



Workgroup 0631

20th March 2018

Data Use and availability for the NDM Algorithm

- Xoserve received a question from Orsted relating to the review of the NDM Algorithm work under 0631
- Question:

“What actions can be taken to diversify and increase the amount of data used in the NDM model, such as AMR and monthly readings ?”

Demand Model Requirements

- The NDM Algorithm requires parameters which represent daily values of the EUC consumption profile (ALP) and its weather sensitivity (DAF) in order to produce the bottom-up estimate of NDM demand
- Daily consumption data is required to produce demand models which can be used to deliver the most accurate set of parameters for each EUC
- This enables the models to capture the day to day variations in behaviour such as weekends, holidays etc. and reflect the difference in reactions to weather across seasons
- Anything other than daily consumption data would have an adverse effect on the quality of the demand models produced

Current Data Sources

- In the main the current source of daily consumption data is from:
 - The Xoserve managed sample which covers mainly Domestic consumers
 - The Transporter managed sample which covers mainly Non-Domestic consumers
- Sample numbers in both of the above have been decreasing for the past few years due to installation of SMART meters and AMRs by other parties
- UNC Section H allows for Third Party data to be used in the development of demand models. From 2016, the Spring analysis which derives the models has used contributions from one Third party
- Xoserve and DESC have been requesting support in terms of daily data provision for the past few years and will continue to do so
- Following UiG discussions at various forums and a request for data to support Algorithm Performance for Gas Year 2016/17, Xoserve received data from 7 different Shippers and post validation were able to use >10K sites, showing what is possible

Options for Data Sources

- In addition to the regular pleas from DESC, Xoserve are also investigating alternative options for sourcing daily consumption data
- In principle a possible option for the future may be to use the read history from Class 3 sites, however this will take time to create a history and currently the read submissions are very low meaning the theoretical build up of daily data is not materialising
- As the industry head towards seemingly more diverse EUCs the requirement increases for more daily consumption data and so perhaps Section H needs updating to mandate parties to share their data for the good of the industry profiles - i.e. raise a MOD?