



# **XRN5143 – Update on Non-Daily Metered sampling obligations post 31<sup>st</sup> March 2023**

February 2023

# Purpose of DESC Update

- As part of XRN5143, Cadent, WWU & NGN have requested their NDM sampling obligations are provided for by Xoserve as the CDSP, commencing 1<sup>st</sup> April 2023.
- A public procurement is in progress however there is a risk that the procurement exercise may not be successful or complete within the necessary timescales
- This meeting is to clarify the impacts and consider alternative options available to DESC if a break in the continuity of data occurs
- To clarify, SGN is not implicated by this risk

# NDM Sample Data – How is the Data Used?

- CDSP collates the NDM Sample Data from Shippers and Transporters as described in Section H 1.6 in the Uniform Network Code ([link](#))
- This sample data is cleansed and validated before being used in the Modelling Process and Algorithm Performance
- As set out in the Modelling Approach Document and approved by DESC, each MPRN within the Sample must have 12 months worth of continuous actual consumption data that passes all validation
- The analysis period for April 2023 will be 1st April 2022 to 31st March 2023 with a data collection period of 24th March 2022 to 7th April 2023

# NDM Sample Data - Source Proportions

- Transporter procured data has historically been used to enable the CDSP to undertake its calculation of Non-Daily Metered Gas Demand Profiles (ALPs, DAFs, PLFs) in accordance with Demand Estimation Sub Committees Modelling Approach Document
  - further details of which can be found here: [Demand Estimation \(xoserve.com\)](https://www.xoserve.com)
- In 2019 UNC Modification 0654S was implemented – enabling Shippers to send actual daily gas consumption data to the CDSP
- This additional source of data has been used by the CDSP to supplement Transporter procured data, supporting the derivation on Non-Daily Metered Gas Demand Profiles
- UNC Modification 0654S obligations apply to Shippers with a portfolio greater than 25,000 Supply Meter Points
- By the nature of this larger portfolio size, data provided under Modification 0654S arrangements tend to be received from Domestic Shippers – with the majority relating to lower EUC Bands (Bands 01, 02 and 03 respectively)
- The table below shows the split by EUC and provider for the April 2022 modelling – inclusive of all Local Distribution Zone data:

	01BND	01BNI	01BPD	01BPI	02BND	02BNI	02BPI	03B	04B	05B	06B	07B	08B	09B
Transporters	0.27%	3.93%	0.00%	0.00%	20.00%	9.79%	0.00%	31.00%	56.56%	76.39%	87.90%	91.28%	97.44%	97.97%
Shipper	99.73%	96.07%	100.00%	100.00%	80.00%	90.21%	100.00%	69.00%	43.44%	23.61%	12.10%	8.72%	2.56%	2.03%

# Critical Dates for NDM Data

There are two critical dates each year where a complete set of NDM Sample Data is required to be provided by the relevant Transporter for each site in the sample portfolio:

Date	Requirement
7 <sup>th</sup> April 2023 (1-Apr-22 to 31-Mar-23)	End date for collection of data from 2022, creation of annual modelling and associated industry files
1 <sup>st</sup> October 2023 (1-Oct-22 to 30-Sep-23)	Cut-off point for receipt and cleansing of data, required for analysis of algorithm performance in order to check accuracy of models by October
7 <sup>th</sup> April 2024 (1-Apr-23 to 31-Mar-24)	End date for collection of data from 2023, creation of annual modelling and associated industry files
1 <sup>st</sup> October 2024 (1-Oct-23 to 30-Sept-24)	Cut-off point for receipt and cleansing of data, required for analysis of algorithm performance in order to check accuracy of models by October

## key

Able to be performed as planned – no anticipated impacts to Service

At risk of being performed if gap in data continuity occurs

# What will be Impacted if NDM sample data is not available in line with Critical Dates?

- Every day, the CDSP calculate “bottom-up” estimates of gas demand for the Non-Daily Metered (NDM) population. These are sites that aren’t required to submit daily meter readings.
- Key inputs used for this calculation are Annual Quantity (AQ), weather factors and Gas Demand Profiles derived from the Demand Estimation process. (Daily consumption data from the Transporters and Shippers).
- ALP is the Annual Load Profile, which represents the typical gas consumption profile for your EUC.
- DAF is the Daily Adjustment Factor, which reflects the EUC’s sensitivity to weather.
- PLF is the Peak Load Factor which represents an EUC’s weather sensitivity in the event of extreme cold weather scenarios and is needed for Transportation capacity invoicing and planning
- In the event there is a significant break in the data and therefore an inability to produce up to date demand models the accuracy of the 3 key parameters mentioned is likely to be diminished

# DESC Considerations if insufficient NDM Sample Data is available?

- Without sufficient, cleansed and valid Supply Meter Point data, the CDSP will be unable to derive updated Non-Daily Metered Gas Demand Profiles (ALPs, DAFs, PLFs) for impacted EUC Bands within the affected Local Distribution Zones
- If this were to occur, the Demand Estimation Sub Committee would need to determine what actions they would request the CDSP to perform
- Any changes to the Demand Modelling principles will require a decision from DESC
- A period of analysis and testing by the CDSP before implementation would be necessary to ensure DESC determined actions can be deployed appropriately
- Options for consideration in such circumstances may include;
  - EUCs and LDZs impacted in Modelling 2024 re-using 2023 demand models
  - Requesting additional sample data for the impacted EUCs and LDZs is provided by Shippers