# AEMO RELIABILITY FORECASTING METHODOLOGY SUBMISSION 22/5/19

The following comment is made on the various documents on forecasting reliability.

## **Transparency**

The documents provided are adequate to understand the proposed process and its ramifications. An example, showing the extent of the various uncertainties would be a welcome addition. See "Other matters" below.

## **Open process**

The present process is considered adequate. The preparation of a short video could be used to cover a broader audience.

## Accuracy/bias

The assumptions on forced outage rate are reasonable and should be enforced for all generators and batteries to gain a knowledge of the failure rate of all potential technologies on a common basis. A separate study should be commenced to determine the rate of degradation of large solar installations over time. Both of these will provide valuable information on both outages and deterioration of generation facilities over time.

## Methodologies

The methodologies proposed seem adequate for the present with the possibility of improvement with experience over time.

#### Other matters

1 Differing levels of uncertainty

There are now a number of factors that must be considered/estimated at every time interval in the system over time, community demand, demand management activity, likely weather effects with wind/solar, available dispatchable generation/storage; each one with a corresponding level of uncertainty. How extensive are these uncertainties, are they additive or complementary.

## 2 Equivalent study of minimum stable system conditions

This reliability mentions both maximum and minimum conditions. The maximum conditions are bounded by the reliability requirement of 0.002%. The equivalent minimum study would presumably be based upon some form of stability requirement. What is being considered in this area?

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