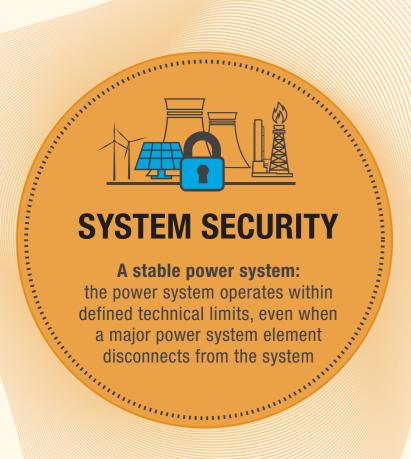
### **AUSTRALIAN ENERGY MARKET COMMISSION**

# SYSTEM SECURITY AND RELIABILITY ACTION PLAN

Updated 19 February 2021

Two page infographic summarising system security and reliability work program.



### Sep 2020 Final determination

## Removal of intervention hierarchy

Provides AEMO with flexible principles to select the intervention mechanism, or combination of mechanisms, that minimise the cost and maximise the effectiveness of an intervention.

### Sep 2020 Final determination

# **Changes to intervention mechanisms**

Removing the mandatory restrictions framework, the obligation on AEMO to counteract during an intervention and clarifies the affected participant compensation cost recovery arrangements.

### Oct 2020 Final determination

## System restart standard review 2020

Reviewing the system restart standard to account for changes made to the types of services AEMO can procure as system restart ancillary services.

### Oct 2020 Final report

# Investigation into system strength frameworks in the NEM

Evaluating the effectiveness of the system strength framework and its ability to effectively and efficiently address system strength issues in the NEM.

### Dec 2020 Final determination

# Compensation following directions for services other than energy and market ancillary services

Improving the administrative efficiency of the process to determine compensation following directions for services other than energy and market ancillary services

### **Underway**

### **Reserve services rule changes**

Working with the ESB, AEMO and the AER to develop arrangements to efficiently value reserves in the NEM so there are sufficient levels and types of reserves available when needed to respond to unexpected changes in supply and demand.

### **Underway**

#### Frequency control rule changes

Working with the ESB, AEMO and the AER on designing new, coordinated and lowest-cost ways to incentivise fast frequency and primary frequency response services to be provided over the medium to longer term.

# Feb 2021 Final determination

# **Technical standards for distributed energy resources**

Addressing technical issues that can arise for the power system as a result of increasing use of distributed energy resources (DER) such as rooftop solar, batteries and electric vehicles.

### Mar 2021 Draft determination

# Synchronous services markets and capacity commitment mechanism for security and reliability

Considering arrangements to procure synchronous services, such as system strength and inertia, informed by the ESB's thinking as part of its Scheduling and ahead mechanisms and Essential system services market development initiatives.

#### Apr 2021 Final determination

## Implementing a general power system risk review

Delivering a process for transparently assessing and identifying emerging risks to power system security.

### April 2021 Draft determination

### Efficient management of system strength

Evolving the system strength frameworks to allow transmission networks to be more proactive in providing services that help keep the power system stable.

# Apr 2021 Draft determination

#### Prioritising arrangements for system security during market suspension

Providing AEMO with appropriate flexibility to prioritise arrangements for system security during a period of market suspension.

### April 2021 Draft determination

### Enhancing operational resilience in relation to indistinct events

Providing AEMO with mechanisms to enhance power system resilience to indistinct events under abnormal conditions.

### Apr 2021 Discussion paper

# Compensation for market participants affected by intervention events

Improving the frameworks relating to the compensation payable to participants affected by an AEMO intervention event.













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Mar 2020 Final determination contracting

### **Victorian jurisdictional** derogation on RERT

Introducing multi-year emergency reserve contracts in Victoria on an interim basis.

Jun 2020 Final

#### Wholesale demand response mechanism

determination Introducing a new mechanism to enable more wholesale demand response for large customers.

**Sep 2020** Interim report review

## **Transmission access reform**



Reflecting stakeholder feedback to ensure the core features of locational marginal pricing and financial transmission rights are fit for purpose for the NEM.

Nov 2020 Final determination

### **Transparency of unserved** energy calculation

Clarifying and simplifying the definition of unserved energy used in post-event analysis of supply interruptions.

**Dec 2020** Market performance updat

#### **Reliability Panel annual review** of market performance

Annual review of the performance of the national electricity market in terms of security, reliability and safety.

**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 focused on coordinating rooftop PV and battery storage.

Mar 2021 Consultation paper

### Reliability Panel review of the reliability standards and settings guidelines

Reviewing the guidelines that set out the principles and assumptions that the Panel will apply when it conducts its next review of the reliability standard and settings.

Apr 2021 Draft determination

### **Integrating energy storage** systems into the NEM

Recognising and defining energy storage systems in the rule and providing a framework that supports their participation and that of business models where there are a mix of technology types behind a connection point.

Apr 2021 Consultation paper

### **Reliability Panel Reliability** standard and settings review

Ensuring the Reliability Standard and settings remain suitable and continue to meet the requirements of the market, market participants and consumers.

Jun 2021 Draft determination

### **Generator registration** thresholds

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





