

# Burrendong Wind Farm

Changing Energy Market

November 2021

Australia needs new sources of electricity and the national energy market is in transition. Clean, renewable sources of energy are being developed to decarbonise the energy system and mitigate the impacts of climate change, while coal-fired power stations are reaching the end of their operational lives and will be retired over the next two decades.

Whole-of-system planning for Australia’s energy transition is managed by the Australian Energy Market Operator (AEMO) through its Integrated System Plan (ISP). The ISP sets out a roadmap for the efficient development of the National Electricity Market (NEM) over the next 20 years with the objective to: *maximise value to end consumers by designing the lowest cost, secure and reliable energy system capable of meeting any emissions trajectory determined by policy makers at an acceptable level of risk.*

AEMO forecasts that Australia requires 26-50 gigawatts (GW) of new grid-scale renewables over the next 20 years and most of that new capacity is expected to come from wind and solar supported by storage. To facilitate the transition governments have set renewable energy targets and AEMO has identified optimal renewable energy zones with high-quality renewable energy resources and proximity to existing or planned network infrastructure.

“ NSW has an enormous opportunity if we act now. The NSW Government has a vision to deliver some of the cheapest, most reliable and cleanest energy in the world. ”

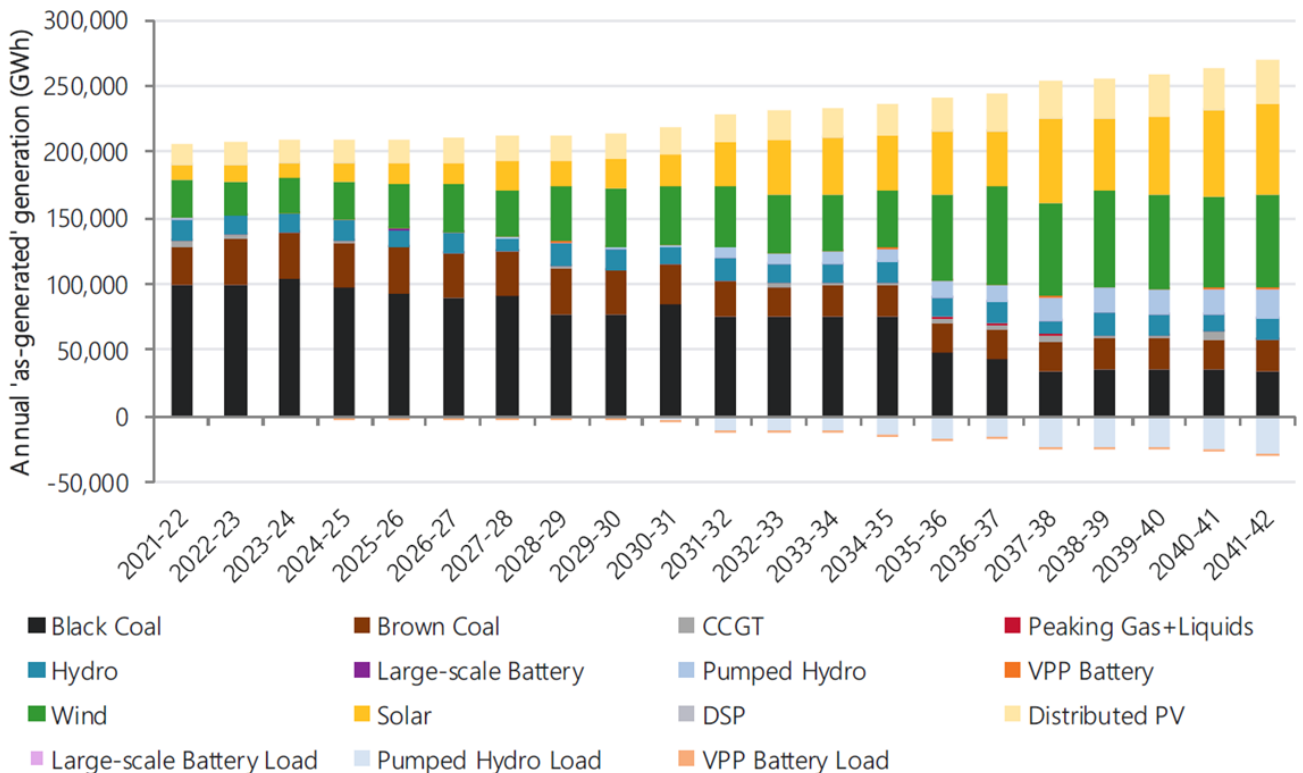
Minister’s foreword  
NSW Electricity Infrastructure Roadmap,  
November 2020

“ We can be a renewable energy super power and as global demand for low carbon products and investments grows, the fortunes of the state are increasingly tied to the fortunes of our planet ”

Media statement, September 2021

The Hon Matt Kean  
Minister for Energy and Environment

Figure 6 Forecast annual generation to 2041-42, Central Scenario



Source: AEMO

The NSW Government has committed to emissions reduction targets of 50% by 2030 and net zero by 2050. Meeting these targets will require harnessing the state's renewable energy potential.

Plans for the state's clean energy transition are articulated in the *Net Zero Plan Stage 1: 2020–2030*, *NSW Electricity Infrastructure Roadmap* and the *Net Zero Industry and Innovation Program*.

The roadmap aims to develop five potential renewable energy zones (REZ) and bring online 12 GW of renewable energy and 2 GW of storage by 2030. REZs are intended to deliver reliable energy supply, reduce wholesale electricity costs, reduce emissions and enable strategic planning and best practice benefit sharing. The NSW Government expects its plans to attract more than \$32 billion in private sector investment and support more than 9,000 jobs over the next 10 years, with the bulk of this in regional parts of the state.

The government announced \$380 million in the state's 2021-22 budget to expedite development of the REZs, including transmission upgrades in the state's first REZ, the Central-West Orana Renewable Energy Zone (CWO REZ).

The CWO REZ, which includes the proposed site for Burrendong Wind Farm (approximate location shown by arrow below), was formally declared in November 2021. It is expected to attract 3 GW of new renewable energy projects and storage capacity, \$5.2 billion in investment and 3,900 construction jobs over the next decade.

Map below: CWO REZ Geographical Area. Source: [energy.nsw.gov.au](http://energy.nsw.gov.au)

## More information

Scan the QR codes for direct access



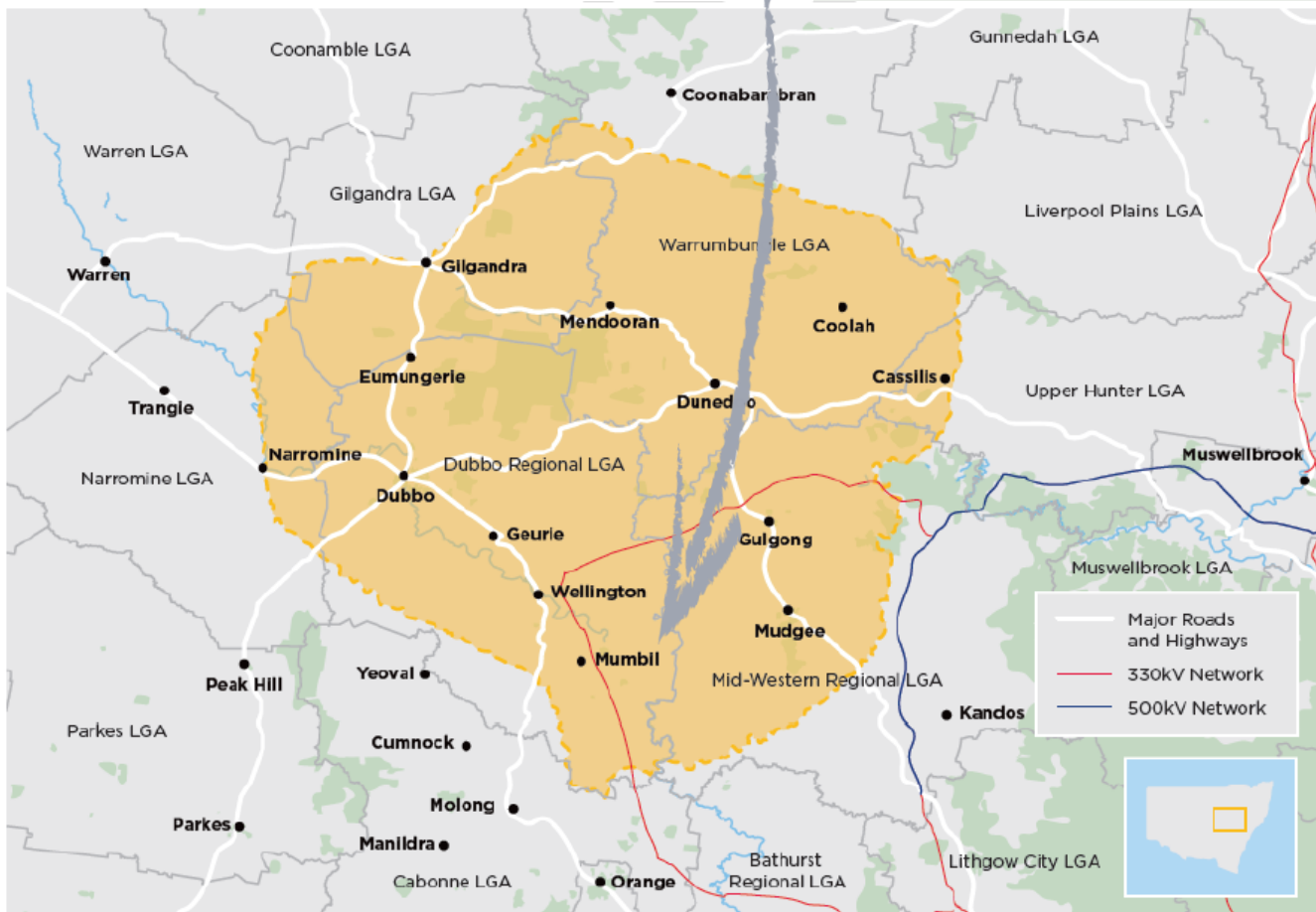
Australian Energy Market Operator - Integrated System Plan  
[aemo.com.au](http://aemo.com.au)



Australian Energy Market Operator - The National Electricity Market Fact Sheet  
[aemo.com.au](http://aemo.com.au)



NSW Renewable Energy Zones, Central-West Orana Renewable Energy Zone  
[energy.nsw.gov.au](http://energy.nsw.gov.au)



For more information about the Burrendong Wind Farm project visit [burrendongwindfarm.com.au](http://burrendongwindfarm.com.au)

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