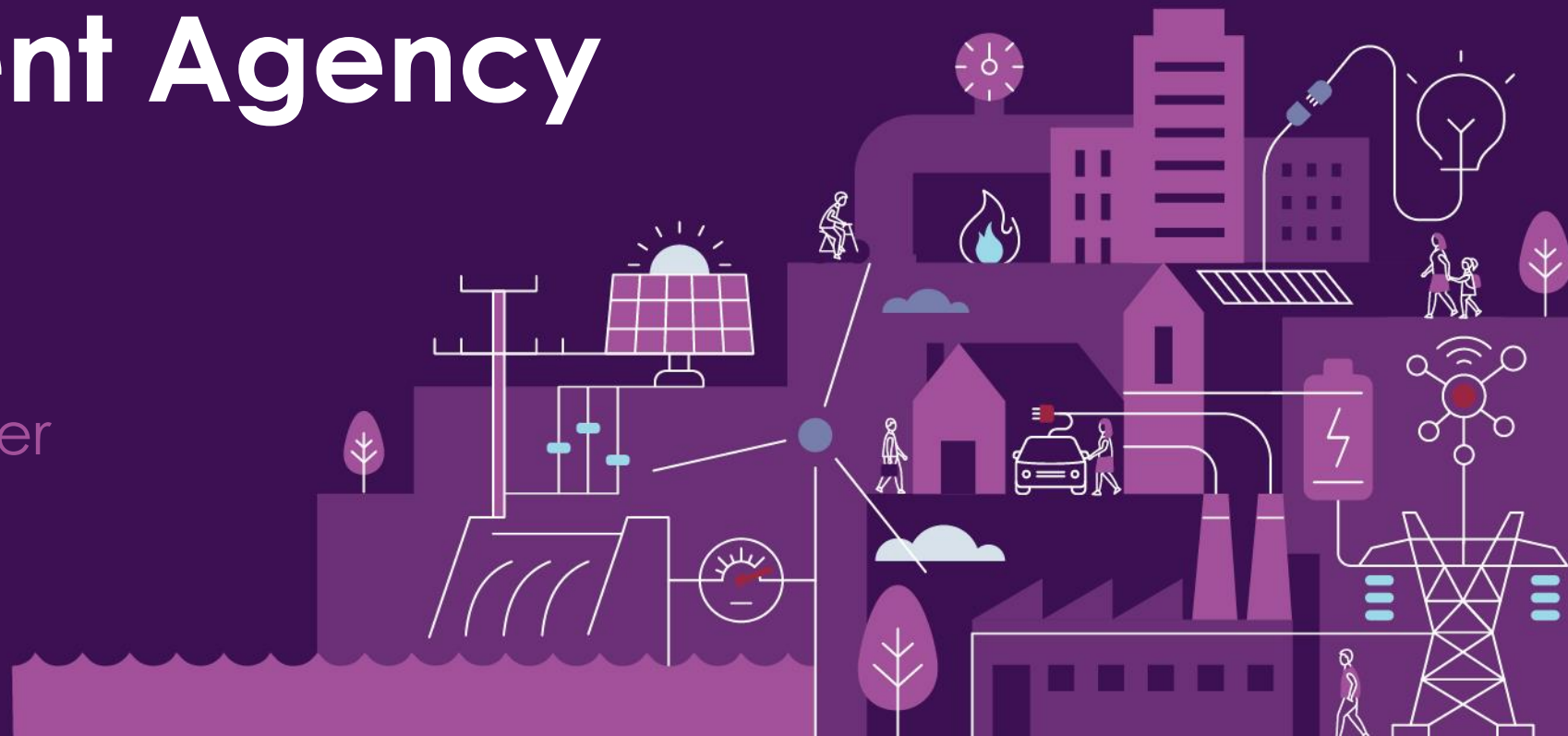


National Emergency Management Agency

Michael Gatt
Chief Operations Officer
17 September 2024

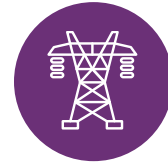


About The Australian Energy Market Operator (AEM)

- AEMO is a member-based, not-for-profit organisation.
- We are the independent energy market and system operator for the National Electricity Market (NEM) and the WA Wholesale Electricity Market (WEM), and system planner for the NEM.
- We also operate retail and wholesale gas markets across south-eastern Australia and Victoria's gas pipeline grid.



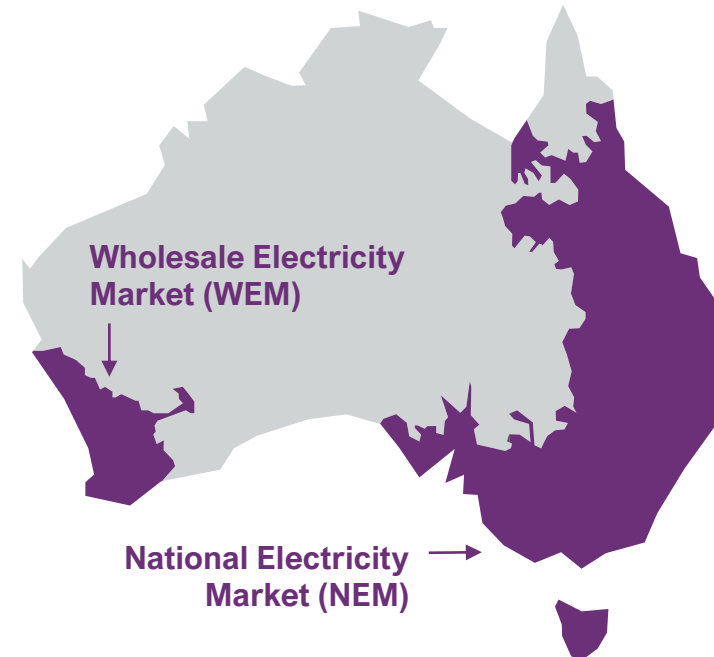
AEMO Services is an independent subsidiary of AEMO, established in 2021 to enable the transparent provision of advisory and energy services to National Electricity Market jurisdictions.



Electricity



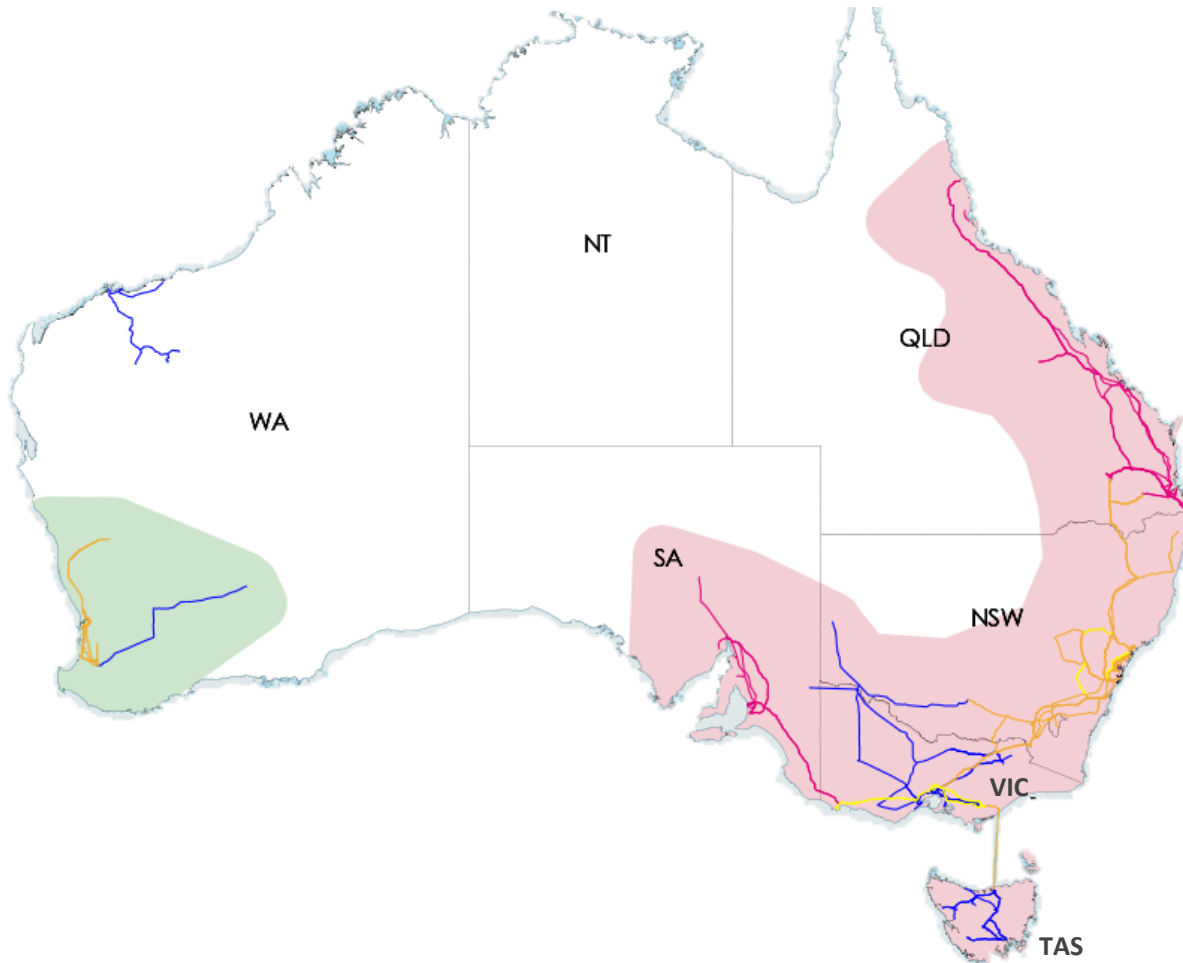
Gas



Declared
Wholesale
Gas Market
(DWGM)

Short Term
Trading
Market
(STTM)
and
Gas Supply
Hub (GSH)

National Electricity Market (NEM)



Population **22.8 million**

NEM Max Demand **35,796 MW**

NEM Min Demand **11,892 MW**

Wind Capacity **10,439 MW**

Solar Capacity **9,481 MW**

Rooftop Solar Capacity **18,356 MW**

Approximately **3 million**
homes have a solar system

Wholesale Electricity Market (WEM)

Population **2.7 million**

WEM Max Demand **4,006 MW**

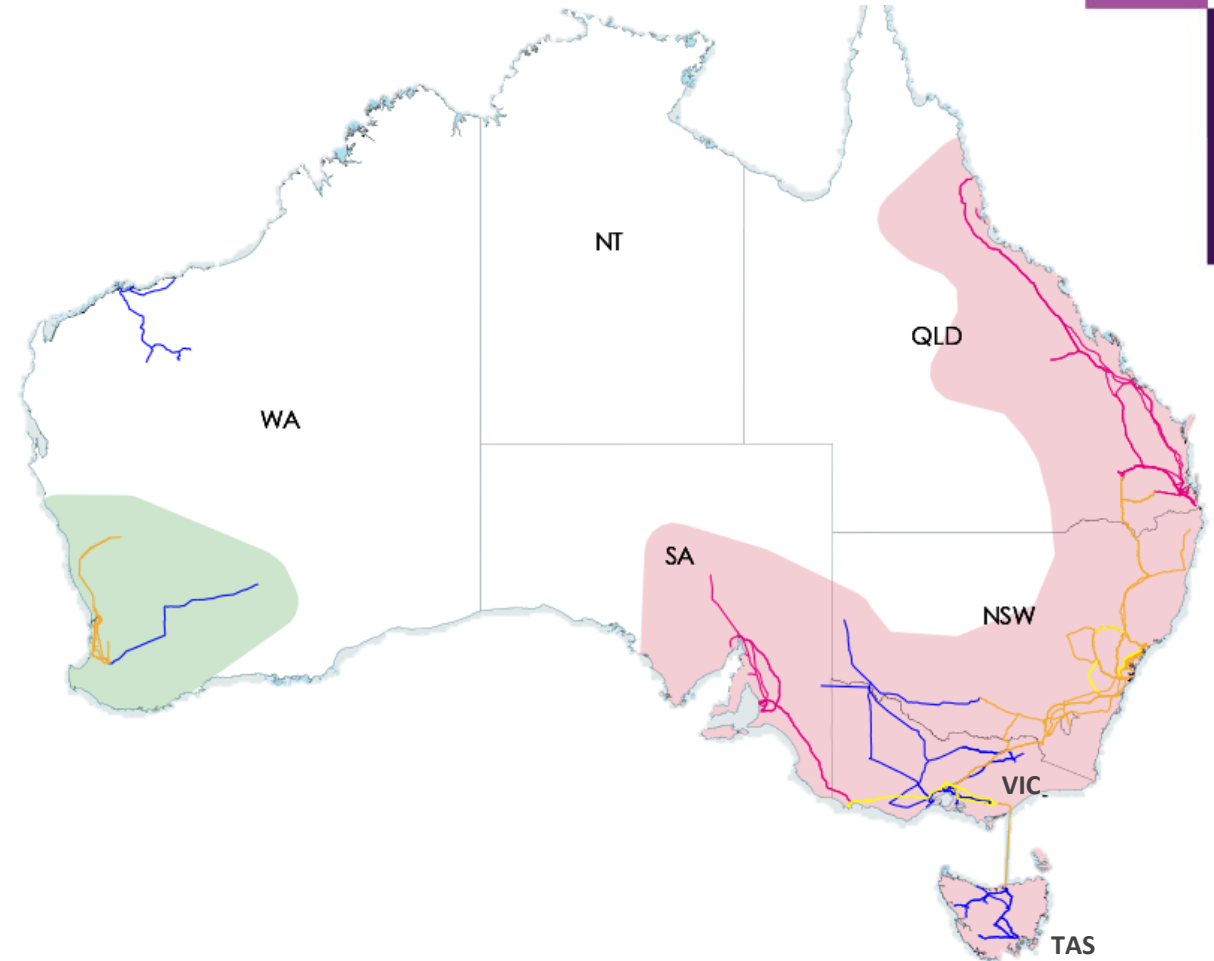
WEM Min Demand **626 MW**

Wind Capacity **1,026 MW**

Solar Capacity **151 MW**

Rooftop Solar Capacity **1,963 MW**

Approximately **9 times** smaller
than the NEM in terms of
demand



Important Terms



Satisfactory

The power system is within the normal operating band.



Secure

The ability of the power system to withstand a credible contingency event and remain in a satisfactory state.



Supply Reliability

The ability to meet demand and reserve requirements.



Credible Contingency Events

Events which are considered reasonably possible.

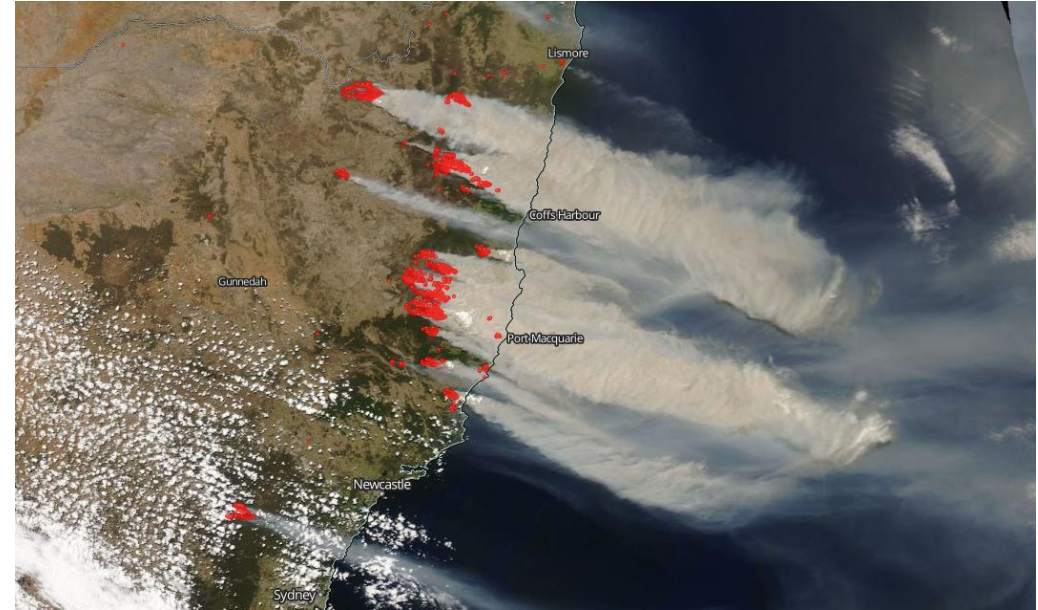


Non Credible Contingency Events

Events other than credible *contingency events*.

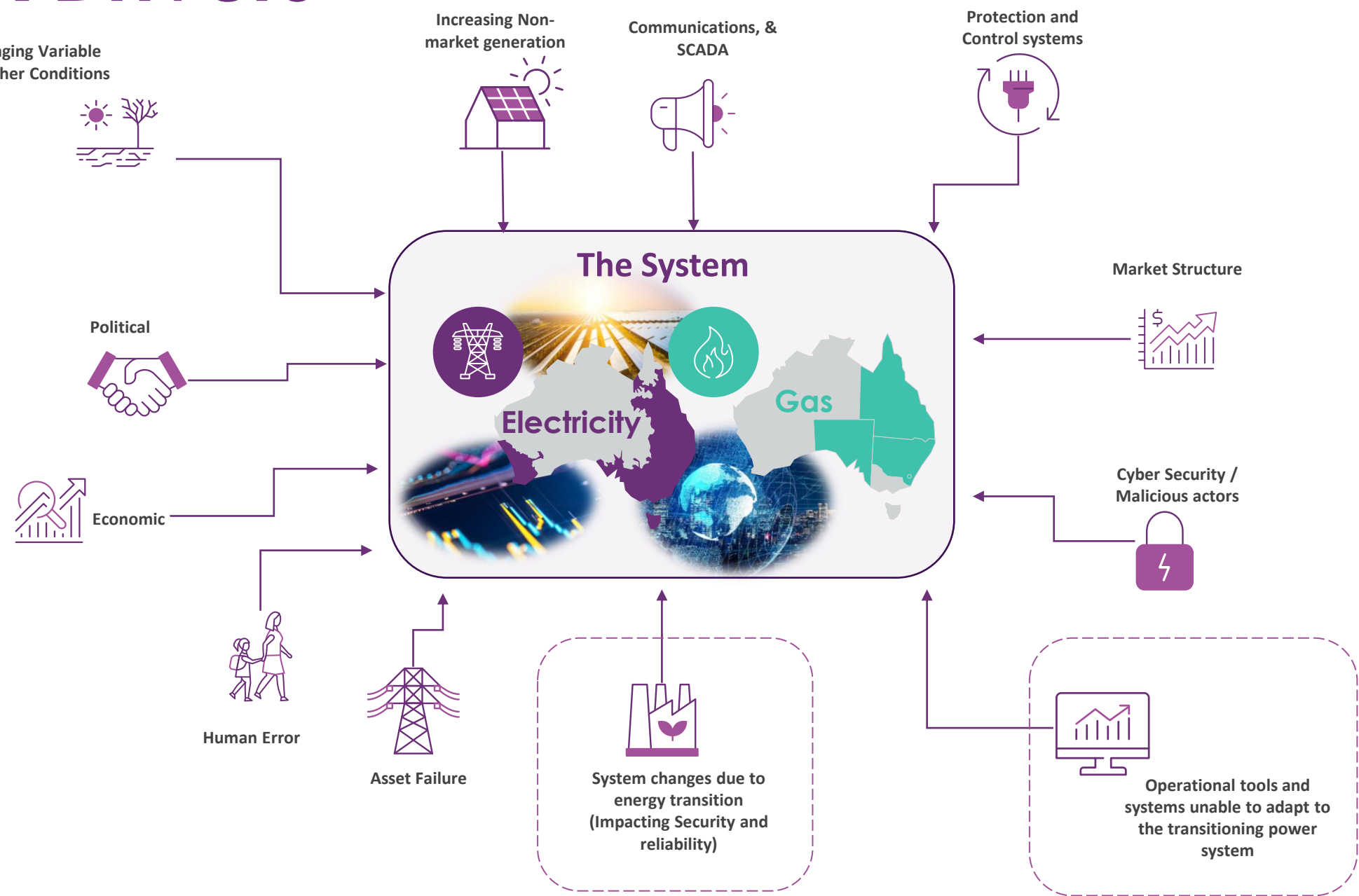
Extreme Weather Impacts

2019/ 20 Summer bushfires saw extensive attenuation of solar farms and rooftop PV output due to smoke

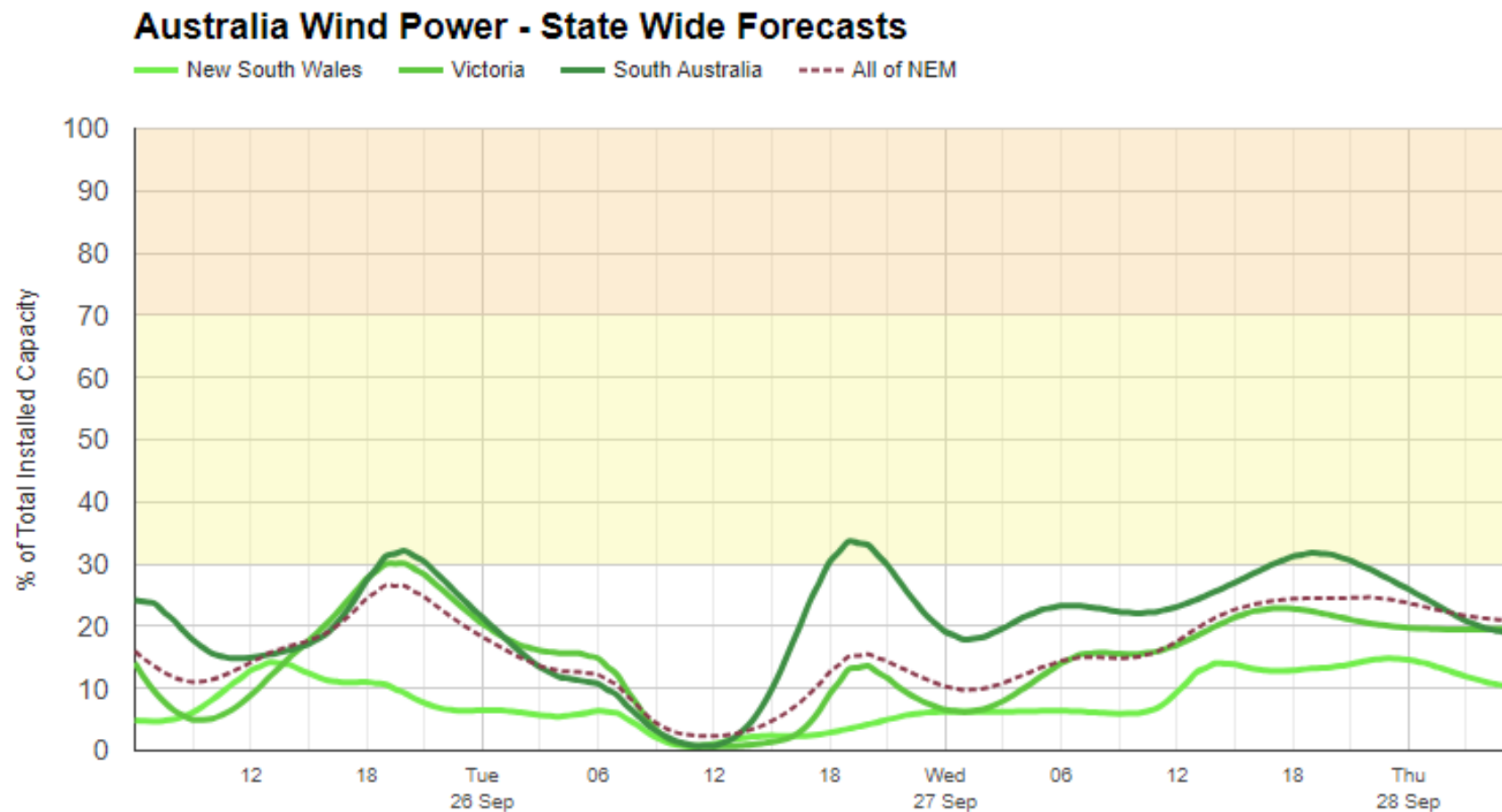


Dust storms can impact on demand as well as distributed and utility scale PV

Risk Drivers

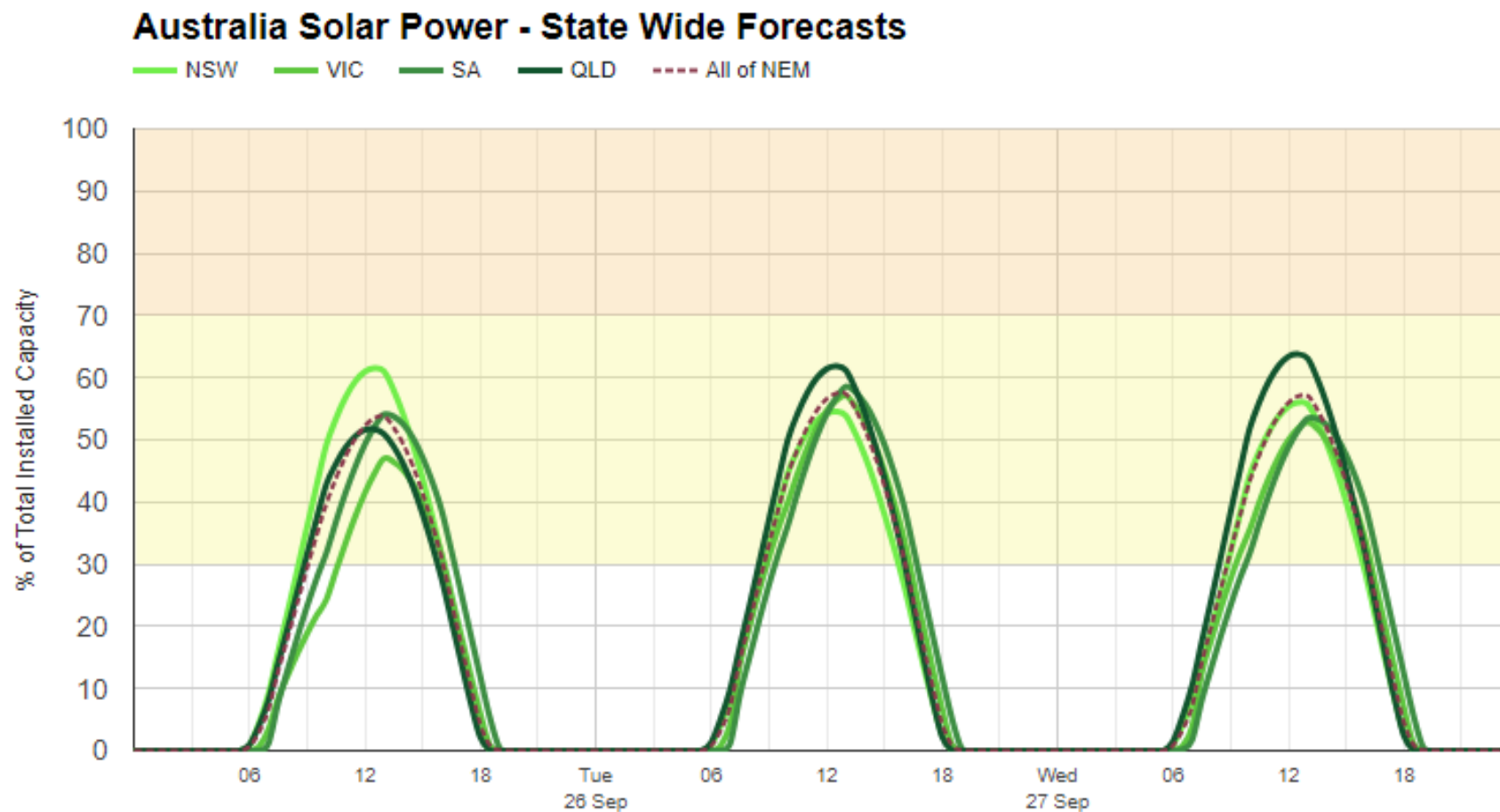


Wind and solar generation forecasts for NEM regions (three-day outlook)



Generated at: 25 Sep 2023 07:00 AEST

Wind and solar generation forecasts for NEM regions (three-day outlook) continue



Generated at: 25 Sep 2023 04:00 AEST



For more information visit

aemo.com.au