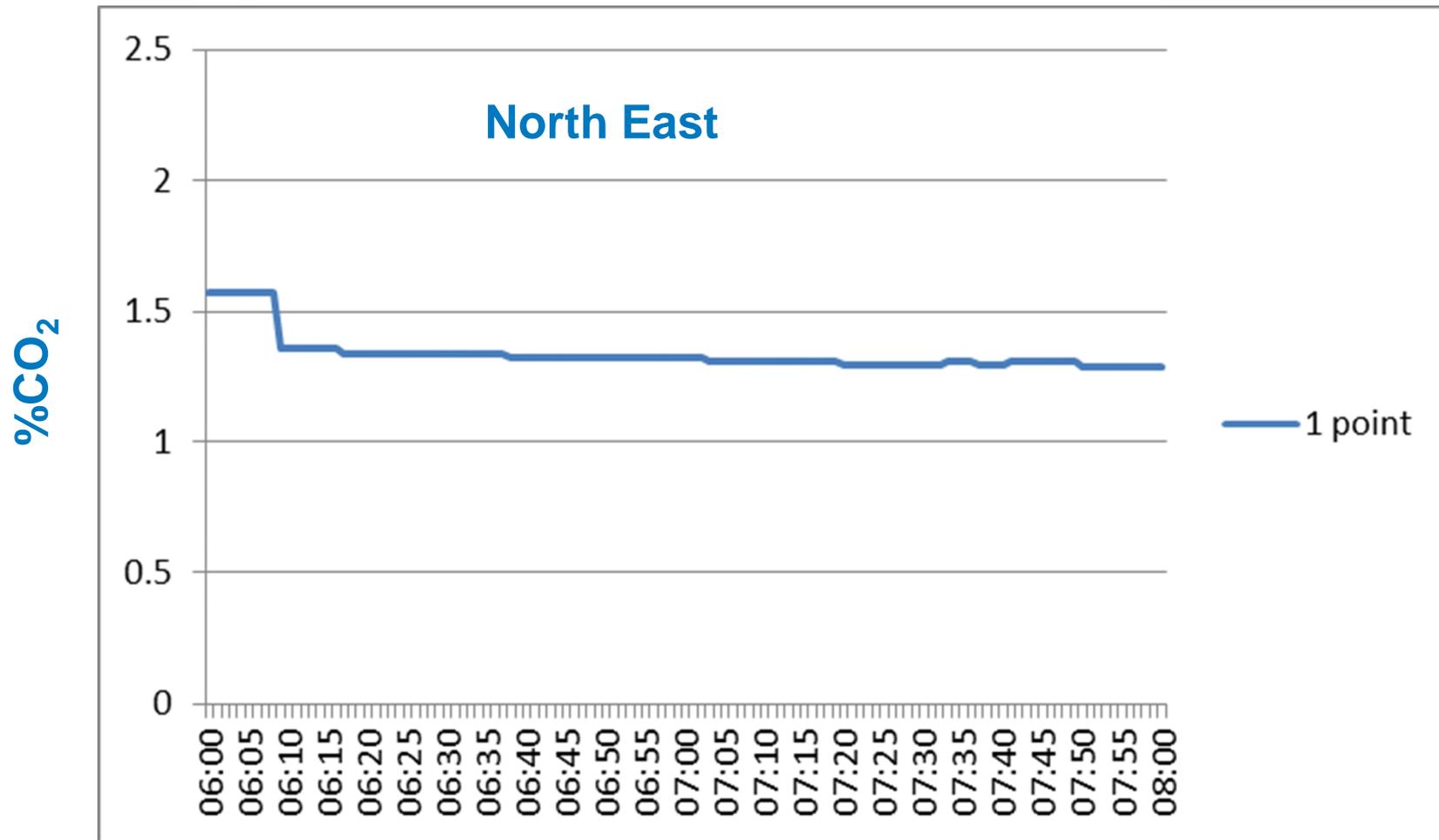
Action 802 Hourly averages %CO₂



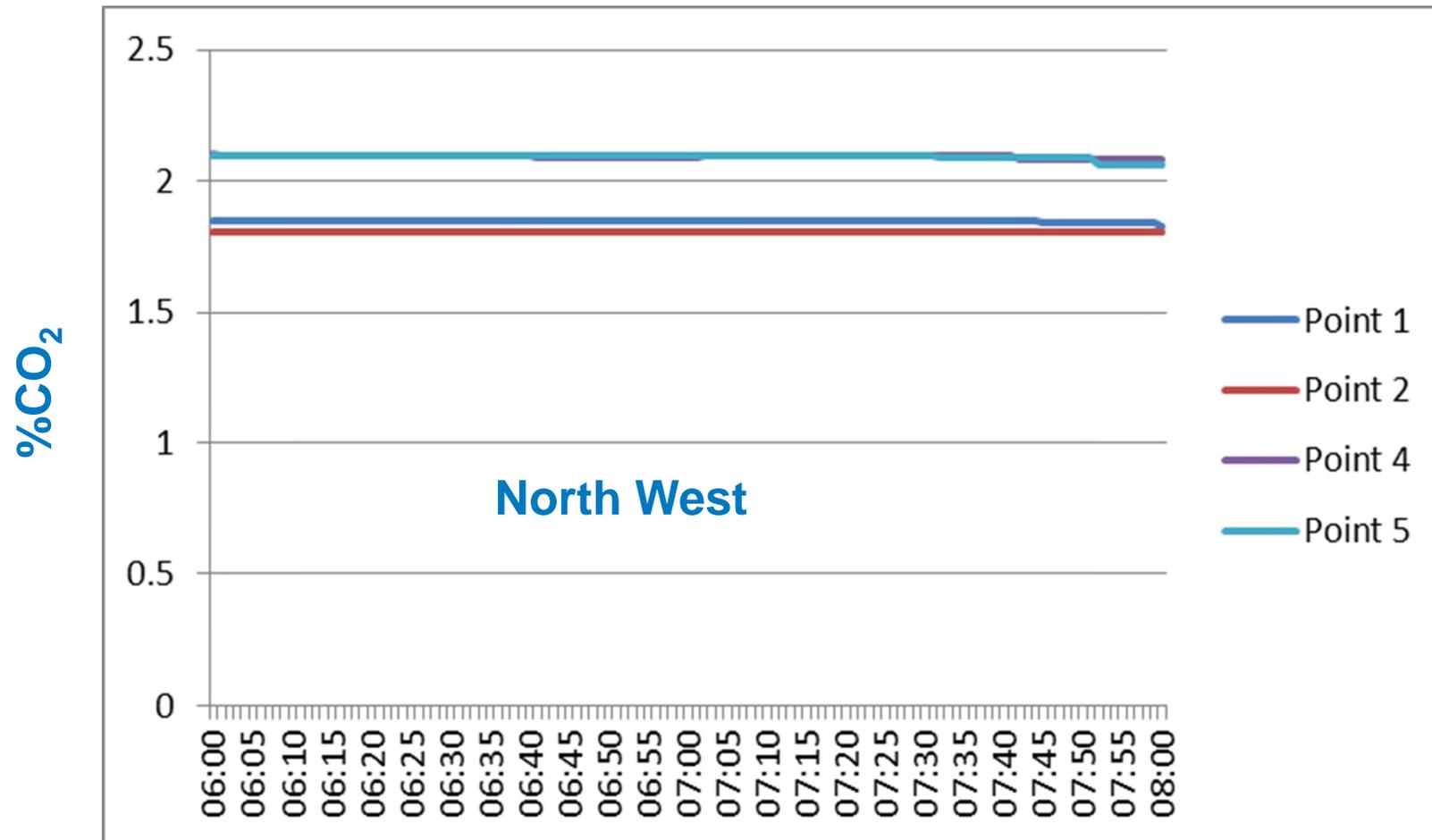
Action 802 Minute by minute %CO₂



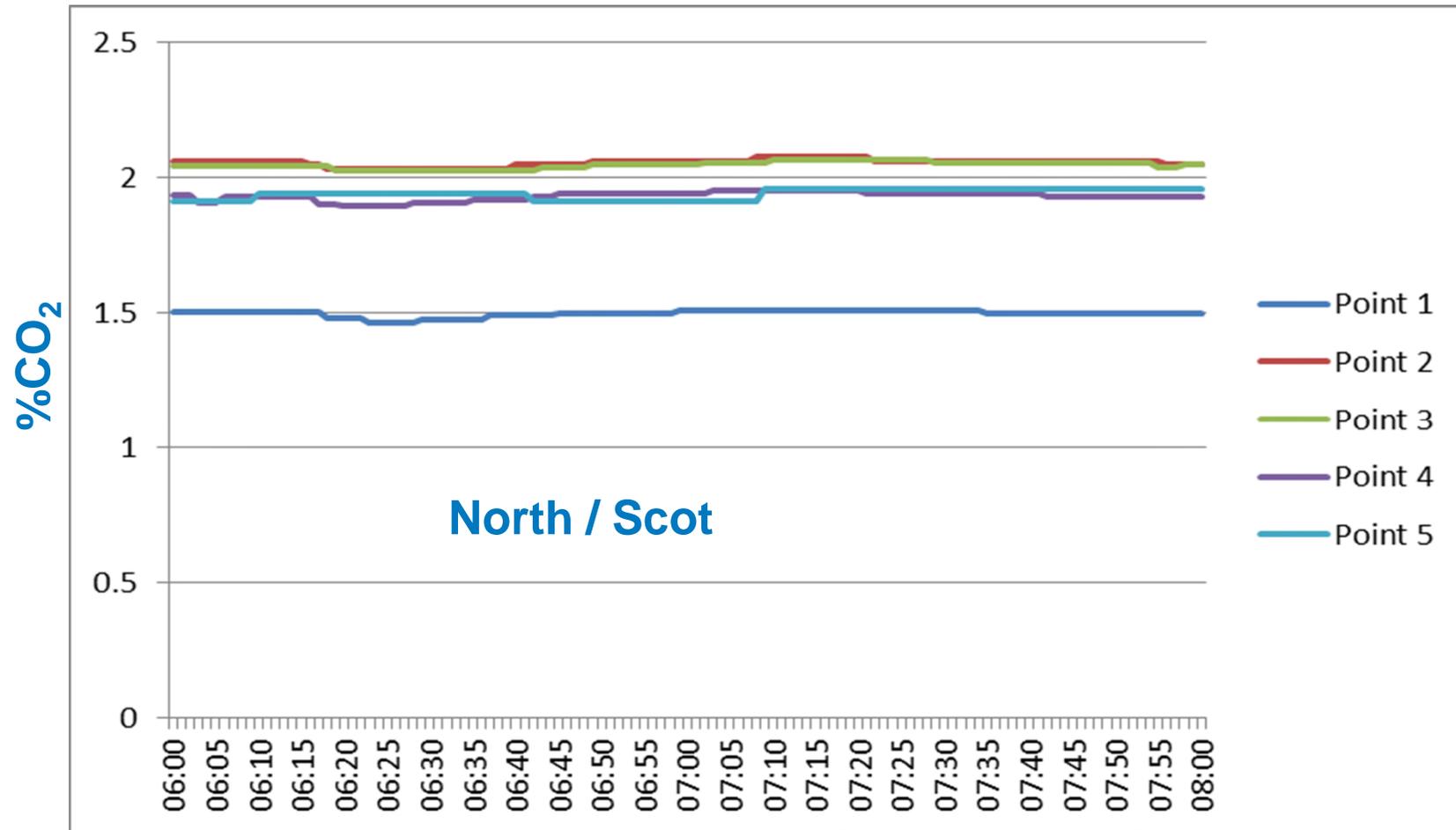
Action 802 Minute by minute %CO₂



Action 802 Minute by minute %CO₂



Action 802 Minute by minute %CO₂



UNCORM data dictionary – Daily CV

<http://www.gasgovernance.co.uk/sites/default/files/v11%20Data%20Dictionary%20version11.xls>

Calorific Value by LDZ charging zone for the gas day. The weighted average CV of all supplies into each charging zone.

The average daily Calorific Value in Mega Joules/ Cubic Meters (MJ/scm) at NTS Entry Points.

Calorific Value of the gas offtaken at Individual Exit Points. Amendments received up to D+6.

Available in MIPI data categories CV, Demand and Supplies

<http://www2.nationalgrid.com/uk/industry-information/gas-transmission-operational-data/data-item-explorer/>

Action 901

Data request to sub – terminals (CO2, CV, Wobbe)

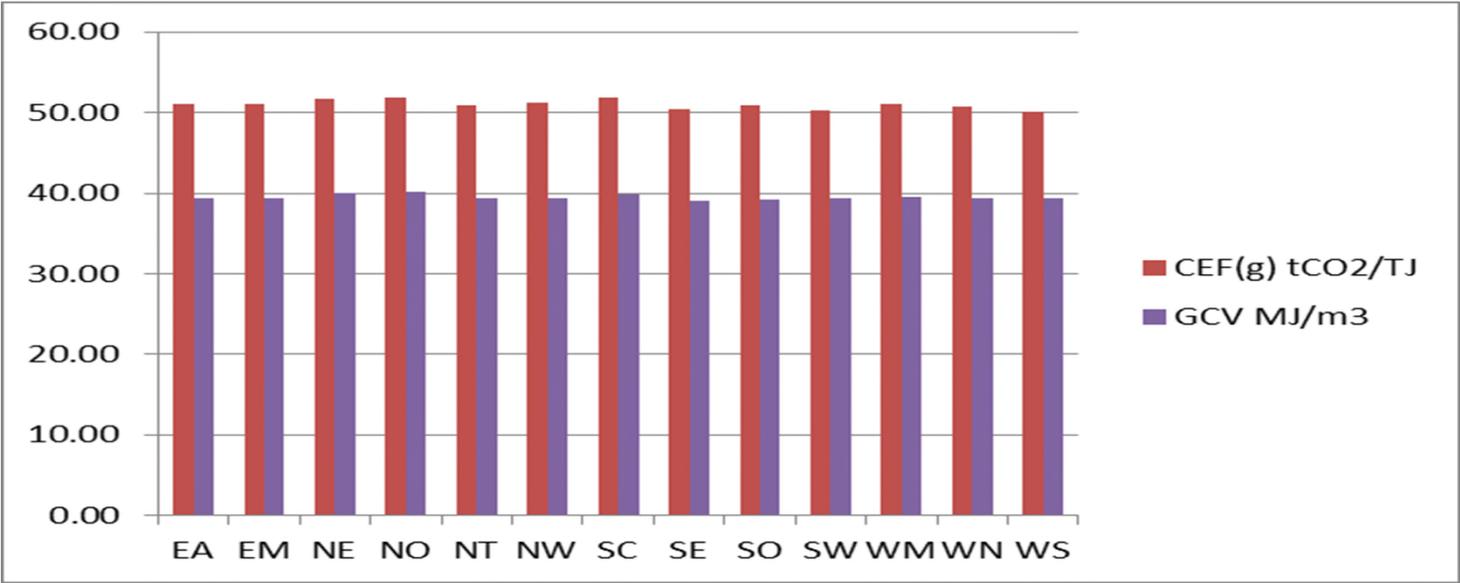
Sub Terminal	Response (as at 24 th Sept)
Bacton BBL	Awaiting response
Bacton IUK	National Grid letter only sent late
Bacton Parenco	Awaiting response
Bacton Seal	NG clarification provided – awaiting response
Bacton Shell	NG clarification provided – awaiting response
Barrow	Actively being considered
Easington Dimlington	Awaiting response
Easington Langedled	Data received and sent to Joint Office
Easington Rough	Data received and sent to Joint Office
St Fergus Apache	Concern about confidentiality
St Fergus Shell	NG clarification provided – awaiting response
St Fergus Total	Concern about confidentiality
Teesside BP	See 7 th August presentation
Teesside PX	See 7 th August presentation
Theddlethorpe	Awaiting response

Action 902

CO₂ at NTS Compressors

- NG NTS does not as a matter of course measure CO₂ within fuel gas at compressor stations
- NG NTS uses DECC Carbon Emission Factors

<https://www.gov.uk/government/statistics/the-uk-greenhouse-gas-inventory-carbon-emission-factors-and-calorific-values>



Action 904

CV shrinkage (clarification)

- Modelling process available publically e.g. at:

<http://www.gasgovernance.co.uk/sites/default/files/Alignment%20of%20CV%20and%20Wobbe%20Numbers%20at%20NTS%20Entry%20Points%20Shrinkage%20Analysis%201.0.pdf>

- Inherent modelling uncertainty about +/- 40GWh/year
- For a potential range of scenarios

CV	CVS (inc. uncertainty)	% annual NTS shrinkage	% annual NTS throughput
MJ/m3	GWh/yr	%	%
41.7		Base case	Base case
40.9	-35	-0.875%	-0.004%
39.8	+110	+2.750%	+0.012%
		100% ~4000GWh	100% ~900TWh