

CONNECTION POINT FORECASTING IDENTIFIED IMPROVEMENTS

December 2017

PRESENTED BY FORECASTING



Aim:

To highlight items identified for improving transmission connection point (CP) forecasting at AEMO.

Items are categorised into:

- New features
- Methodology enhancements
 - New technology
 - Demand drivers

- Forecast minimum demand at connection points
 - Consider effect of increasing PV penetration in residential and commercial spaces.
 - Consider effect of increasing battery storage penetration.
- Publish CP forecasts (data) on a new interactive website
 - Depart from excel-based dynamic interface.

IMPROVEMENTS – METHODOLOGY ENHANCEMENTS (NEW TECH)



- Include effects of battery storage operation on MD forecasts, at CP level.
- Improve application of rooftop PV forecasts in CP forecasts.
 - Obtaining and using better information on saturation limits, improving spatial allocation of new commercial PV.
 - Making further use of geospatial information available to AEMO.

IMPROVEMENTS – METHODOLOGY ENHANCEMENTS (DEMAND DRIVERS)



- Weather data
 - Test use of other weather metrics (degree days, heat index) for demand-weather relationships.
 - Evaluate reducing length of weather record used for simulation (currently 30 years).
 - Assess whether to incorporate observed warming trends into weather data used for simulation.
 - Consider simulating using sub-daily data.
- Economic variables for improving time trend forecast
 - Cluster CPs for evaluation of common traits.
 - Investigate ways to incorporate economic variables in the forecast, provide forecasts of those variables.
- Demand history
 - Evaluate shortening the demand history (currently 10 years).
- Block Loads
 - Review method for incorporating future block loads.

DISCUSSION

- Questions?
- Are there any additional items to consider?