

2022 Electricity Statement of Opportunities (ESOO)

The ESOO provides a reliability outlook for the National Electricity Market (NEM) in the coming decade.

The 2022 report identifies periods when electricity supply won't meet demand, highlighting forecast capacity development needs.

This helps inform the planning and decision-making of market participants, investors and governments to ensure households and businesses continue to have access to reliable, secure and affordable energy.

Reliability impacts

Unavailability of generation or transmission

Generation retirements

Delays in commissioning of new generation, storage and transmission

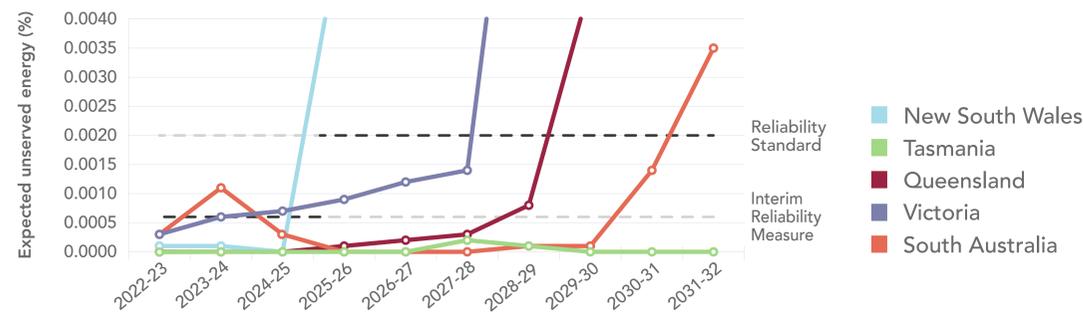
Increasing demand (electrification)

Reliability forecasts (existing and committed projects)

For the period from 2022-23 to 2031-32, reliability gaps are forecast for all mainland regions:

- against the Interim Reliability Measure* (IRM) in South Australia as early as 2023-24 and Victoria in 2024-25
- against the reliability standard in New South Wales from 2025-26, followed by Victoria (2028-29), Queensland (2029-30) and South Australia (2031-32).

Expected unserved energy – central outlook



*The Interim Reliability Measure (IRM) was introduced to reduce the risk of load shedding across the NEM, providing a trigger for the Retailer Reliability Obligation (RRO) of unserved energy (USE) of no more than 0.0006% of energy demanded in a region in any year. The IRM is scheduled to expire in June 2025, after which the reliability standard (USE in each region of no more than 0.002% of energy demanded in any year) will again be used to measure reliability.

Coal retirements (expected)

The NEM will experience its first cluster of coal-generation retirements, five plants totalling 8.3 gigawatts (GW).



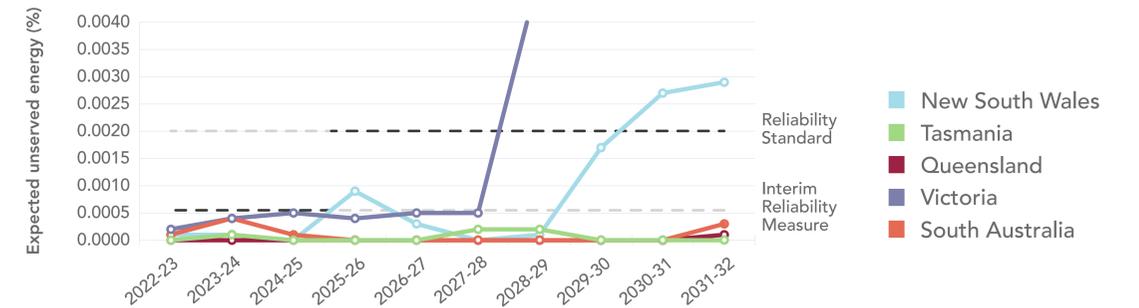
AEMO will continue to work with governments, market bodies, industry and community to manage risks and potential solutions as the power system transitions from coal to firmed renewables, supported by efficient investment in the transmission system.

Anticipated and actionable projects improve the outlook

The 2022 ESOO signals the urgency of progressing generation, storage and transmission developments to maintain a secure, reliable and affordable supply of electricity to homes and businesses.

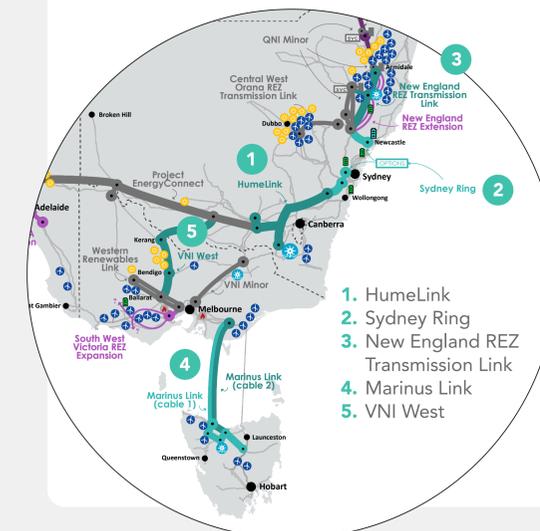
Should the 3.4 GW of currently anticipated generation and storage projects, alongside ISP actionable transmission projects, be delivered to their current schedules, then reliability standards would be met in all regions of the NEM until later in the decade when more large thermal generators exit.

Expected unserved energy – additional anticipated and actionable developments



Actionable ISP projects

Actionable transmission developments identified in the Integrated System Plan are critical to improve the NEM's ability to better utilise existing and future generation.



New generation pipeline as of July 2022 Generation Information



Further reading:

[2022 Integrated System Plan](#)

[NEM Generation Information \(July 2022\)](#)