



# 2026 General Power System Risk Review

This document outlines the proposed approach for AEMO's 2026 General Power System Risk Review (GPSRR).

The GPSRR is an annual review that identifies and assesses priority risks in the National Electricity Market (NEM) that may lead to cascading failures or major supply disruptions.

## About AEMO

As Australia's independent system and market operator and system planner, AEMO's purpose is to ensure secure, reliable, and affordable energy and enable the energy transition for the benefit of all Australians.

We do this by operating the electricity and gas systems and markets of today and planning the energy system of the future.

For more information: [www.aemo.com.au](http://www.aemo.com.au)

## About the GPSRR



Australia's National Electricity Rules require AEMO to conduct a General Power System Risk Review annually that assesses priority risks in the NEM that may lead to cascading failure or major supply disruptions.



AEMO receives inputs on priority risks from Network Service Providers (NSPs), wider industry and the public through its consultation on the GPSRR approach. AEMO also reviews potential risks based on operational experience, recent power system events and anticipated power system changes.



The GPSRR assesses these priority risks under the annual GPSRR process and publishes a report by 31 July each year that outlines the analysis undertaken and makes recommendations for actions to mitigate the priority risks.

## Priority risks for the 2026 GPSRR

AEMO has selected four priority risks for assessment in the 2026 GPSRR, following consultation on the approach paper which was finalised and published on 17 December 2025. The risks are:



### Increasing large load connections.

There is increasing interest in the connection of large loads, which may change how the power system is operated. While this will provide opportunities and benefits to the NEM, risks may arise for large inverter-based loads that are sensitive to voltage disturbances, participate in rapid demand ramping, or introduce forced oscillations into the grid.



### Non-credible system strength risks associated with unavailability of synchronous machines.

System strength risks may be present due to unavailability of synchronous machines through retirement, decommitment, or planned and unplanned outages. AEMO has considered credible system strength requirements post scheduled coal withdrawals and is now considering non-credible impacts.



### Large non-credible generation and network contingency events.

The connection of large amounts of new generation is underway as the energy transition progresses, connecting through new renewable energy zones (REZs), existing transmission lines or via new transmission infrastructure. Non-credible contingency risks may increase if large amounts of generation are reliant on common assets, or concentrated in areas reliant on specific network infrastructure that could fail under rare circumstances, particularly if mitigation measures such as remedial action schemes are not suitable to reduce the risk.



### Voltage control risks.

Recent international incidents have demonstrated how inadequate voltage control can trigger cascading generator disconnections and widespread instability. While the NEM may not be as exposed to the particular mode of failure that was seen in other networks, there may still be potential for voltage control risks to result in similar consequences, particularly during conditions where voltages approach the limits of normal operating ranges.

## GPSRR timeline

- Apr 25 – Aug 25**  
AEMO seeks risk inputs for the GPSRR
- Aug 25 – Sept 25**  
AEMO selects priority risks for assessment
- Oct 25**  
AEMO publishes draft approach paper for consultation
- Oct 25 – Nov 25**  
AEMO consults on proposed assessment and methodology
- Dec 25**  
AEMO publishes final 2026 GPSRR Approach Paper
- Dec 25 – Mar 26**  
AEMO completes assessment of priority risks
- Mar 26 – May 26**  
AEMO prepares draft 2026 GPSRR Report for publication
- May 26 – Jun 26**  
AEMO consults on draft report
- Jul 26**  
AEMO publishes final 2026 GPSRR Report

### For more information

The [2026 GPSRR Approach Paper](#) is available online.

Information on upcoming engagement opportunities can also be found on AEMO's website.