



## **Demand Estimation Sub Committee**

### **5.0 DESC Adhoc Workplan Update**

**13<sup>th</sup> December 2022**

# Overview



- An overview of the Demand Estimation process and output can be found [here](#)
- Annual modelling cycle of activities are represented in diagram opposite
- This presentation relates to the 'Model Review' phase the Demand Model cycle

# CDSP / DESC Obligations and Timetable: October 2022 to September 2023

Milestone	UNC H Ref	10/22	11/22	12/22	01/23	02/23	03/23	04/23	05/23	06/23	07/23	08/23	09/23
DESC Membership confirmed	1.12	✓											
NDM Sampling: Data Collection and Validation	1.6	✓						✓					
NDM Algorithm Performance for Gas Year 2021/22	1.8			✓								✓	
DESC Adhoc Workplan	1.7	✓		✓			✓						
DESC Modelling Approach – EUCs and Demand Models	1.7			✓			✓						
Single Year EUC Demand Modelling	1.7								✓				
Model Smoothing and Draft Gas Demand Profiles	1.7									✓			
Industry Consultation	1.8									✓	✓		
Gas Demand Profiles finalised and Core systems updated	1.9											✓	
Climate Change Methodology progressed (SN Review 2025)	1.4			✓			✓		✓		✓		

# Objectives

- To provide an update on the following areas of the DESC Adhoc Workplan, agreed in July ([link](#)):
  - EUC Review:
    - Review of existing End User Category (EUC) definitions
  - Review of Validation Rules:
    - Review of existing cleansing and validation processes/ rules for managing submissions of daily gas consumption data
  - Review of DESC Material:
    - Review of existing meeting material (documents, presentations, charts, tables, statistics etc) shared with DESC and TWG during the year

# EUC Review - Progress update

- Due to the Algorithm Performance review there is no further progress to report at present
- Progress so far was presented to DESC in October and is available [here](#)
- Any proposed changes requiring sign-off will be circulated prior to the 2<sup>nd</sup> March DESC meeting

# Review of Validation Rules

- Due to the workload supporting Algorithm Performance and XRN5143 (Discharge of Cadent, WWU and NGN NDM sampling obligations by the CDSP), there are no updates to report with this item
- Further progress is expected at the March meeting. As a reminder, the following slides provide a recap on the focus areas

# MOD754R Focus Areas

- Utilise Advanced Analytics to enhance our existing validation routines, to help identify suspicious demand patterns in assessing sample MPRs
  - Uncertainty Estimator: UIG Task Force validation suggestions (UIG TF 1328)
  - Individual MPR Regression: Use of computer processing capability to target individual MPRs patterns - regression test Monday to Thursday for each MPR for high level pattern
  - Winter Zero Consumption: Analysis of the number of zero consumption in the winter period, December to March) (i.e. targeting questionable patterns)
- See workgroup material [here](#)

# Next Steps

- Continue the investigation and analysis proposed in MOD754R
- Consecutive Zero Consumption
  - Why is it only for consecutive zeroes?
  - Would a count work better to highlight erroneous data?
- Volume Spikes
  - Can we improve the way volume spikes are identified?
  - How do we classify a spike?
- Incorrect Market Sector Codes
  - How can we identify them?
- Missing Days
  - Why does it differ by site size when the infill method is the same?
- We will share ideas we have on this during the next few DESC meetings but we do welcome your feedback / ideas on this
- Expect to report at the March DESC meeting with any proposed changes / recommendations in place for Spring 2023

# Review of DESC Material - Progress update

- Hopefully you will have noticed an improvement to the published data
- Please let us know if there is anything you would like to see or if there is anything we can do to improve our communications
- This item will be closed, however we will continue to work on improving the data presentation