



# *Large Scale Solar Development*

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*Presented on 26 June 2019 in Armidale to NSW Farmers Association members*

## *Introduction*

- Minister & Department
- Strategic Context
- State Significant Development
- Large-Scale Solar Projects

## • *Minister & Department*

- *Environmental Planning and Assessment Act 1979*
- Minister for Planning & Public Spaces
- Department of Planning, Industry & Environment
- Whole of Government Co-ordination
- Policy, Assessment & Compliance
- Community Participation

## *Strategic Context*

- Major change - energy sector
  - Retirement coal-fired power stations
  - Increase wind & solar development
  - Demand for dispatchable energy
  - Transmission
- Energy trilemma
  - Energy security & reliability
  - Cost
  - Lower emissions

## *Commonwealth*

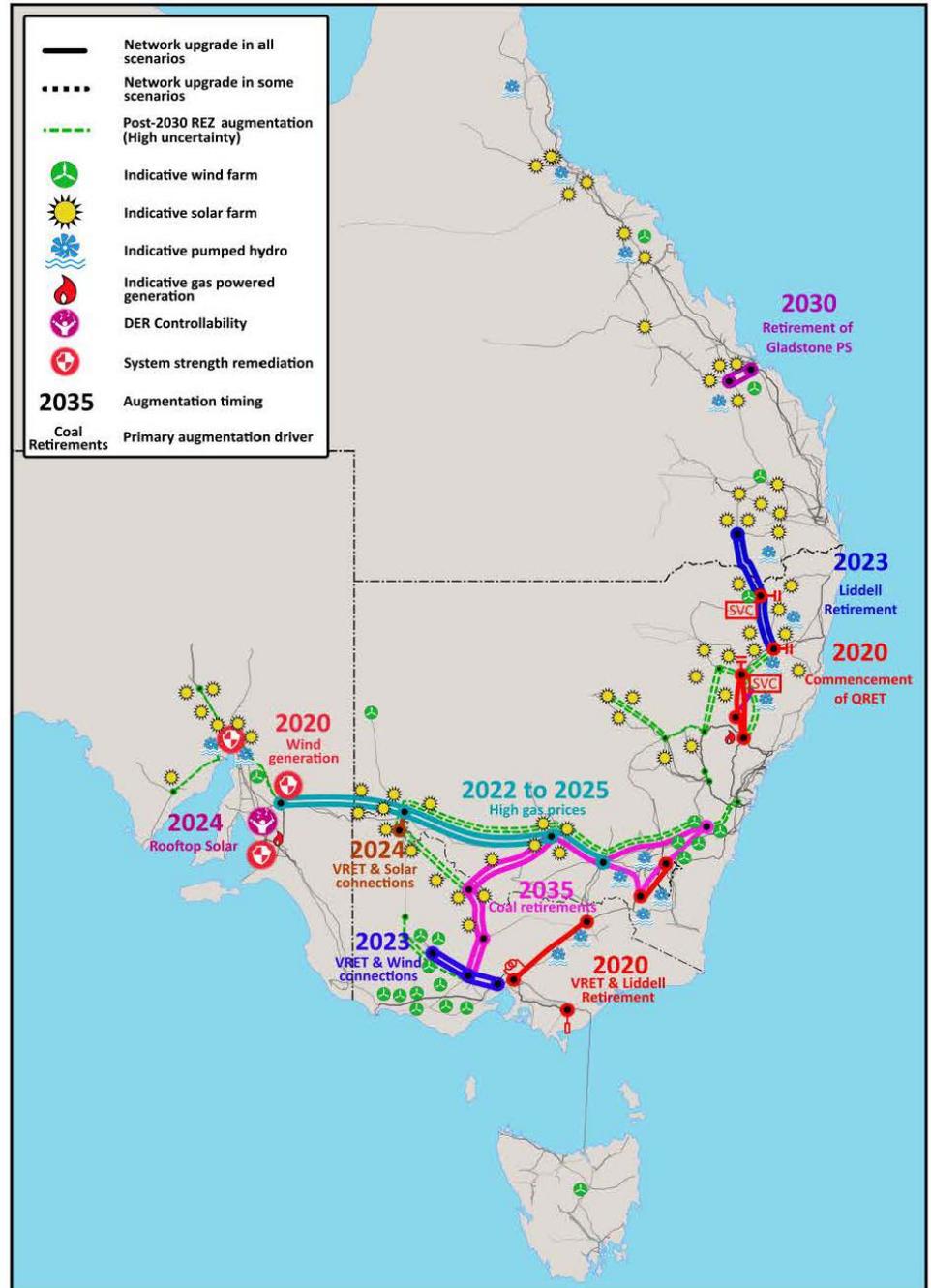
- National Electricity Market (AEMO)
- Paris Agreement Commitments
- Finkel Review – Future Energy Security NEM
- Integrated System Plan



# Integrated System Plan

July 2018

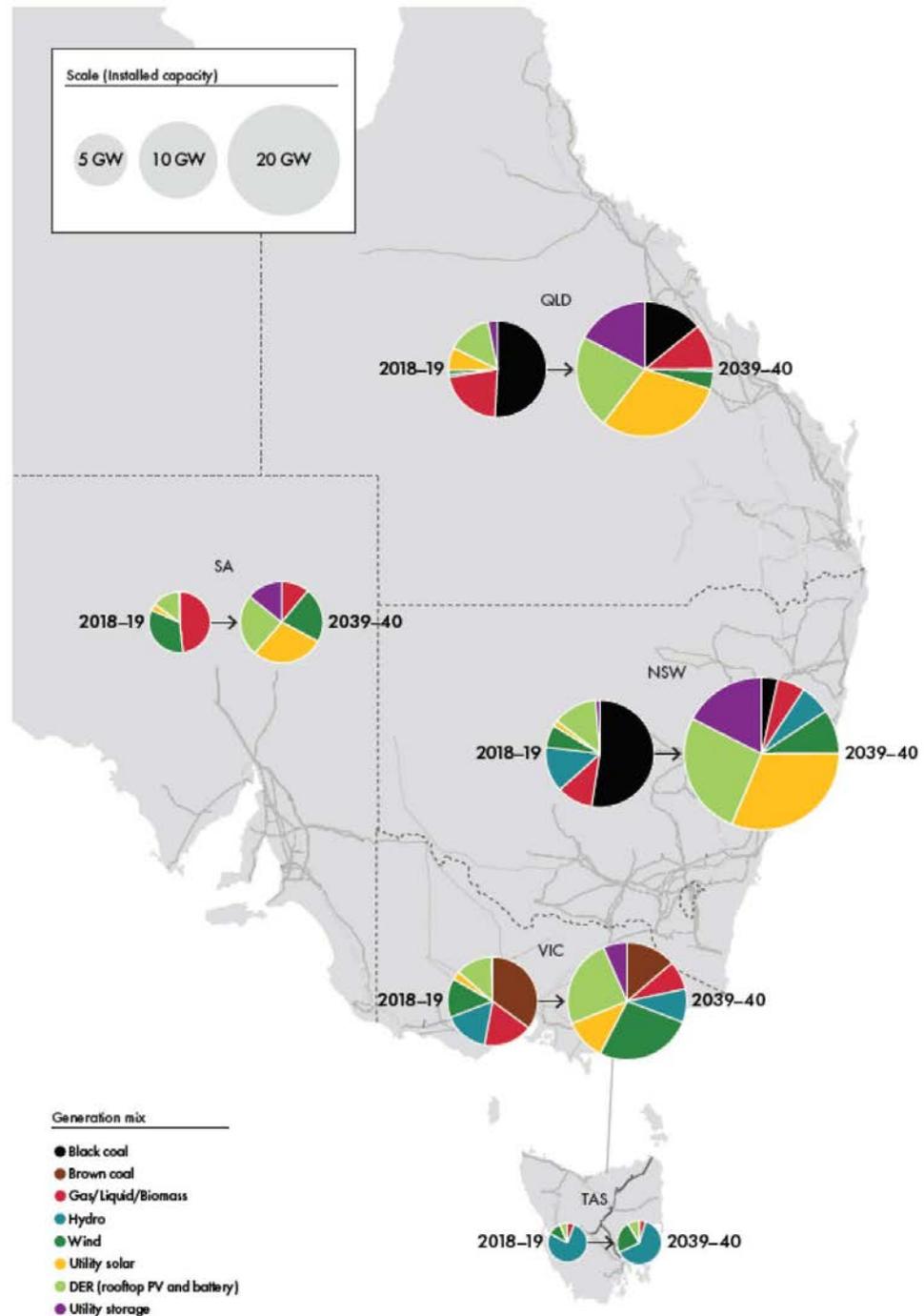
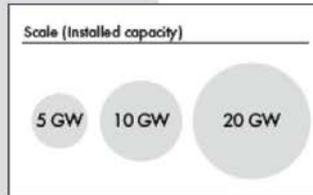
For the National Electricity Market



# Change in generation resource mix

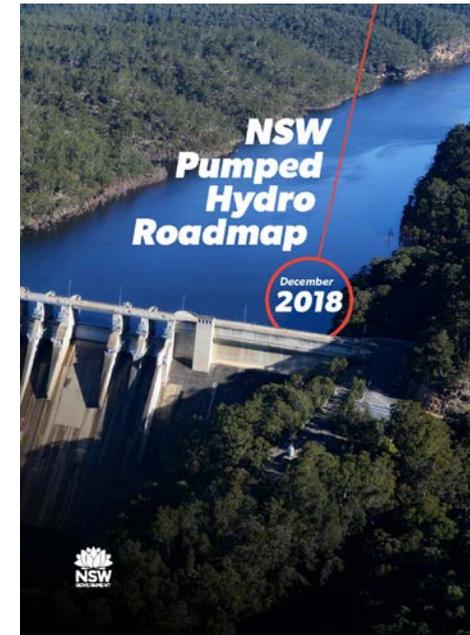
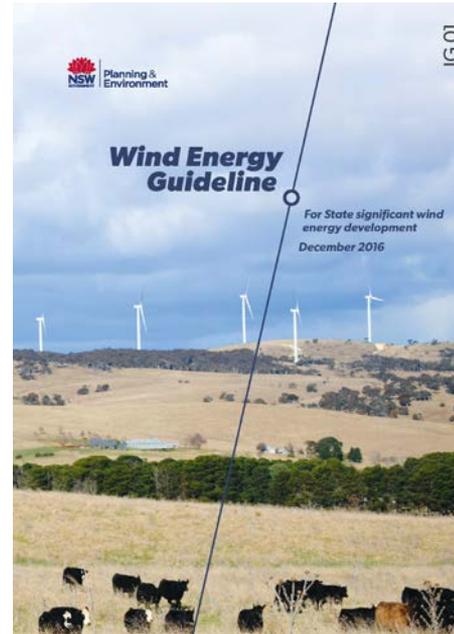
## Generation mix

- Black coal
- Brown coal
- Gas/Liquid/Biomass
- Hydro
- Wind
- Utility solar
- DER (rooftop PV and battery)
- Utility storage

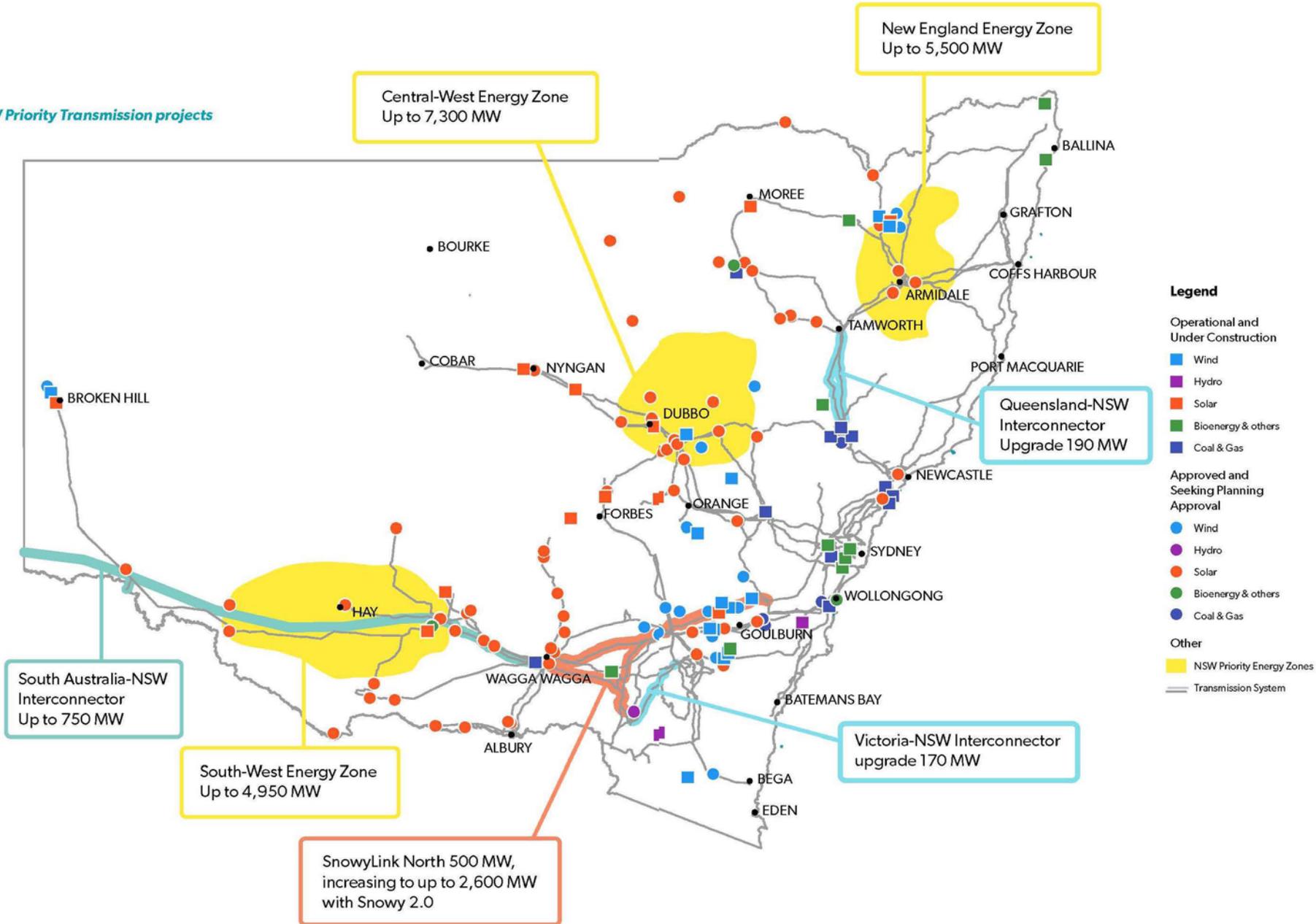


# NSW

- Climate Change Framework
- Renewable Energy Action Plan
- Renewable Energy Resources Map
- NSW Transmission Infrastructure Strategy
- New England & North West Regional Plan 2036
- Renewable Energy Guidelines



NSW Priority Transmission projects



**Legend**

Operational and Under Construction

- Wind
- Hydro
- Solar
- Bioenergy & others
- Coal & Gas

Approved and Seeking Planning Approval

- Wind
- Hydro
- Solar
- Bioenergy & others
- Coal & Gas

Other

- NSW Priority Energy Zones
- Transmission System

# Large-Scale Solar Development - NSW

- State Significant Development (>\$30 million)
- Permissibility (Infrastructure SEPP)
- Consent Authority – Minister/Independent Planning Commission
- Department & Agencies
- Councils
- Community Participation
- Policies & Guidelines
  - Large-scale Solar Energy Guidelines
  - Impact Assessment
- Standard Conditions

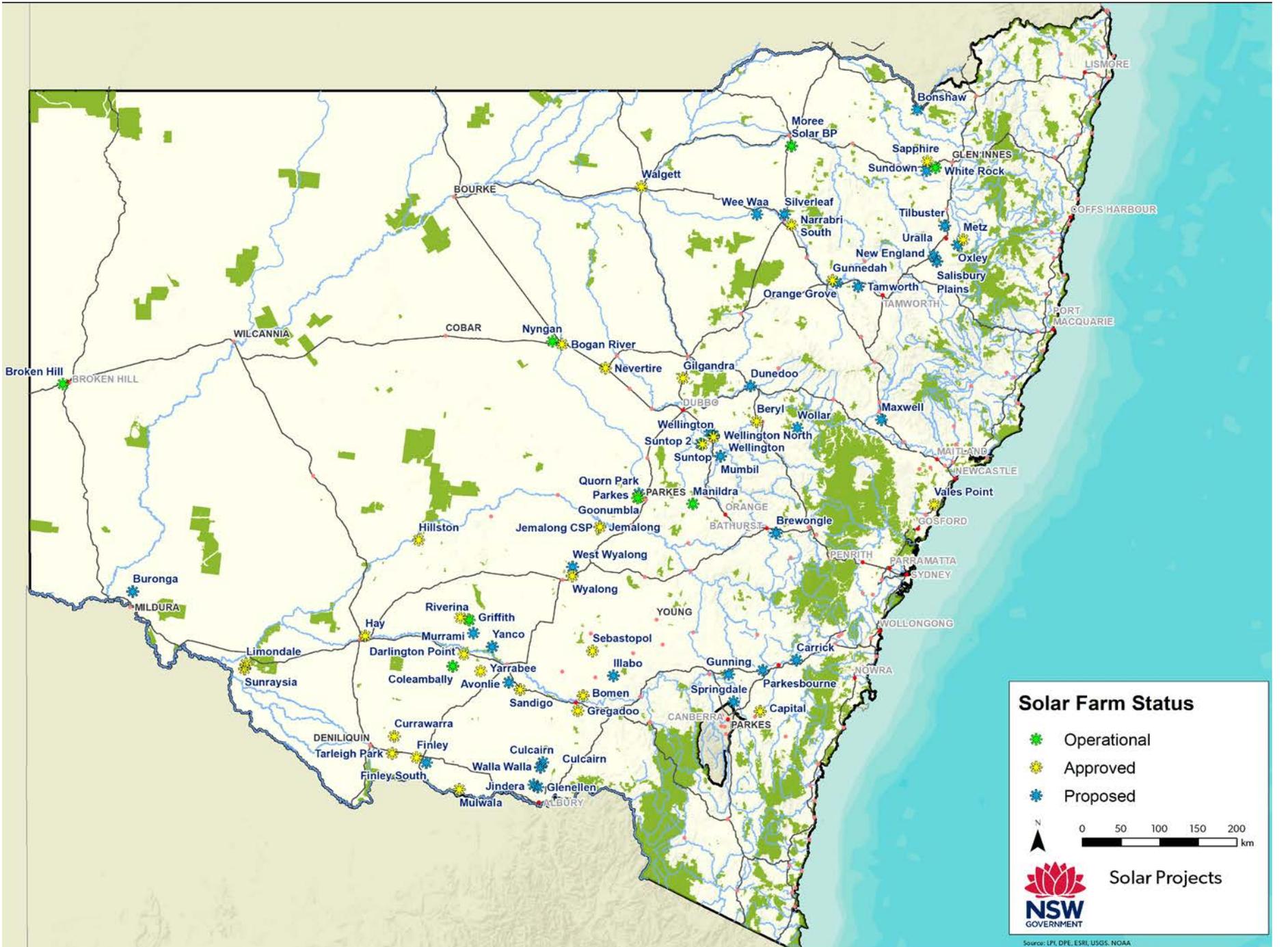


## **LARGE-SCALE SOLAR ENERGY GUIDELINE**

*For State Significant Development  
December 2018*

# State Significant Assessment Process





### Solar Farm Status

- Operational
- Approved
- Proposed

N

0 50 100 150 200 km



**NSW**  
GOVERNMENT

Solar Projects

Source: IPI, DPE, ESRI, USGS, NOAA

# New England Region

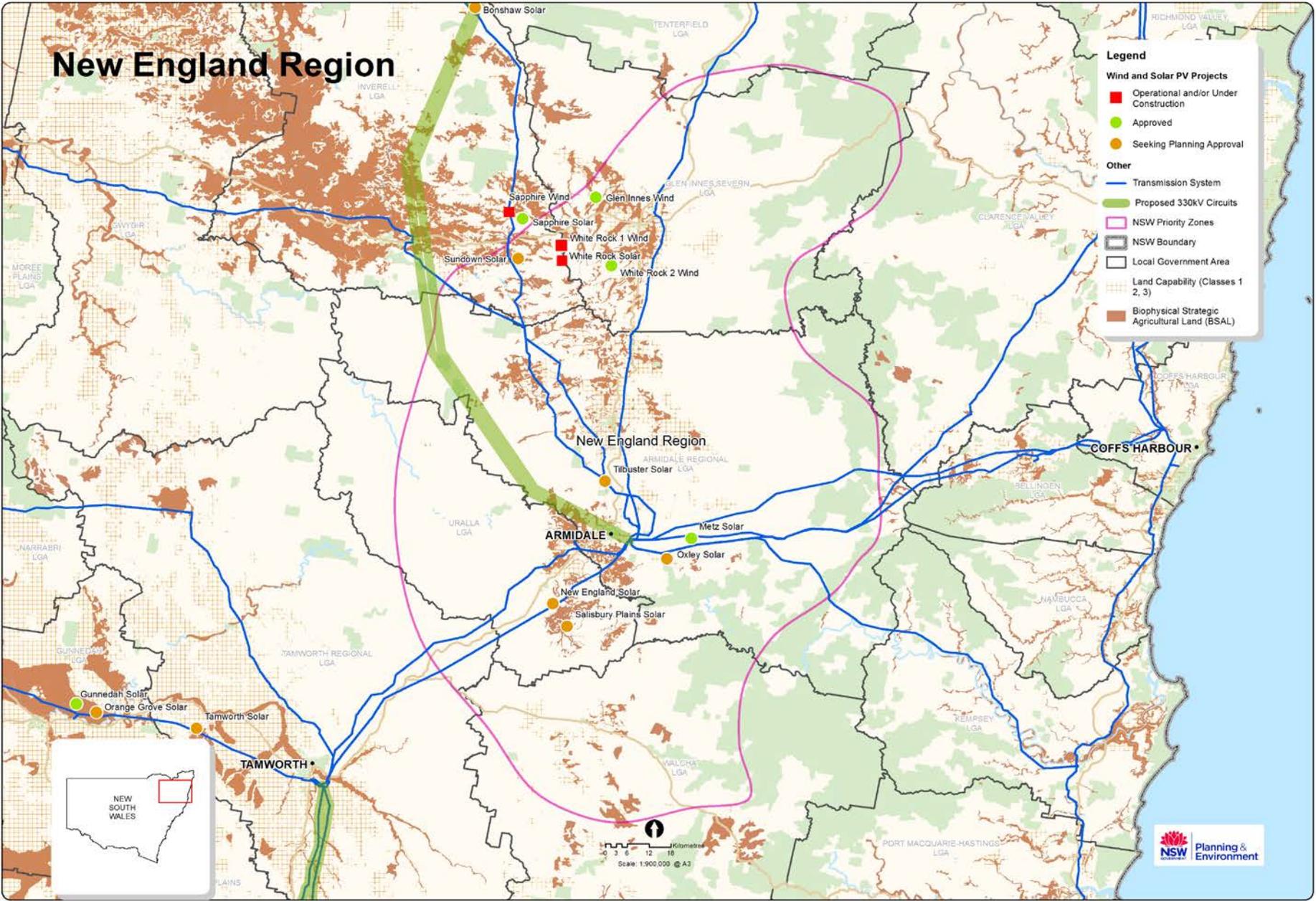
**Legend**

**Wind and Solar PV Projects**

- Operational and/or Under Construction
- Approved
- Seeking Planning Approval

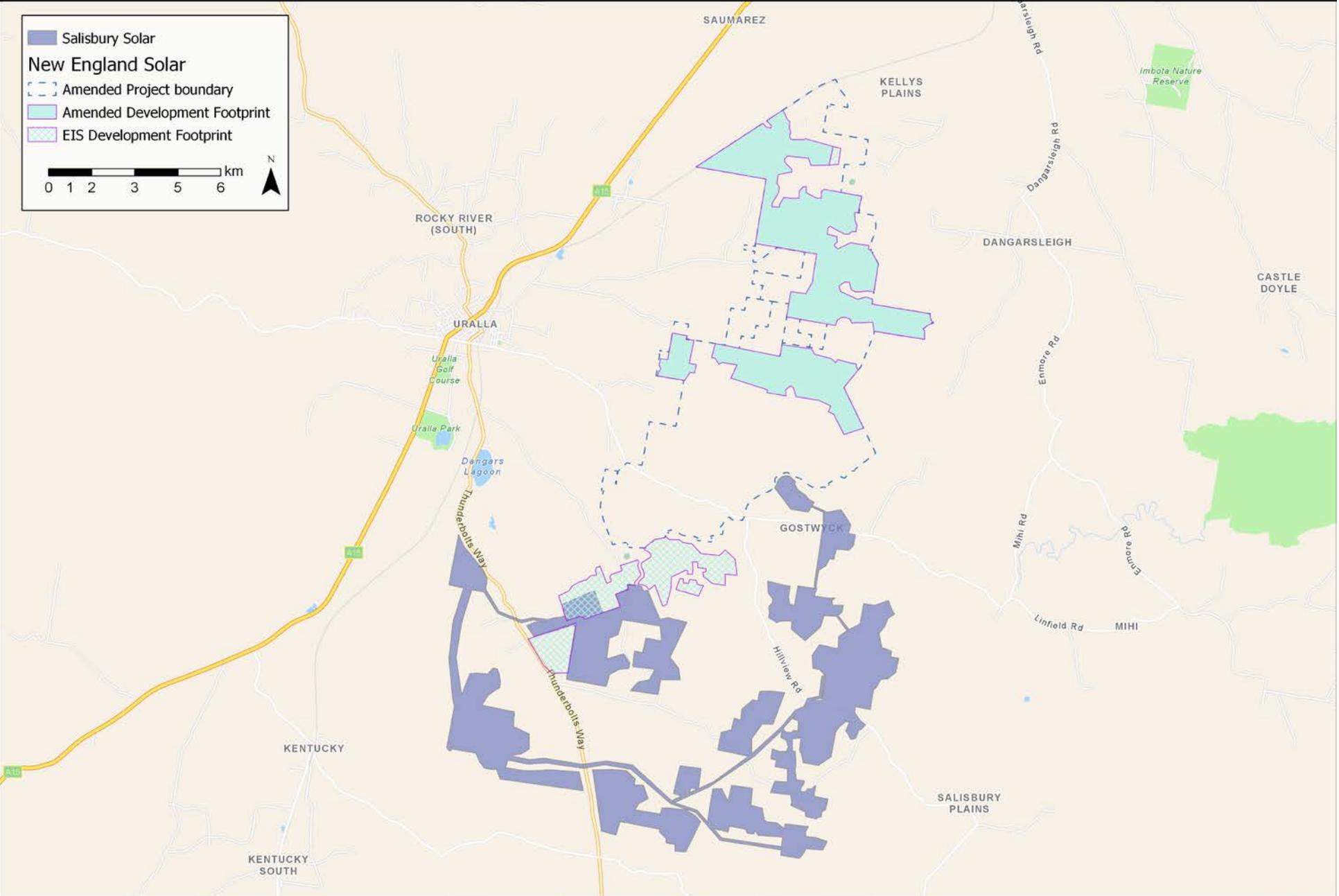
**Other**

- Transmission System
- Proposed 330kV Circuits
- NSW Priority Zones
- NSW Boundary
- Local Government Area
- Land Capability (Classes 1, 2, 3)
- Biophysical Strategic Agricultural Land (BSAL)



Salisbury Solar  
**New England Solar**  
 Amended Project boundary  
 Amended Development Footprint  
 EIS Development Footprint

0 1 2 3 5 6 km
  N



## ○ *Key Assessment Issues*

- Strategic Justification for Renewables
- Land & Agriculture
- Visual
- Traffic & Roads
- Bushfires & Flooding
- Biodiversity & Heritage
- Construction Impacts (dust, noise, water pollution, etc.)
- Decommissioning & Rehabilitation

# More Information

The screenshot shows the NSW Major Projects website. The browser address bar displays <https://www.planningportal.nsw.gov.au/major-projects>. The website header includes the NSW Government logo, the text 'Major Projects Department of Planning and Environment NSW Planning Portal', and a 'sign in' button. A navigation menu contains 'Projects', 'Assessment', 'Community', 'Services', and 'About'. A search bar prompts 'Search by Major Project Name...'. The main content area features a large image of a lake and mountains with the heading 'State Significant Infrastructure' and 'Snowy 2.0 - Exploratory Works'. Below this, a description reads: 'Exploratory works for the Snowy 2.0 electric storage and generation project, including construction of an exploratory tunnel and associated infrastructure.' A 'View Project' button is visible. At the bottom of the main content area, there is a link 'See all Featured Projects' and a 'Your Feedback' sidebar.

Welcome to our new Major Projects Website! We are in the process of transferring projects and data from the old website. You can continue to access the old website which will be live until we have transferred all the projects.

Services  
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[www.planningportal.nsw.gov.au/major-projects](https://www.planningportal.nsw.gov.au/major-projects)

