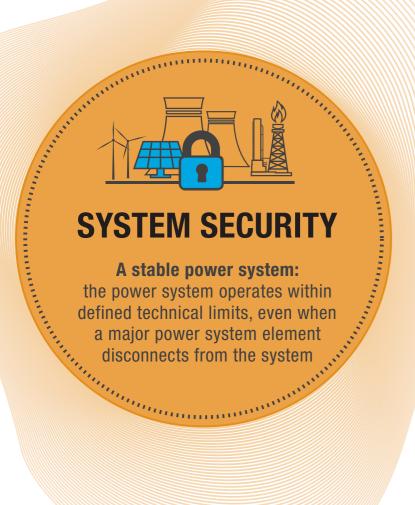
AUSTRALIAN ENERGY MARKET COMMISSION

SYSTEM SECURITY AND RELIABILITY ACTION PLAN 2019

Updated 31 October 2019

Two page infographic summarising system security and reliability work program.



Underway

Frequency control work plan

Working with AEMO and the AER on designing new, coordinated and lowest-cost ways to deliver frequency control services over the medium to longer term.

April 2019 Final report

Reliability Panel review of the frequency operating standard



The standard has been restructured and consolidated to avoid duplication and improve the obligations it places on AEMO to manage the power system frequency.

May 2019 Final determination

Improving intervention compensation and settlement processes rule

Rules to improve administrative processes related to AEMO's interventions in the market, for example the way generators are compensated after a direction to help maintain system security or reliability.

June 2019 Final determination

Reliability Panel assessment of protected event request

Request by AEMO to declare the risk to South Australia's power system from destructive winds as a "protected event"

Aug 2019 Final report

Investigation into intervention mechanisms in the NEM

Evaluating the effectiveness of the interventions framework in light of the increasing use of directions by AEMO to manage system security, and recommending changes to the interventions framework.

Nov 2019 Final report

Reliability Panel Generator compliance template review

Updating the template to incorporate recent changes to generator technical performance standards and improve clarity and usability.

Dec 2019 Draft report

Investigation into minimum system strength and inertia frameworks in the NEM

Evaluating the current frameworks for managing system strength and inertia and recommending any changes needed to reduce the costs of providing ongoing maintenance of power system security.

Dec 2019 Increas Final applica determinations pricing

Increasing consistency in application of intervention s pricing

Creating consistency in the pricing approach used when AEMO activates the RERT or issues a direction, and clarifying when AEMO is to use intervention pricing.

Dec 2019 Final report

Review of system black event in South Australia

Forward-looking assessment of what changes to regulatory frameworks are needed to manage new risks faced by the power system, drawing on what has been learned since the South Australian black system event in 2016.

Dec 2019 Draft determination

Improving the provision of system restart ancillary services

Updating the arrangements under which the services that "jump start" the power grid after a system black are provided, including more rigorous testing processes.

Dec 2019 Draft determination

Addressing the need for primary frequency response rule

Developing mechanisms or arrangements to increase the provision of primary frequency response, to help manage frequency deterioration.



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Underway

AEMC/AEMO/AER virtual power plant trial

Trial to inform changes to regulatory frameworks and operational processes so VPPs can play a bigger role in the energy market. In Australia grid-connected VPPs are focussed on coordinating rooftop PV and battery

April 2019 Final determination

Early implementation of ISP priority projects rule

Streamlining the regulatory processes for key time-critical projects identified in AEMO's Integrated System Plan.

April 2019 Final report

Reliability Panel annual review of market performance

Review of the performance of the national electricity market in terms of security, reliability and safety over 2017-2018.

May 2019 Final

Enhancement to the RERT rule

determination Seeks broad changes to the NEM's emergency reserve - the Reliability and emergency reserve trader framework.

Aug 2019 **Final report**

Definition of unserved energy project



Reliability Panel project to clarify and simplify the definition of unserved energy used in post-event analysis of supply interruptions.

Oct 2019 Final

Transparency of new projects rule

determination Enhancing publically available information about new generation projects, as well as allowing developers of these projects to register with AEMO to get access to key technical information such as network modelling data.

Dec 2019 Final report

Reforms to access arrangements review

Developing draft rule change requests to progress phased reforms to how generators access and use the network.

Dec 2019 Final

Wholesale demand response rule

determination Seeks to introduce a new mechanism to enable more wholesale demand response.

Dec 2019 Final

Demand management incentives for transmission determination businesses rule

Seeks to develop demand management incentives to apply to transmission businesses.

Dec 2019 Consultation paper

Generator registration thresholds rule

Reducing the threshold for registration as a generator from 30 MW to 5 MW.

Dec 2019 Draft

Short term forward market rule

determination Providing an AEMO-operated platform to enable market participants to contract for electricity in the week leading up to dispatch.

Dec 2019 Consultation paper

Integrating energy storage systems in the NEM

Seeks to recognise and define energy storage systems in the rules and provide a framework that supports their participation (and business models where there are a mix of technology types behind a connection point).

Jan 2020 Consultation paper

Transparency of unserved energy calculation rule

Seeks rule to clarify and simplify the definition of unserved energy used in post-event analysis of supply interruptions.

Jan 2020 Final

Changes to medium term reliability forecasting rule

determination Seeks changes to the medium term projected assessment of system adequacy (MT PASA) - a forecasting exercise to assess whether electricity supply is expected to meet demand across a two year horizon.

Pending completion of

Reforms to transmission charging review

access review Developing rule change requests to improve the inter-regional transmission charging regime so that it adequately attributes the cost of interconnectors to those who benefit from them.









