

DER Register – Application to forecasting

Greg Staib, Linton Corbet
Forecasting
AEMO

Long term forecasting

Use of the DER register's information in forecasting

AEMO is seeking input from the reference group on:

- Additions: Are there any key aspects are missing from the list?
- Expanding the uses: what other avenues should we pursue with the information in the register?

General Uses

1. Verify installed capacity of PV systems in each region. Switch to the DER register as official record of installations if analysis supports the change.
2. Understand the extent to which inverters limit PV panel output by inspecting the metadata of devices (panel) and inverters.
3. Identify connections with storage, and those with storage *and* PV.
4. Verify AEMO's "other non-scheduled generation" list.
5. Verify forecast assumptions around household incentives to purchase PV and a battery, or only PV, or only a battery.
6. Conduct meter data analysis on samples of connections to improve understanding of customer behaviour.

Spatial demand forecasting

Ability to differentiate the impact of DER on the network at a spatial or sub-regional level is becoming increasingly necessary.

1. Analyse DER installation rates, spatially.
 - Map DER to transmission connection points using NMI and TNICODE.
2. Identify locations where DER is more/less prevalent and test various indicators for association with a view to informing future forecasts of DER penetration.
3. Assess connections with DER for which tariffs they are on, in support of minimum demand forecasting analysis and the role of retail tariffs.