

Demand Side Participation

FRG July 2018

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Purpose

Demand side participation (DSP) reflects the capability of demand side resources (customer load reductions or generation from customers' embedded generators) to reduce operational demand at times of high wholesale prices or emerging reliability issues.

The purpose of today's meeting:

- Provide an update on ongoing progress towards utilising the information submitted in DSP Information Portal (DSPIP).

The DSPIP is a National Electricity Rules (NER) mechanism for AEMO to collect DSP information from participants. It consists of a series of self-service web forms for users to provide DSP information.

DSP is an important component that informs AEMO electricity reliability assessments.

Agenda

1. Submission highlights
2. Using DSPIP information
3. Next steps.

Submission highlights

Submission highlights (responses)

Statistic	2017 Survey	2018 Survey
Number of participants responded	16	68
Number of participants responded	6%	26%*
Responses from our 'large players' list	45%	55%
Total Number of National Meter Identifiers (NMI) in Response	2996	3,5 million **
Total NEM DSP response (MW)	207**	?

From this year, it is compulsory for all NEM participants to submit information even if the response is 'NULL'.

* Excludes two in draft status. Total is out of 272 participants in 2018

** Additional NMIs provided offline after encountering submission issues are not included.

*** 207 MW excludes RERT reliability response (March 2018 update of DSP for 2017-18 Summer).

Submission highlights (NMs)

High-level statistics from the DSPIP submissions database:

- 3,5 million NM entries submitted in 2018 to-date, of those **1,6 million are unique**.
 - In 2017, we had 2996 unique NMs.
 - Many NMs expected to be on time of use tariffs (controlled load - hot water)
 - Of the near-3000 unique NMs we had in 2017, **804** are present again in the 2018 submissions.

Using DSPIP Information

Methodology

- It is a probabilistic assessment of short-term demand response at times of high network loading or wholesale price peaks.
 - Classify customers/facilities into groups based on load profile.
 - Determine a baseline level of demand.
 - Perform probabilistic assessment to quantifying DSP.

Latest DSP forecast results (March 2018) are at:

<https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Planning-and-forecasting/Electricity-Forecasting-Insights/2018-Electricity-Forecasting-Insights/Demand-Side-Participation>

Next steps

Next steps

1. Ongoing - working with AER and participants on improving submission compliance.
2. Data cleaning (August-September)
3. Perform analysis (October-November)

