## **UNC Mod Proposals 0498/0502**

Update on actions





Transmission Workgroup 2<sup>nd</sup> October 2014 National Grid NTS Dennis Rachwal

#### **Contents**

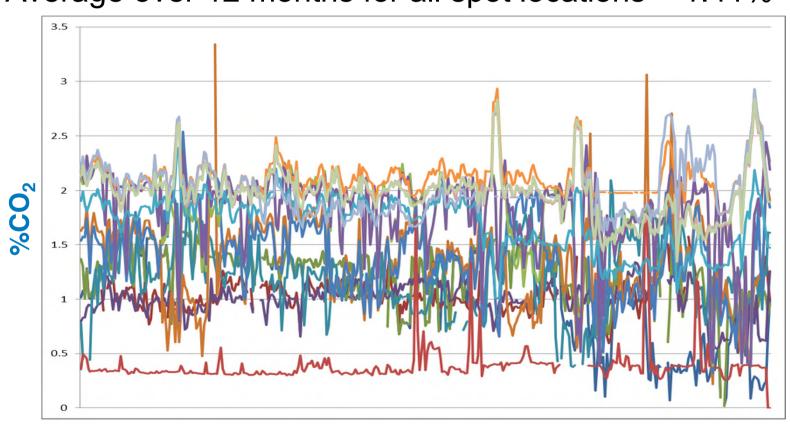
- Action 802 Variability data for major entry/exit points
- Action 803a UNCORM Data Dictionary Daily CV
- Action 901 Sub-Terminal data request
- Action 902 CO<sub>2</sub> measurement at Compressor sites
- Action 904 CV shrinkage (clarification)

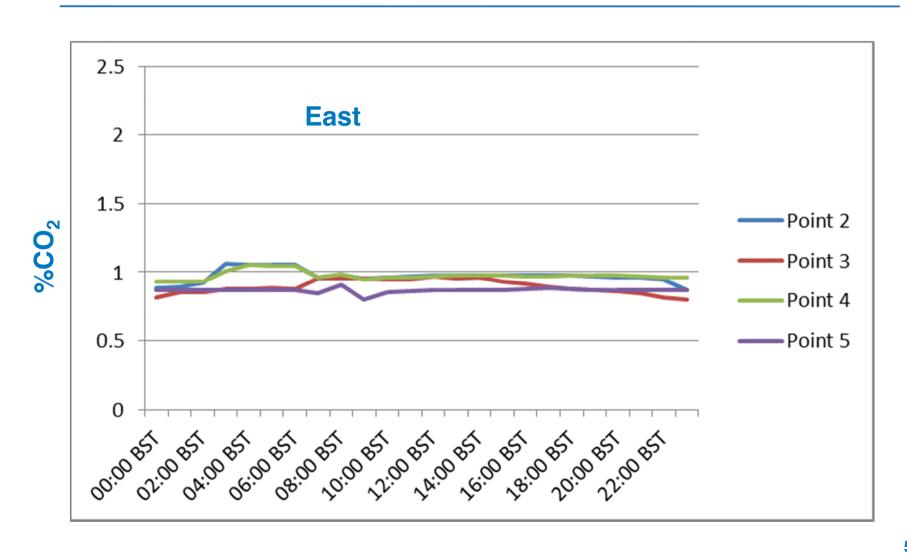
# Action 802 (1) nationalgrid Variability data for major entry/exit points

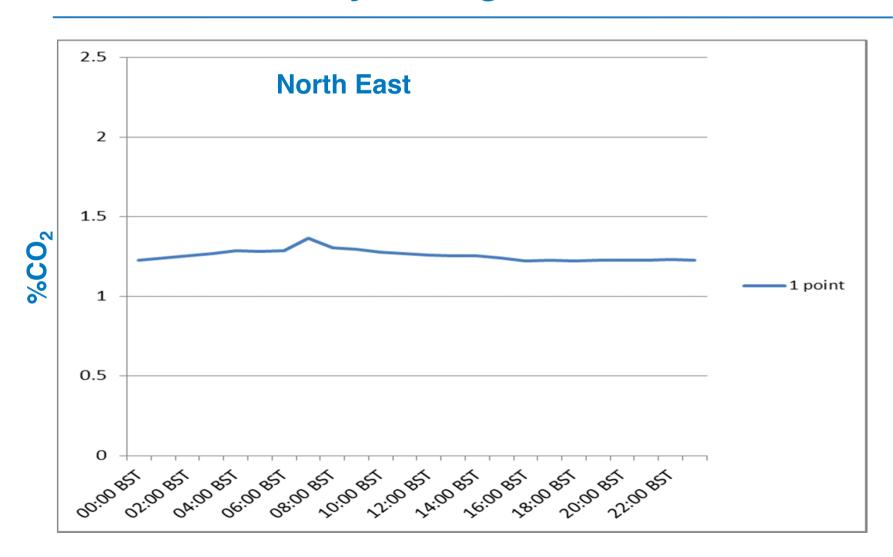
- NTS Feeder Main data from "spot" locations in the East, North East, North West and North/Scotland
- Daily average CO<sub>2</sub> for 12 months
- Hourly average CO<sub>2</sub> for 1 day
- Minute by minute CO<sub>2</sub> for 2 hours

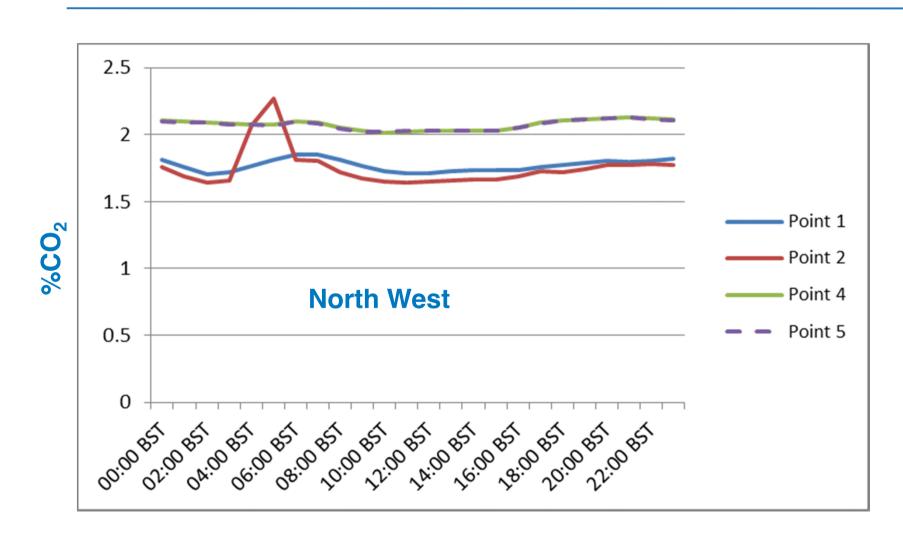
# Action 802 (2) nationalgrid Variability data for major entry/exit points

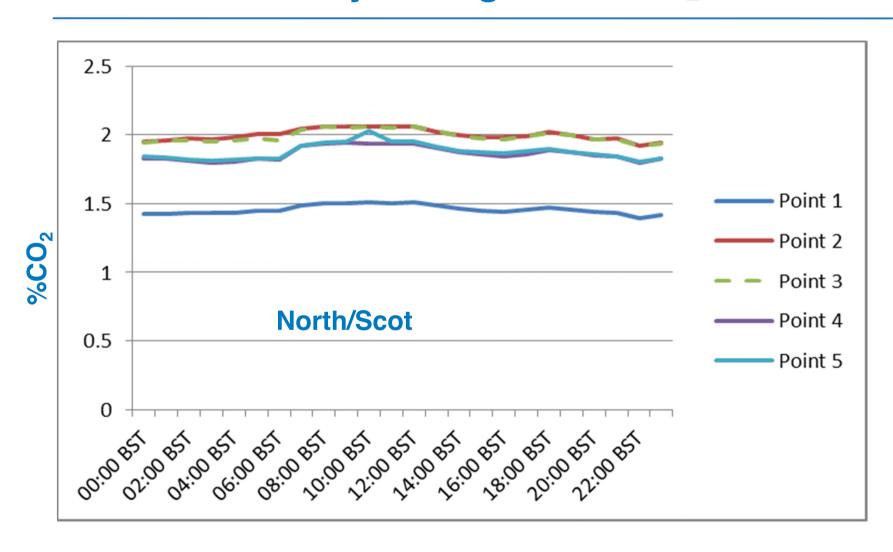
Daily average  $CO_2$  for 12 months (Sept 13 to Aug 14) Average over 12 months for all spot locations = 1.41%

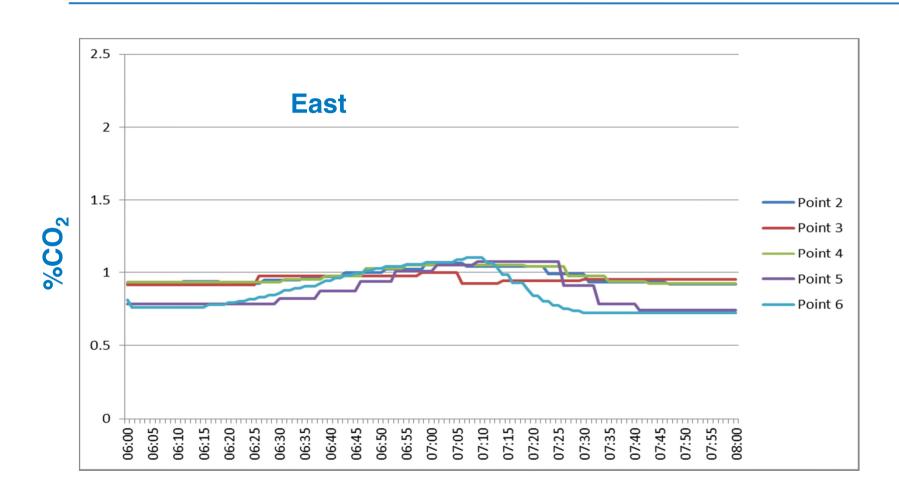


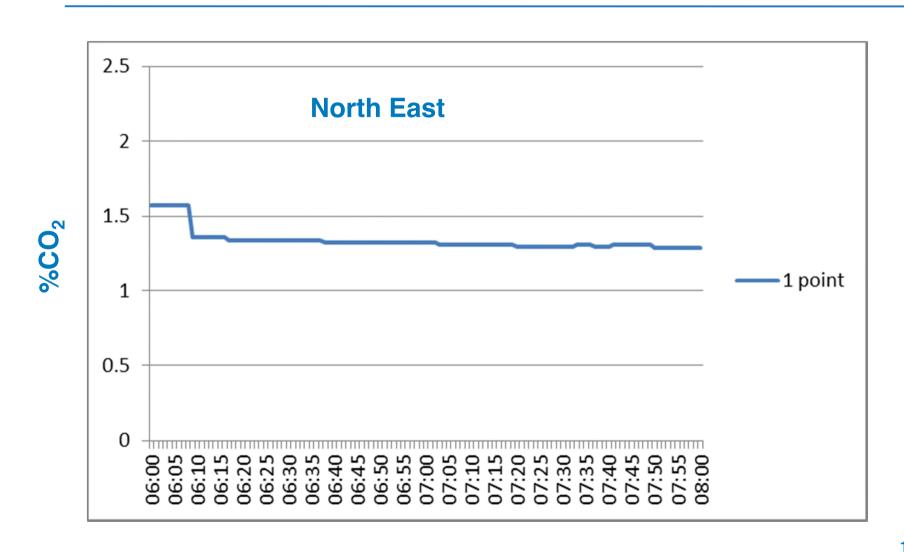


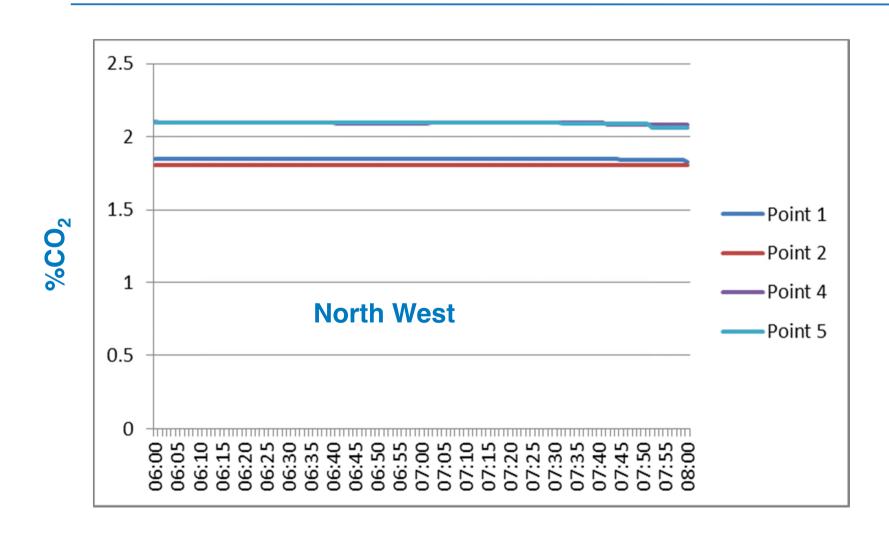


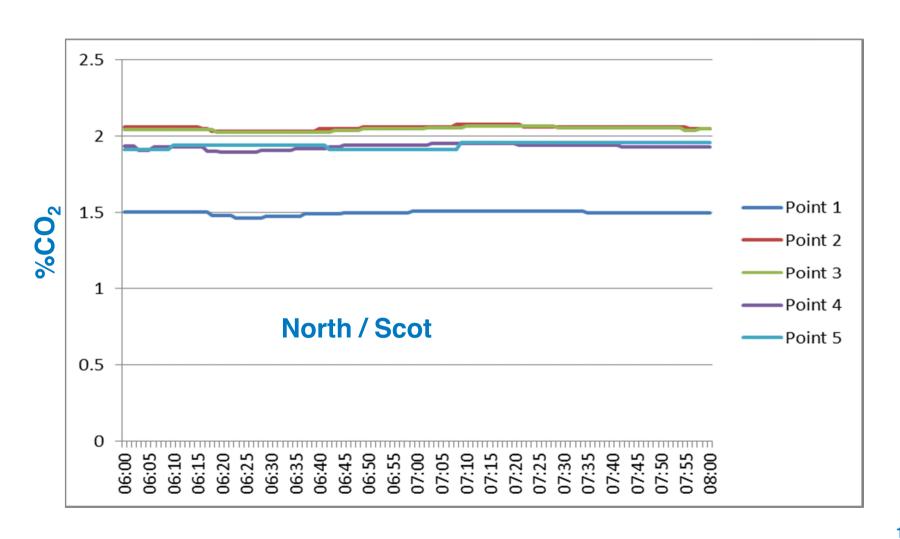












## Action 803a UNCORM data dictionary – Daily CV

nationalgrid

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/

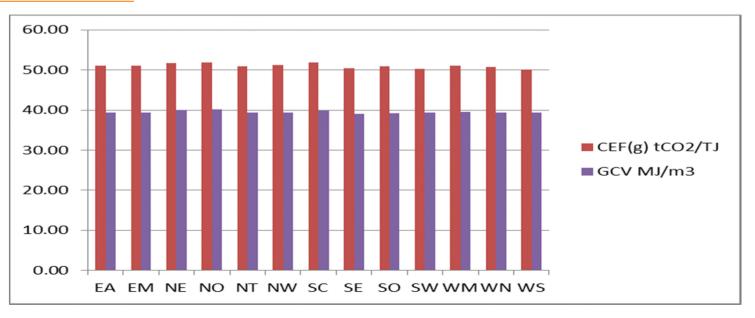
# Action 901 Data request to sub – terminals (co2, cv, wobbe)

Sub Terminal	Response (as at 24 <sup>th</sup> 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 Langeled	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 <sup>th</sup> August presentation		
Teesside PX	See 7 <sup>th</sup> August presentation		
Theddlethorpe	Awaiting response		

## Action 902 CO<sub>2</sub> at NTS Compressors

- NG NTS does not as a matter of course measure CO<sub>2</sub> 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



## **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