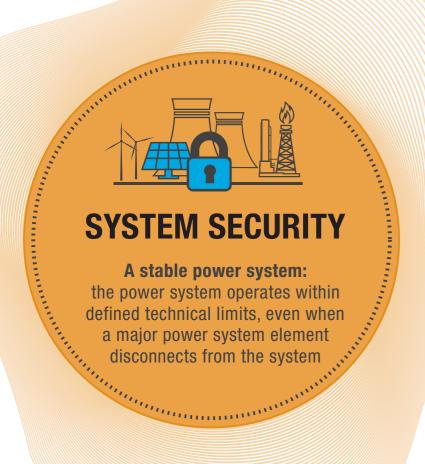
## **AUSTRALIAN ENERGY MARKET COMMISSION**

## **SYSTEM SECURITY AND RELIABILITY ACTION PLAN 2019**

**Updated 19 September 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.

#### Oct 2019 Draft report

# Investigation into minimum system strength and intertia frameworks in the NEM

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

#### Oct 2019 Final determination

# Increasing consistency in application of the emergency interventions framework rule

Improving consistency in the treatment of market participants by applying the regional reference node test to the reliability emergency reserve trader (RERT) when AEMO intervenes to maintain security and reliability.

#### Oct 2019 Impr Final payi determination rule

# Improving arrangements for paying emergency compensation rule

Fine-tuning the arrangements under which compensation is paid to market participants when AEMO intervenes to maintain security and reliability.

#### 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 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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**Updated 19 September 2019** 



#### **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 determination Seeks broad changes to the NEM's

#### **Enhancement to the RERT rule**

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 Concept design

#### **Reforms to access** arrangements review

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

### Oct 2019 Final

#### **Transparency of new** projects rule

determination Seeks to enhance publicly available information about new generation projects, as well as to allow developers of these projects to register with AEMO to get access to key technical information such as network modelling data.

### Oct 2019 Draft

#### 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.

#### Nov 2019 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.

### Nov 2019 Final

#### Wholesale demand response rule

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

#### **Dec 2019** Consultation paper

#### **Generator registration** thresholds rule

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

### **Dec 2019** Final

#### **Demand management** incentives for transmission determination businesses rule

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

#### **Dec 2019** Draft determination

#### **Short term forward** market rule

Providing an AEMO-operated platform to enable market participants to contract for electricity in the week leading up to dispatch, to help enable more demand response.

#### **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).

### Pending access review

#### **Reforms to transmission** completion of charging 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.









