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| TO | AEMO 2019 Planning and Forecasting Reference Group | CC |  |
| FROM | Ergon Energy Retail | DATE | 20 March 2019 |
| SUBJECT | Inputs, Assumptions and Outputs | | |

This paper outlines Ergon Electricity Queensland’s (EEQ) response to Australian Energy Market Operator’s (AEMO) 2019 Forecasting and Planning Consultation Paper. AEMO has sought views on scenarios, inputs, assumptions and methodologies used in their forecasting and planning work in 2019.

EEQ believes the following suggestions would further improve AEMO’s stakeholder engagement and confidence in the results of the 2019-20 Integrated System Plan (ISP) and 2019 Electricity Statement of Opportunity (ESOO).

For the past several years the National Electricity Forecasting Report (NEFR) / ESOO demand forecast has not provided comprehensive data sets of Distributed Energy Resources (DER) data reporting that would provide meaning and are of comprehensive usefulness.

EEQ recommends that the DER datasets should include:

* Aggregated photovoltaic solar (PV) data values for annual Generation (GWh), aggregated capacity (MW) and aggregated number of installations (both business and residential) for both forecast and historical data;
* PV values at Generation MWh national metering identifier (NMI) and Generation MWh SO (Sent-Out) (this being the amount of generation to meet system demand provided by thermal and renewable plant in the absence of behind the meter PV);
* PV trace data should be on a Generation MWh SO basis;
* Battery forecasts should provide on the same basis as the PV data mentioned above, ie Discharge and Charge annual values on both a Gen SO and NMI MWh basis, Aggregated capacity (MW, MWh Storage size) and number of installations). An attempt should also be made to provide similar historical data values.
* Separate battery charge and discharge traces in a Gen SO basis (not embedded in the gross operating demand traces provided);
* Supplementary electric Vehicle (EV) traces developed (not embedded in the gross operating demand trace) that cover the various charge cycles as previously enunciated by the Integrated System Plan (ISP). These traces should also be on a Gen SO basis.

Large Scale Renewable Traces:

In addition to the renewable region-specific traces currently provided, Large Scale Wind, Solar and Solar Thermal traces should be provided for each existing and committed renewable plant that correspond to 50, 10, and 90 Probability of Exceedance (POE) demand scenarios. In recent years many existing plant such as Ararat and Hornsdale have not been provided even though they have been operating.