



Demand Estimation Sub Committee

COVID-19 Winter Impacts – Gas Year 2020/21

24th February 2021

Overview

Background:

- Analysis presented in Strand 3 of NDM Algorithm Performance for Gas Year 2019/20 confirmed there were no COVID-19 impacts for the Domestic EUC "01BND"
- At October's DESC meeting last year Xoserve suggested adding a COVID-19 agenda item on the December and February DESC meetings in order to give DESC the opportunity to discuss any insights observed across the industry. Xoserve confirmed they would monitor the Domestic EUC to identify any potential changes in the consumption trends and levels over the main heating period

Objective:

- To review the consumption trends for the Domestic EUC Bands to see if there are any noticeable changes in behaviour trends post COVID-19 and to seek input from DESC members on any trends they may be observing

Analysis:

- Compare domestic consumption data during COVID-19 and Non-COVID-19 lockdown periods
- Xoserve sample data will be used in the assessment

Note:

- National lockdown started just as we were coming into the Spring/Summer period
- Different LDZs will have different restrictions during different periods

Gas Year 2019/20

Gas Year 2020/21

Gas Year 2021/22

COVID-19 - Domestic Analysis

Analysis Period (observation): 01/10/2019-28/01/2021

We have included the previous winter as it provides a useful comparison to benchmark the observations seen during this winter.

- Before lockdown: 01/10/2019-22/03/2020
- Lockdown 1 (National): 23/03/2020-14/05/2020
- Local Lockdowns: 15/05/2020-04/11/2020
- Lockdown 2 (National): 05/11/2020-02/12/2020
- Tier Lockdown Rules: 03/12/2020-04/01/2021
- Lockdown 3 (National): 05/01/2021-Present (Data illustrated is to 28/01/2021)

Data used in the analysis:

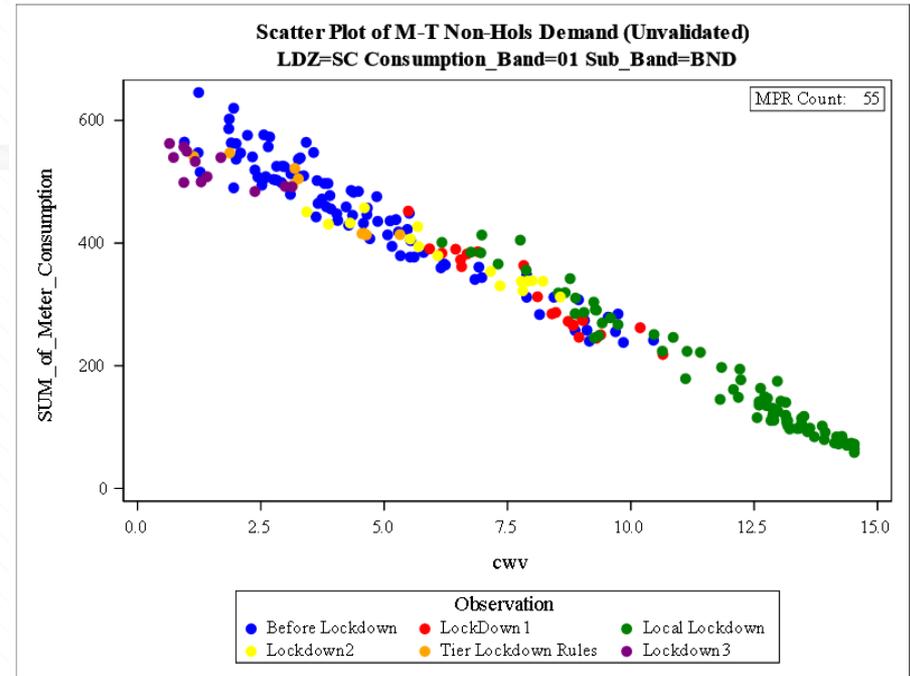
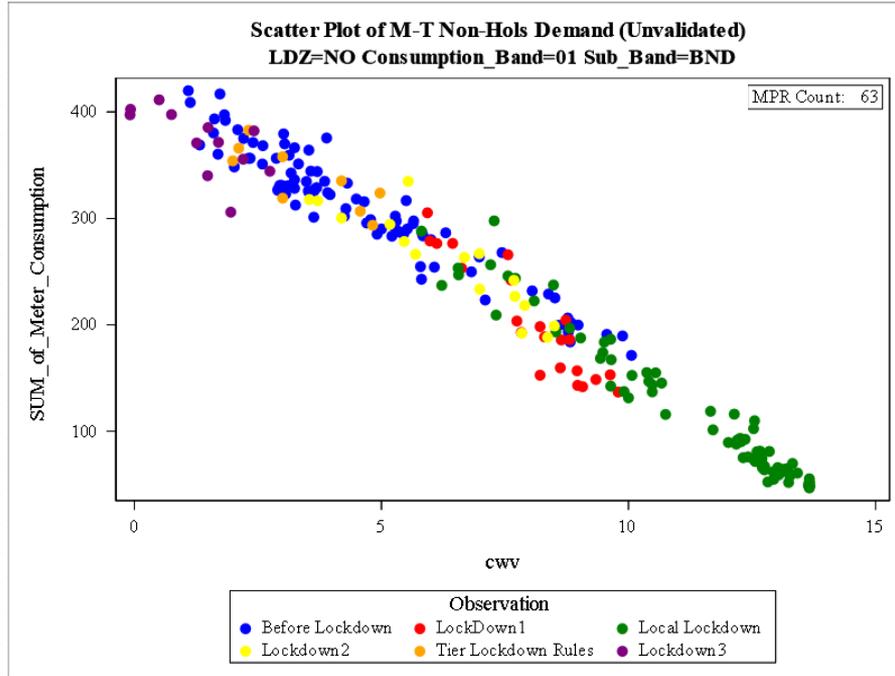
- **Unvalidated** Consumption from Domestic Supply Points in Xoserve Managed Sample (603 sites)
- Meter Consumption is measured in metric (SCMH)
- The CWV – using latest version

Charts:

- 4 LDZs have been selected for the presentation
- These are to provide a visual of the consumption trends for domestic sites and highlight any potential COVID impacts

CWV vs Domestic Consumption (unvalidated)

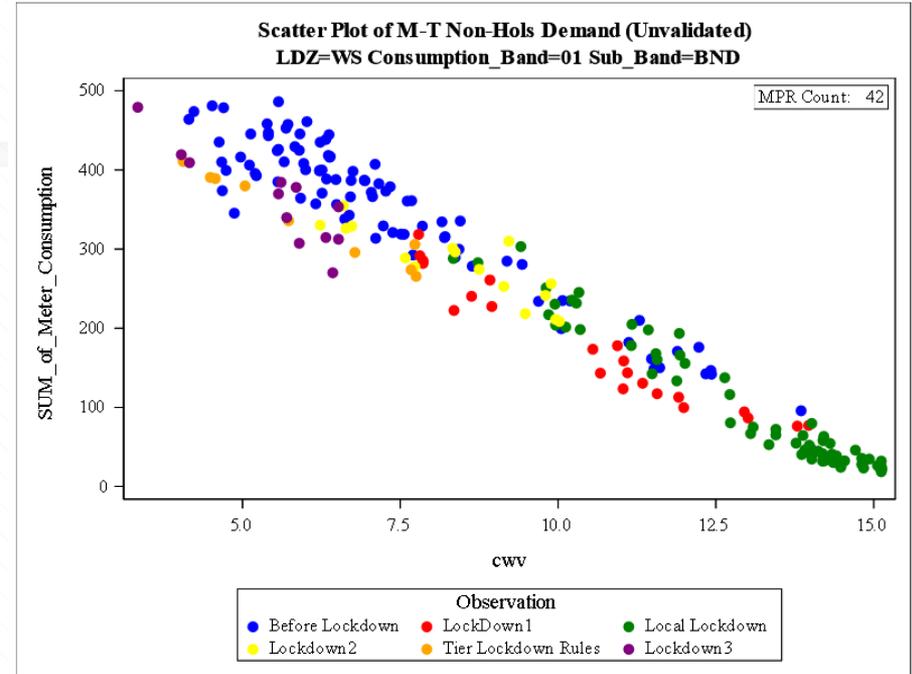
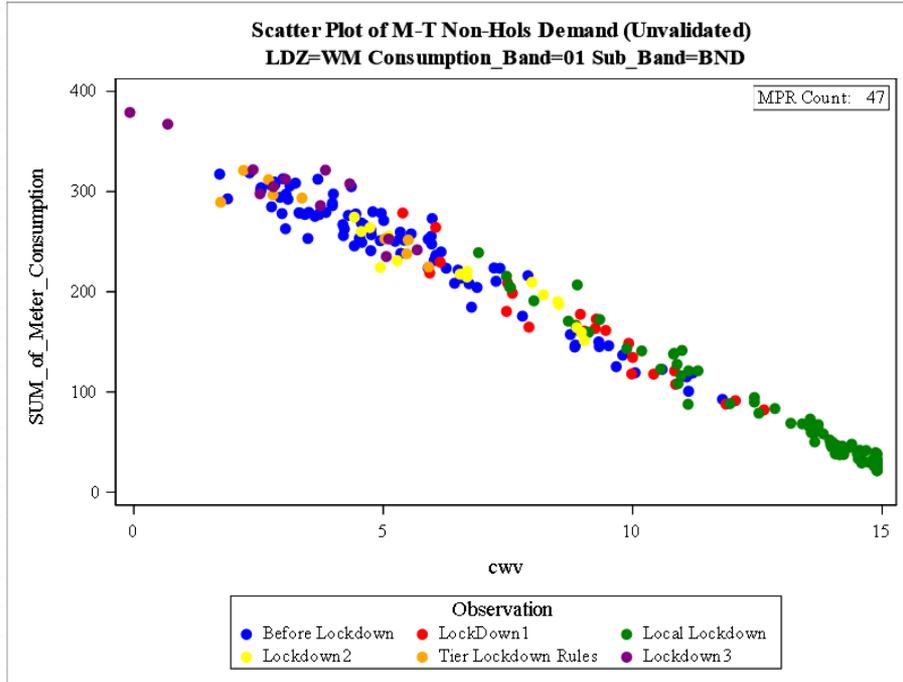
Analysis Period: 01/10/2019-28/01/2021



- No significant COVID impacts observed in Domestic consumption levels for these LDZs

CWV vs Domestic Consumption (unvalidated)

Analysis Period: 01/10/2019-28/01/2021



- No significant COVID impacts observed in Domestic consumption levels for these LDZs

Conclusions

- The up-to-date refreshed results do not indicate any obvious 'step change' in Domestic consumption as a result of COVID-19 restrictions.
 - The result for the 4 LDZs shown here are typical of the results for remaining LDZs
- The analysis presented here covers much of the heating period and so we wouldn't expect to observe any step changes for the remainder of the winter period
- In the Xoserve managed sample we do not have the information to support how gas is used at each property e.g. Home workers, elderly etc
- A more complete assessment will be seen in the Spring when using 'clean' data and will cover the full winter period, when we commence work on collating and validating the sample data required for producing demand models for Gas Year 2021/22

Questions to DESC

- Do DESC members have any insight/views from your data which indicates any changes in Domestic consumption levels?
- Are you expecting AQs to continue to rise for the Domestic EUC ?
- If you observe any change in Domestic consumption behaviour during the winter please share any insight with Xoserve