Birriwa Solar Farm

Independent Planning Commission Briefing

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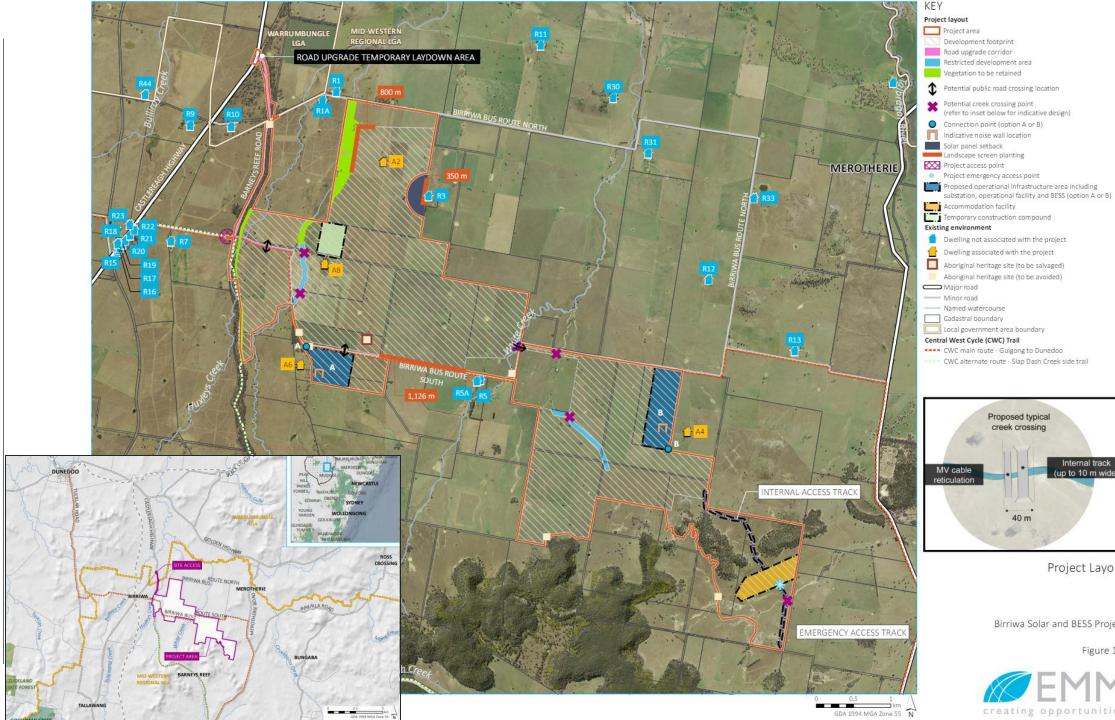
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Contents

- Context
- Engagement
- Key issues
- Other issues
- Evaluation





Project Layout

Internal track

(up to 10 m wide)

Birriwa Solar and BESS Project

Proposed typical creek crossing

Figure 1.0



Community Engagement & Public Submissions - EIS



EIS Public Exhibition:

- 14th October 10th November 2022
- 85 Objections
- 4 Comments

Amendment Report Exhibition:

- 6th October 19th October 2023
- 45 Objections
- 0 Comments

Other Engagement:

- The Department engaged with 13 Government Agencies throughout the assessment process
- The Department engaged with both Mid-Western Council and Warrumbungle Council throughout the assessment process
- The Department inspected the site in December 2023 and met with nearby landowners



Key Issues

- Energy transition
- Land use compatibility (including impacts on agricultural land)
- Traffic and transport
- Visual amenity
- Social amenity/Accommodation
- Cumulative Impacts
- Decommissioning / Rehab

Energy Transition



- 600 MW generating capacity that would power about 230,000 homes.
- Consistent with the NSW Climate Change Policy Framework of net zero emissions by 2050.
- Project is within the Central-West Orana Renewable Energy Zone, which has been identified for investment in new electricity infrastructure.
- Project would play an important role in:
 - Increasing renewable energy generation and capacity; and
 - Contributing to the transition to a cleaner energy system as coal fired generators retire.

Land Use Compatibility

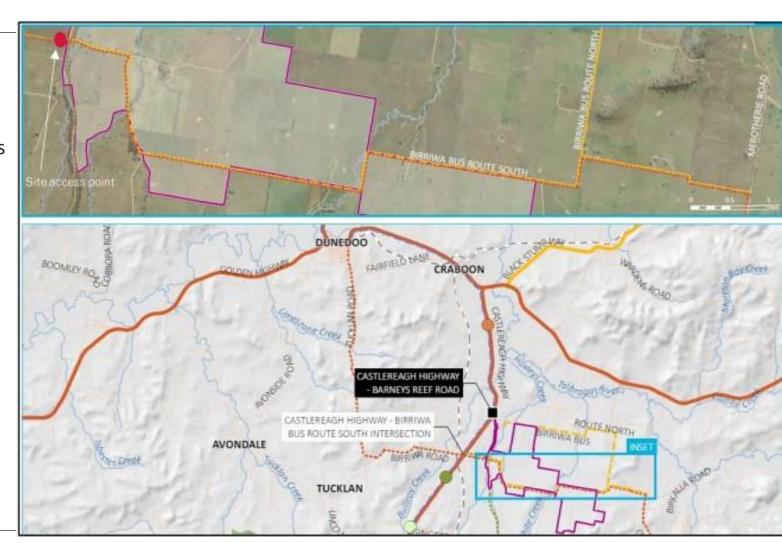


- The proposed development is permitted with consent as the relevant land zonings under each respective LEP (RU1 and SP2) are nominated non-residential zones for which electricity-generating development is permissible via the Transport and Infrastructure SEPP.
- Consistent with the Mid-Western LEP, the Warrumbungle LEP and the Central West and Orana Regional Plan 2041.
- Development footprint comprises of 1,197 ha of Class 5 and 7 land, which has limited agricultural capabilities.
- Land subject to development would be capable of returning to usable agricultural land following decommissioning.
- The cumulative impacts which the development footprint would have on regional productivity would be negligible.

Traffic & Transport

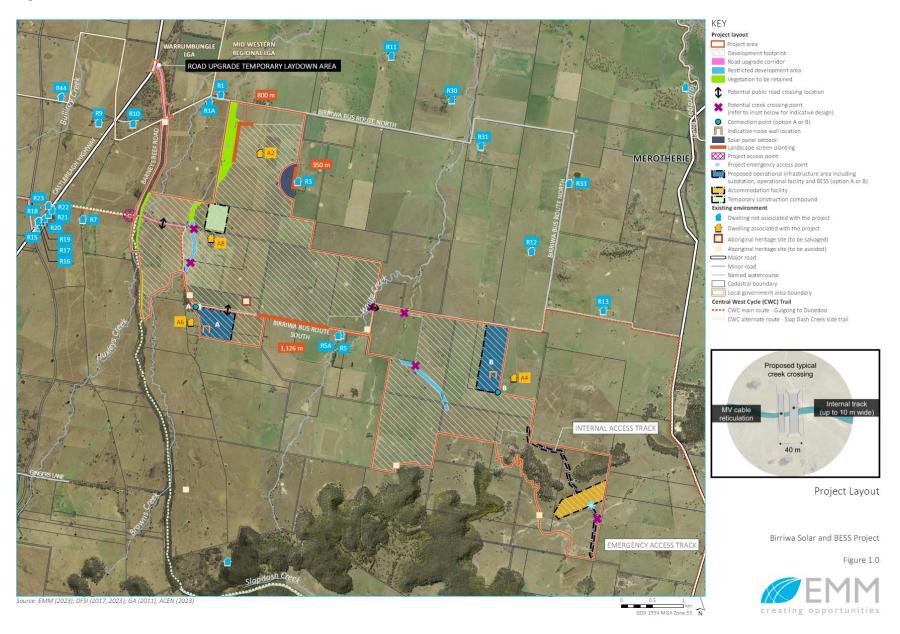


- The haulage route for the project is via the Castlereagh Hwy, Barneys Reef Rd, and Birriwa Bus Route Sth
- Daily (Peak) 120 heavy vehicles and 50 light vehicles
- 6 Heavy Vehicle Movements Requiring Escort
- Accommodation Camp reduces light vehicle movements from 360 per day to 50 per day.
- Roadworks included within the proposed project includes road widening along Barneys Reef Rd and Birrwa Bus Route Sth, resurfacing, and two intersection upgrades (Barneys Reef Road / Castlereagh Highway and Barneys Reef Rd / Birrwa Bus Route Sth)



Visual Impacts

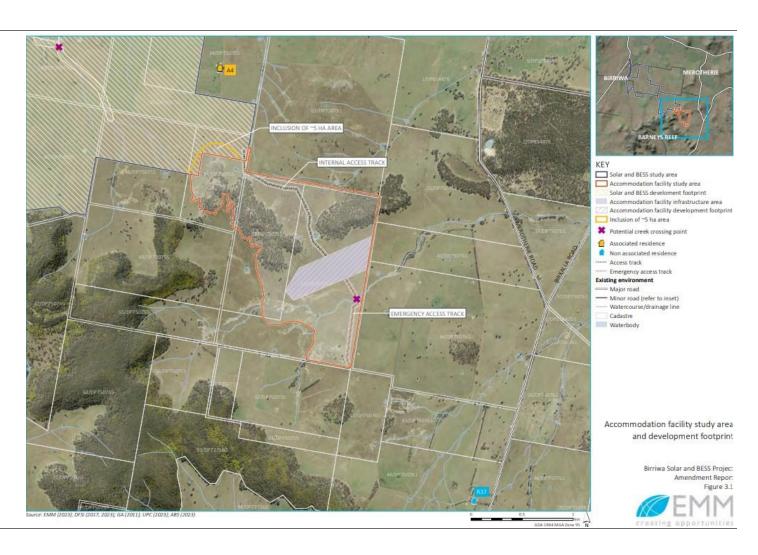




Social Amenity/ Accommodation



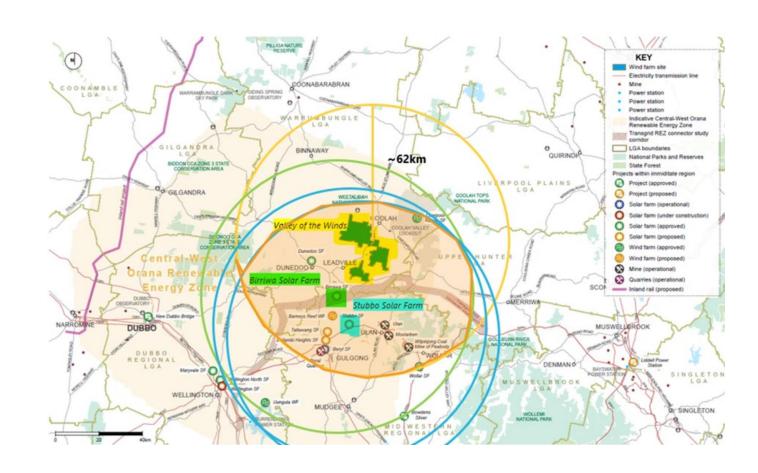
- Both the EIS exhibition and Amendment exhibition received 15 submissions which raised concerns relating to social impacts.
- An accommodation camp was proposed through the amendment report to reduce impacts to social amenities including roads and accommodation.
- Access to the camp is through main site access and camp will be provided with medical services including on-site nurse and security
- The Department is satisfied that the proposed accommodation camp is capable of being effectively serviced.



Cumulative Impacts



- In accordance with the SSD Guidelines, potential cumulative impacts have been identified with five nearby projects:
- Merotherie Energy Hub (under assessment)
- Stubbo Solar Farm (construction)
 - Generation capacity: 400 MW
- Tallawang Solar Farm (RTS recieved)
 - Generation capacity: 500 MW
- Barneys Reef Wind Farm (proposed)
 - o Generation capacity: 300 MW
- Valley of the Winds Wind Farm (proposed)
 - o Generation capacity: 800 MW
- Key cumulative impacts considered:
 - loss of agricultural land;
 - traffic; and
 - visual impacts



Decommissioning and Rehabilitation



- Operational life is likely to be up to 40 years.
- The Large-Scale Solar Energy Guideline identifies four key decommissioning and rehabilitation principles:
 - 1. Return land to pre-existing use
 - 2. Remove project infrastructure
 - Rehabilitate and return land to its pre-existing use (including LSC Class)
 - 4. The owner/operator should be responsible for the decommissioning and rehabilitation
- Solar farm would be suitably decommissioned and rehabilitated at the end of the project life, or within 18 months if
 operations cease unexpectedly.
- Accommodation camp to be decommissioned within 12 months of operation of the solar farm.



Other Issues

- Department also conducted detailed assessment of the following:
 - Biodiversity
 - Heritage
 - Erosion and sediment control
 - Water
 - Dust
 - Waste
 - Noise
 - Hazards and risks
 - Subdivision
 - Community benefit
 - Land value

Evaluation



- The Department has assessed the application, documents, submissions and advice, as per the requirements
 of the EP&A Act.
- The Department acknowledges that some members of the community remain strongly opposed to the project, and that the project would result in residual environmental and amenity impacts.
- Changes made to the project through the assessment process have significantly reduced the residual impacts of the project.
- With the implementation of the recommended conditions, the Department considers that the environmental
 and amenity impacts of the project can be managed to achieve acceptable outcomes.
- The project would:
 - provide significant economic and social benefits to the region
 - contribute to the transition of the NSW economy away from a reliance on fossil fuels
 - maximise the efficiency of the solar resource while minimising the potential impacts on surrounding land uses, local residents, and the environment.