



Generating System Model Guidelines

Stakeholder submissions invited on new rule change request

AEMO has made a rule change request to require generators and network service providers to provide it with additional and more detailed models of generation systems and other equipment.

Access to this more detailed data may enable more effective studies of the power system, supporting more efficient planning and operation.

However, generators and NSPs (network service providers) may face costs to provide these models. Issues may also arise with the commercial sensitivity of the model information being released.

Modelling the power system

AEMO and NSPs study the power system in order to be able to plan and operate it. Participants such as generators also undertake these studies when planning their investments and when negotiating connection agreements. Power system studies use models that are mathematical representations of how a generating unit or particular piece of network equipment works.

Models may differ in their details, complexity and in their cost of development. AEMO advises that historically, simpler, cheaper and less detailed models were sufficient for planning and operational purposes. The kind of modelling information needed was also narrower in scope.

However, AEMO stated that changes in the power system mean that these simpler, narrower scope models are no longer able to support effective power system studies. AEMO therefore argued that it requires more complex and more detailed model information from participants.

The rule change request

AEMO's rule change request would amend the NER to require generators and other parties to provide it with specific kinds of model data.

This includes amending the NER to:

- broaden the scope and increase the level of detail of model data AEMO may request from participants, including generators and network service providers
- increase the depth of model data AEMO may request from parties tendering for the provision of ancillary services.

AEMO considers that these changes will provide a number of benefits, including more effective and efficient:

- generator connection processes
- power system operation
- network planning processes
- procurement of ancillary services.

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Issues for consideration

The rule change request raises a range of issues that are further explained in the consultation paper.

Stakeholders are invited to comment on these issues, which include:

- Whether changes to the NER are required so that AEMO can collect additional data
- The potential costs of compliance with providing additional information to AEMO, and whether generator compliance with any such requirement would be affected if more data needed to be sourced from third parties
- Whether information should be requested only from new entrants or from existing generators
- Whether the requested additional information should be made available to third parties

Submissions

The consultation paper and AEMO's rule change request are available on the AEMC website. Stakeholders are invited to make written submissions in response to issues raised and the rule change request by **12 April 2017**.

For information contact:

AEMC Adviser, **Istvan Szabo** (02) 8296 7813

AEMC Director, **Christiaan Zuur** (02) 8296 7843

Media: Communication Director, Prudence Anderson 0404 821 935 or (02) 8296 7817