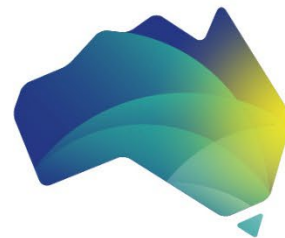




AUSTRALIAN  
**ENERGY**  
COUNCIL



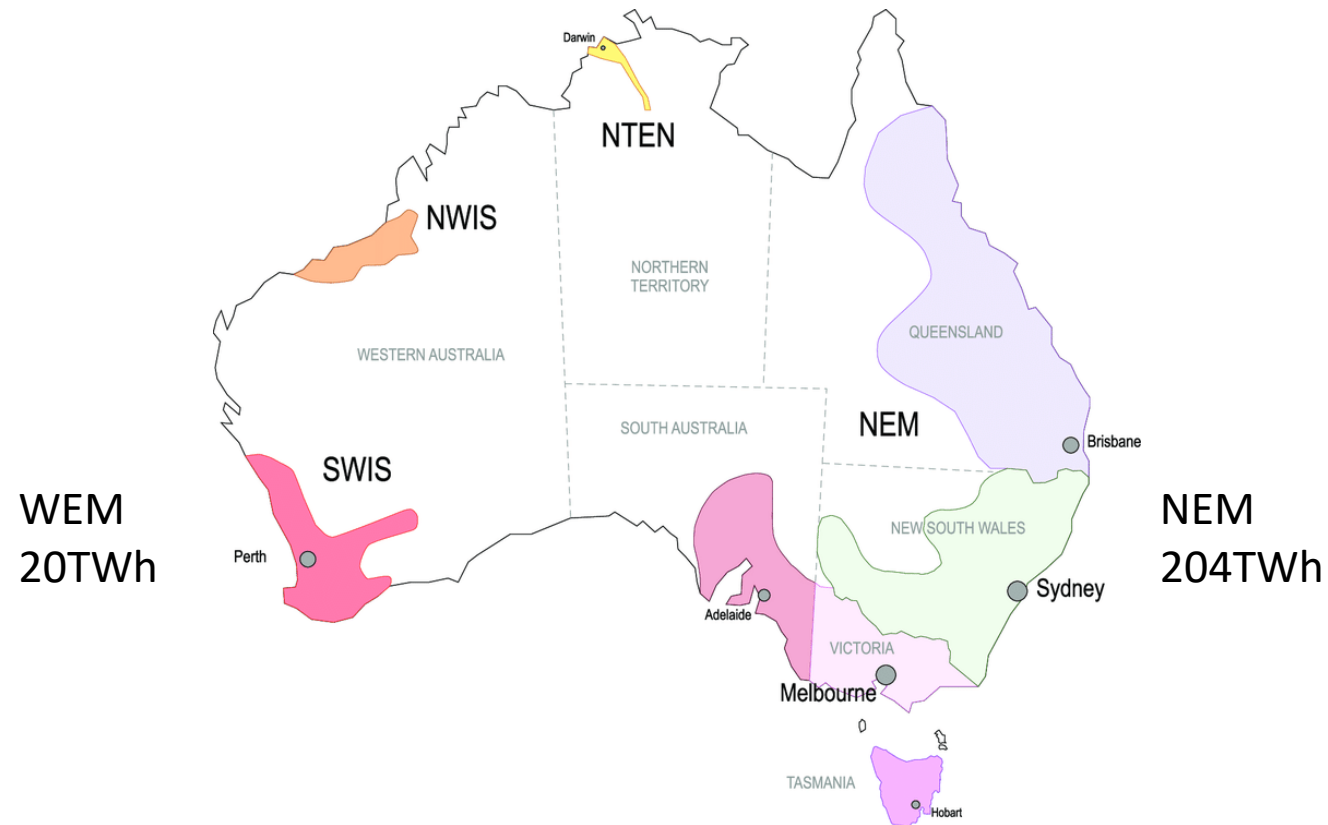
Energy  
Networks  
Australia

# Australia

5 minute summary

International Electricity Summit 2022

# Australia – two main electricity grids



# Renewable energy zones

## Positives:

Lots of wind

Lots of sun

Lots of space

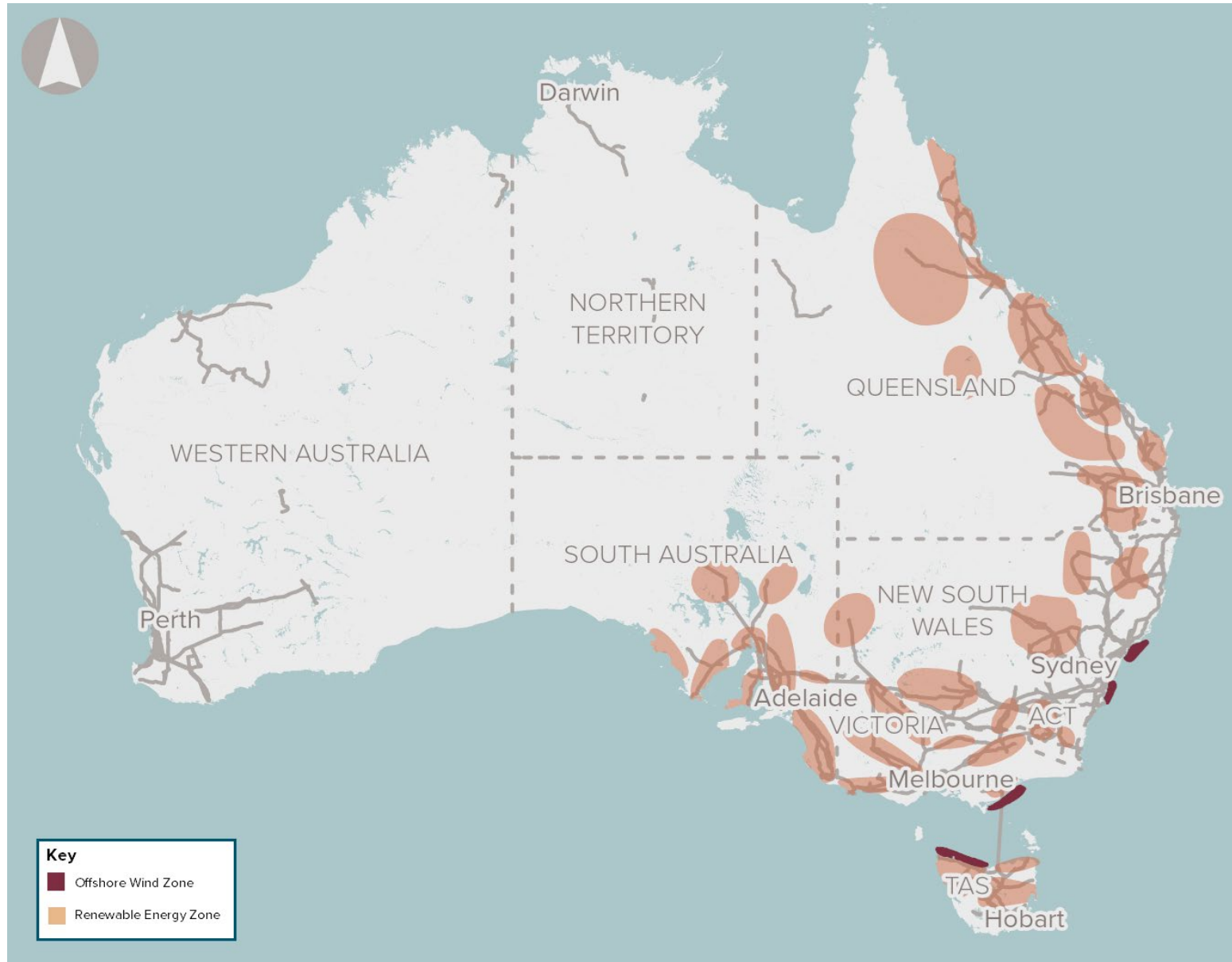
## Negatives:

Long distances

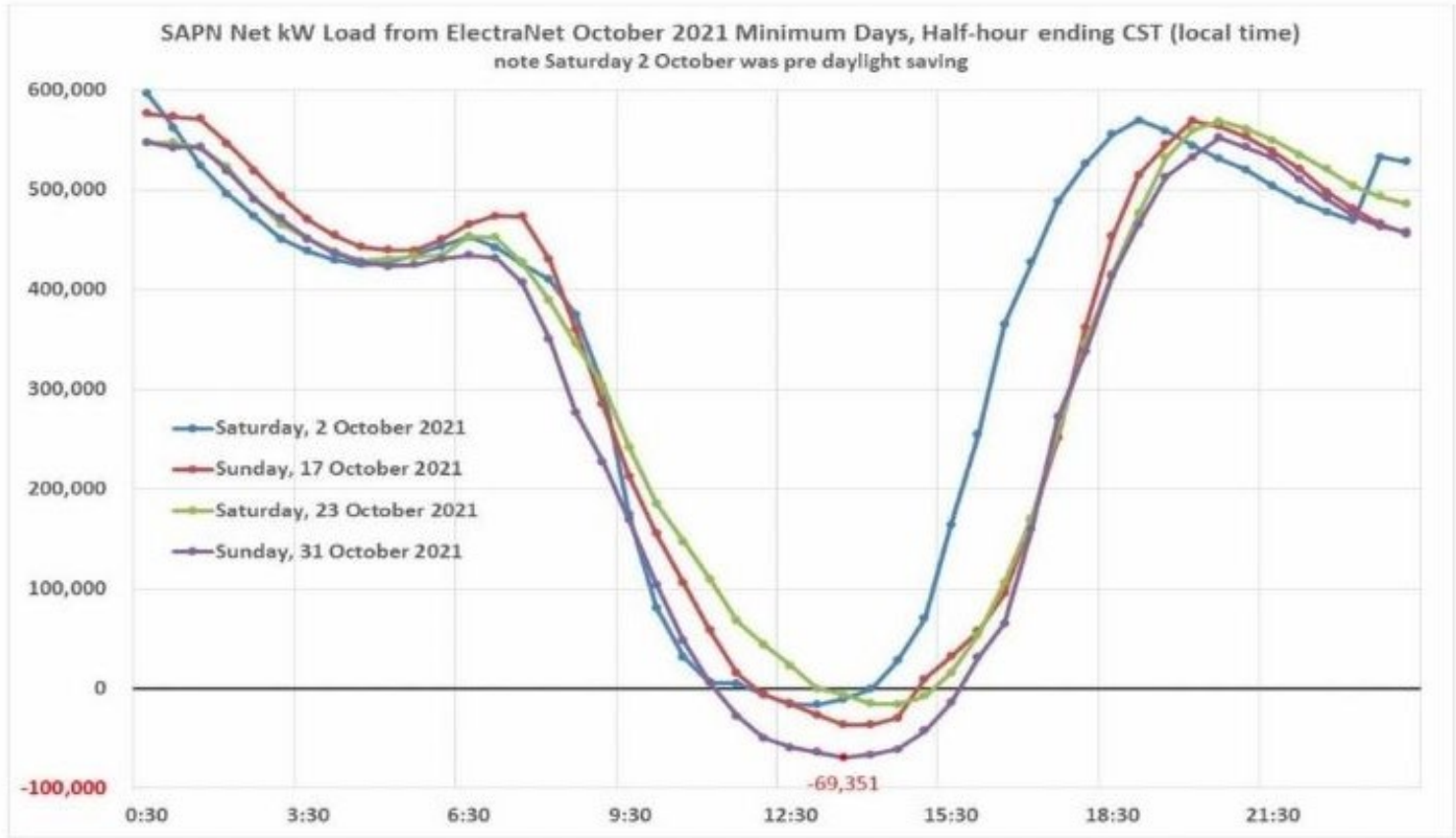
Low utilisation

Isolated

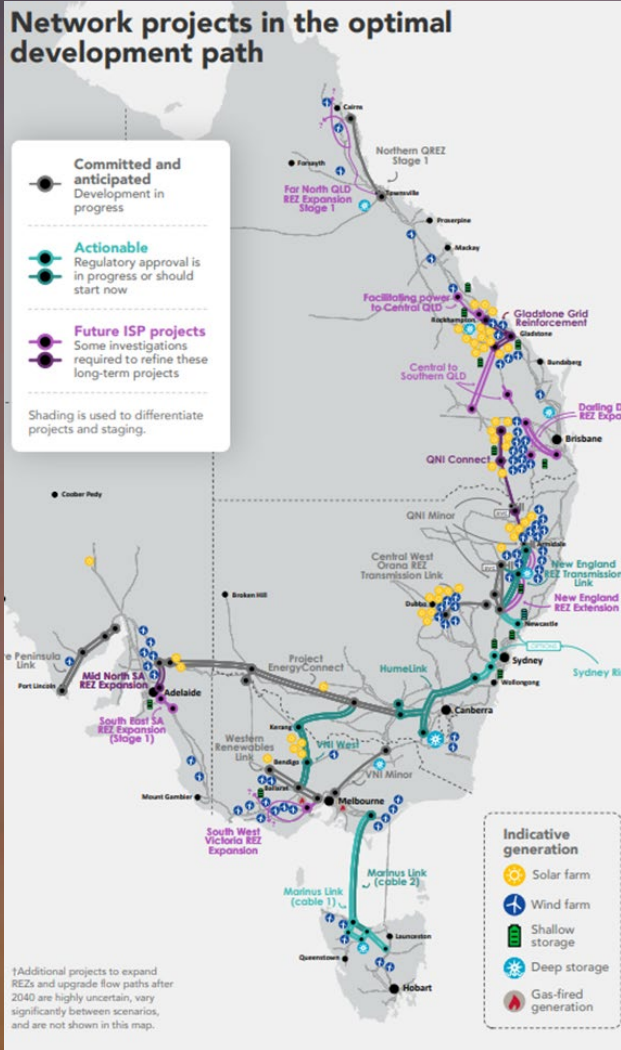
Limited hydro



Rooftop solar  
17GW, 25% of  
households  
and still  
growing



# Constraint: getting transmission build

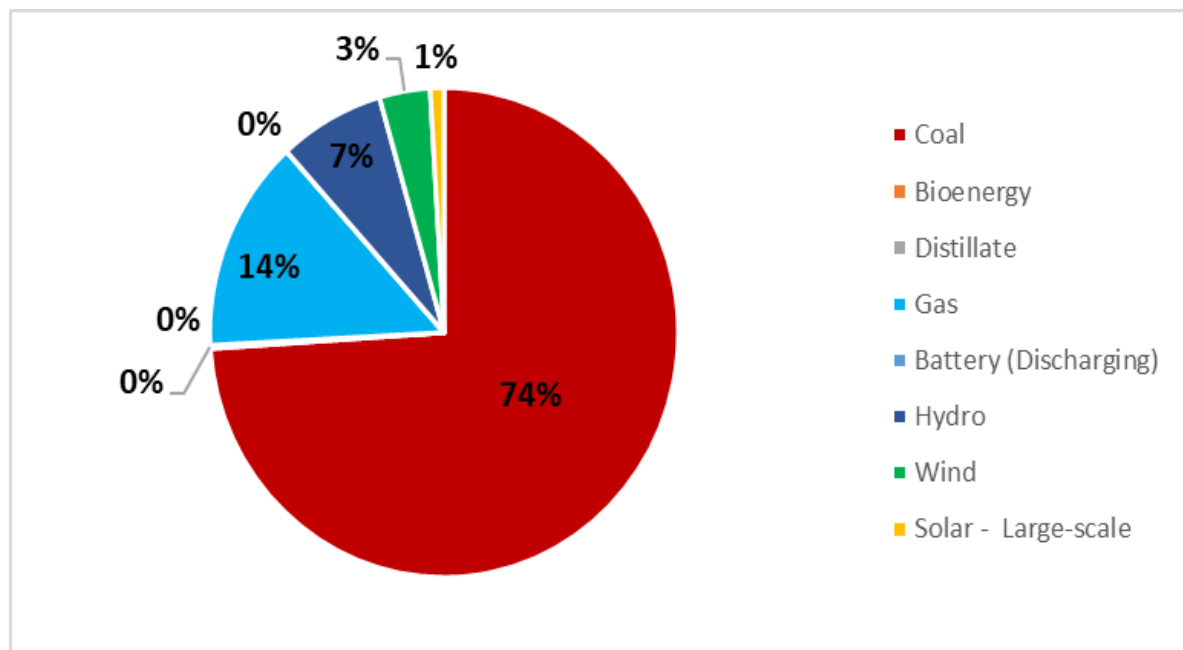


Long distances, constrained supply chains, 30 years since last built

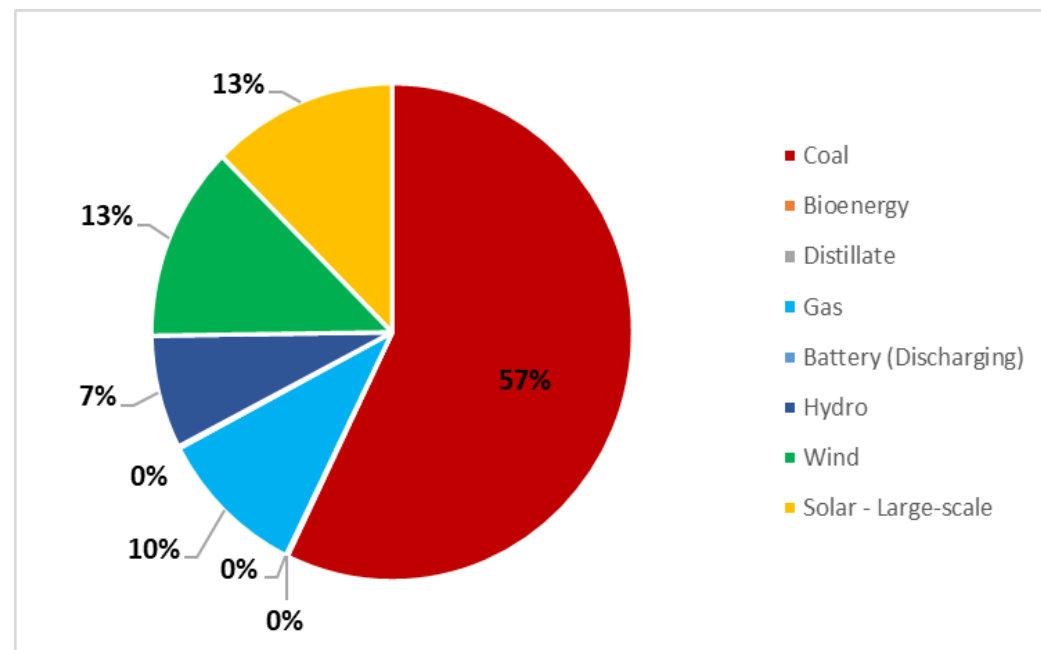


# Changing face of generation mix

2012

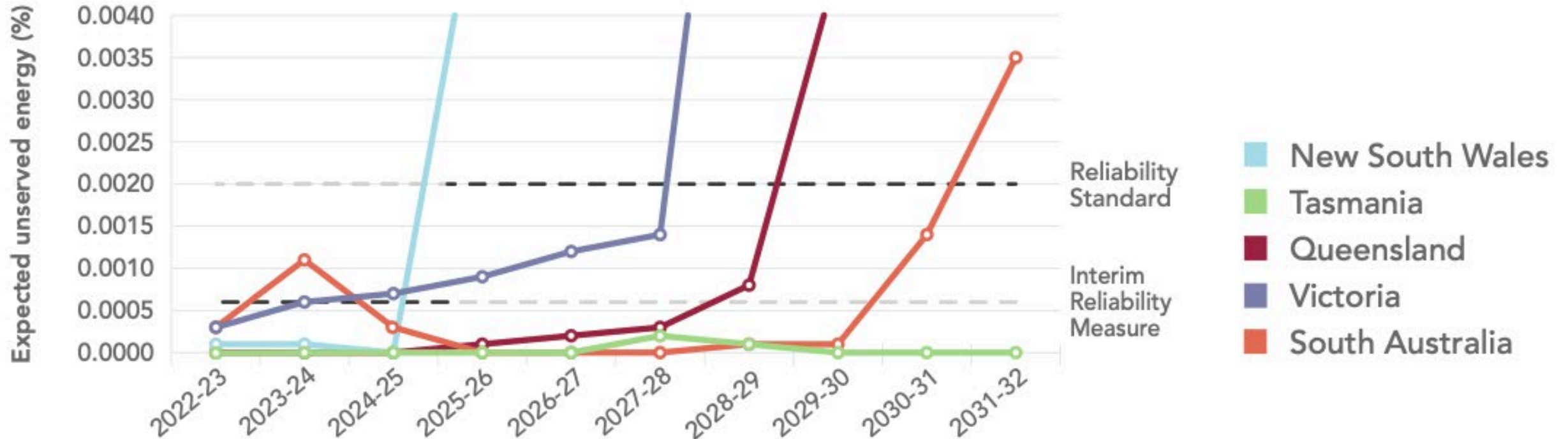


2022 YTD



Rooftop solar – 2012 ~ 644,000 homes 2022 (to June) 3.1 million homes

# Coal is closing faster than replacements can get on line, leading to increased reliability risk



# Electricity sector reforms struggling

- Attempts to introduce capacity payments to shore up reliability opposed by renewable developers
- Each state slowly retreating from national market to local solutions and increased government intervention
- Energy policy debate populist and ideological rather than technical – more rooftop solar PV (popular), governments not supporting critical transmission builds in populated areas (unpopular), governments promote R&D technologies like hydrogen