

Follow up Action from DESC Technical Workgroup (TWG) – 15th May 2018

Ref: EUC Band 02 – Domestic Sites Only (Slides 18 to 23)

The model for the above EUC was discussed. Due to the low number of Domestic Band 2 supply points available for modelling (133 across all LDZs) there was a need to aggregate the demands for these supply points. At the April TWG meeting it was agreed that 2 modelling runs should be done: i) at a national level and ii) as a 2 LDZ Group.

The national level model involves using all demands from all LDZs, whereas the 2 LDZ Group aggregates demands in the following groups:

Northern Group: SC, NO, NW, WN, NE, WM, EM

Southern Group: WS, EA, NT, SE, SO, SW

Based on the results presented at the May TWG it was decided that the **2 LDZ Group** should be taken forward to the model smoothing stage.

Unusual Weekend Effects

The weekend factors for EUC Band 2 were presented on slide 23, and during discussions with TWG it was noted that there was perhaps an unusual Sunday effect for the Southern LDZ Group, where a statistically significant reduction in demand was observed.

As this is a new EUC being proposed where there is little history / knowledge available to know if this is a 'real' effect it was agreed that Xoserve would provide additional information on the demands for these Sundays in the analysis period.

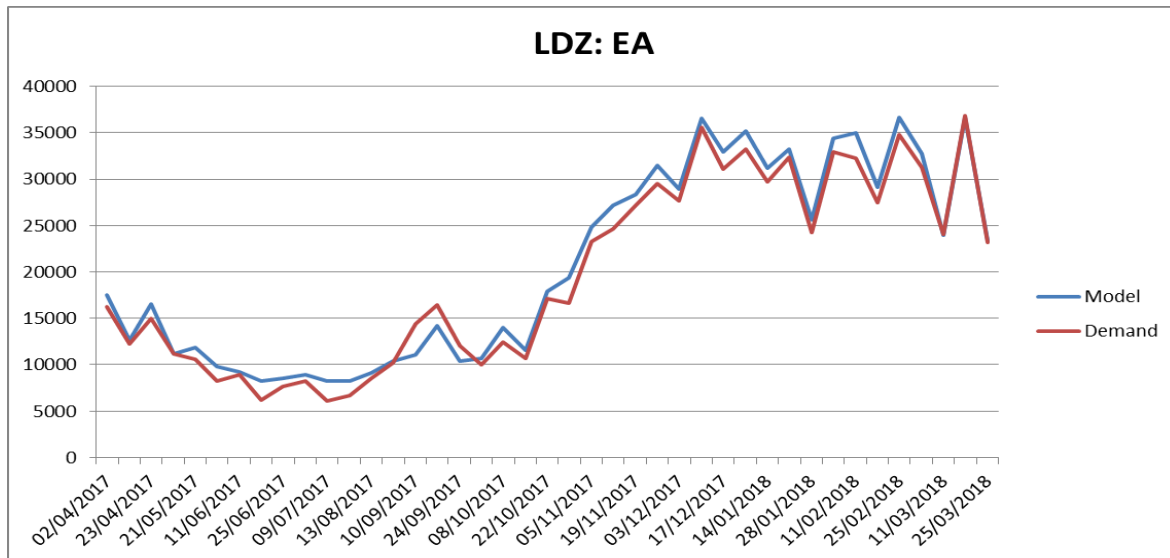
Weekend Factors are calculated by comparing the sum of the actual demand with the sum of the fitted demand for the days in question. In total there are 41 'non-holiday' Sundays in the analysis period of 1st April 2017 to 31st March 2018.

The table below shows how many of the 41 days where the demand is less than the fitted demand across the LDZs.

LDZ	Sunday Factor	No. of days where demand < fitted	% of Sundays where demand < fitted
WS	0.944	34	83%
EA	0.953	36	88%
NT	0.953	36	88%
SE	0.955	36	88%
SO	0.96	32	78%
SW	0.955	33	80%

Note: The Sunday Factor for WS above was incorrectly shown in the presentation on Tuesday (0.994). The correct value is 0.944 and this has been updated and published in version 2.

The chart below is an example of the 41 Sundays with the demands and model for LDZ 'EA'.



Conclusions

Xoserve are satisfied that the Sunday weekend factor is consistently evident in this Southern grouping. In addition to this the EUC modelling system has identified the Sunday factor as being statistically significant.

Recommendation

Retain the Sunday Factors, as presented, for this LDZ grouping and do not re-set the Sunday Factor back to 1.0 as discussed at May TWG.