

Change of Gas Day – Updated Assessment of Impacts/Areas for Further Consideration

Sub-Area	Current state	Ideal Future State	Target as at Gas Day Change (current expected date 01/10/2015)	Transition Considerations
Weather Data	Weather data received for "Odd" Hours: Temp – 2-hourly: 07:00; 09:00; 11:00 etc Wind 4-hourly: 07:00; 11:00; 15:00 etc	<ul style="list-style-type: none"> Weather data would still be received for "Odd" Hours, as per discussion at DESC on 25/03/14 – accommodates clock changes better 	<ul style="list-style-type: none"> No change to timing of weather observations – still obtained on the "odd" hours Gas Day will use 5am to 3am observations (within-day weightings unchanged) as per 30/07/14 DESC – subject to agreement of Transporters and weather providers 	<ul style="list-style-type: none"> Within-day temperature weightings reviewed at 30/07/14 DESC – confirmed still reasonable – <u>see Appendix 1 for worked example</u> WSSM data is hourly, so future-proof
Sample data	06:00-05:59 data received from dataloggers and AMR devices Hourly data currently available for AMR only, could be used to estimate NDM usage from 05:00-05:59, to adjust historic 06:00-05:59 data	<ul style="list-style-type: none"> 05:00-04:59 data received from dataloggers and AMR devices 	<ul style="list-style-type: none"> Change to 05:00 Gas Day implemented 01/10/2015, at the latest 	<ul style="list-style-type: none"> NDM Datalogger data is gathered using the same process as DM Daily Read data – target changeover is 01/10/2015 – unable to change NDM Dataloggers earlier AMR sample (Bands 1/2) could be switched on a different date – Service Provider recommends phased change from Q2/2015 onwards
NDM Profiles	Created using 06:00-05:59 weather and consumption data	<ul style="list-style-type: none"> Created using 05:00-04:59 consumption data and "odd hours" weather data Weather data within-day weightings re-validated - <i>done</i> 	<p><i>Selected Option for 2015/16 Profiles</i></p> <p>2015/16 profiles created using 06:00-05:59 weather and consumption data up to 31/03/15. Approach agreed at 30/07/14 DESC. <i>See Appendix 2 for details of other options and reason for decision.</i></p> <p>Note: Aggregate NDM Demand will only ever be available in 06:00-05:59 terms up to 30/09/2015. Not an issue post-Project Nexus, but old world DAFs need Agg. NDM Demand</p>	Assessment of the materiality of the 05:00 to 06:00 gas consumption was reviewed at 30/07/14 DESC

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Appendix 1 - Within day temperature and windspeed weightings

Actual temperatures (°C) are recorded every two hours. These two-hourly temperatures are weighted, to calculate the daily actual temperature for a gas day. The date of the gas day is that associated with the start of the gas day. The timings and weightings to be applied before and after the implementation of the change of Gas Day were agreed at DESC on 30/07/4 and are shown below.

<i>Gas Years up to and including 2014/15 - Temperature</i>		<i>Gas Years 2015/16 and onwards - Temperature</i>	
<i>TIME</i>	<i>WEIGHT</i>	<i>TIME</i>	<i>WEIGHT</i>
07:00	0.1	05:00	0.05
09:00	0.1	07:00	0.1
11:00	0.1	09:00	0.1
13:00	0.1	11:00	0.1
15:00	0.1	13:00	0.1
17:00	0.1	15:00	0.1
19:00	0.1	17:00	0.1
21:00	0.1	19:00	0.1
23:00	0.05	21:00	0.1
01:00	0.05	23:00	0.05
03:00	0.05	01:00	0.05
05:00	0.05	03:00	0.05

Wind Speed

Actual windspeeds are recorded every four hours at the times shown below. A daily average windspeed is calculated from the unweighted mean of these four-hourly windspeeds:

<i>Gas Years up to and including 2014/15</i>	<i>Gas Years 2015/16 and onwards</i>
07:00 11:00 15:00 19:00 23:00 03:00	07:00 11:00 15:00 19:00 23:00 03:00

Appendix 2 - Options for 2015/16 Profiles

SELECTED OPTION: A: 2015/16 profiles created using 06:00-05:59 weather and consumption data up to 31/03/15

OPTION B: Manipulate 06:00-05:59 consumption data to represent 05:00-04:59, model against "odd hours" weather data and latest within-day weightings – analysis reviewed at 30/17/14 DESC showed that average consumption in the 05:00 – 06:00 timeslot was sufficiently close to 1/24th of a Gas Day's demand and therefore immaterial.

OPTION C: Use 05:00-04:59 consumption data, model against "odd hours" weather data – this option is not feasible as a full 3-year history of 05:00-04:59 consumption data will never be available