Glenellen Solar Farm Independent Planning Commission Briefing

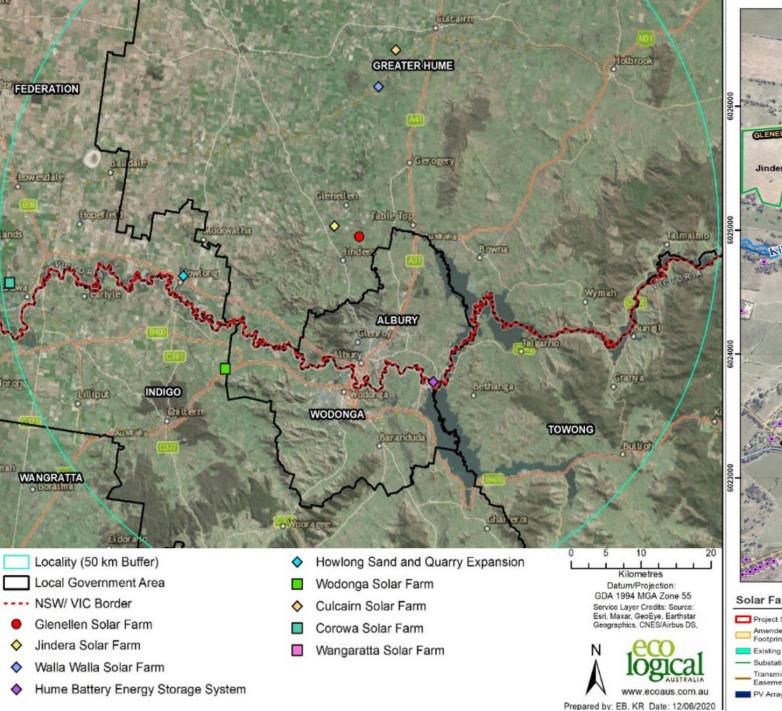
Iwan Davies Director, Energy Assessments 1 November 2023

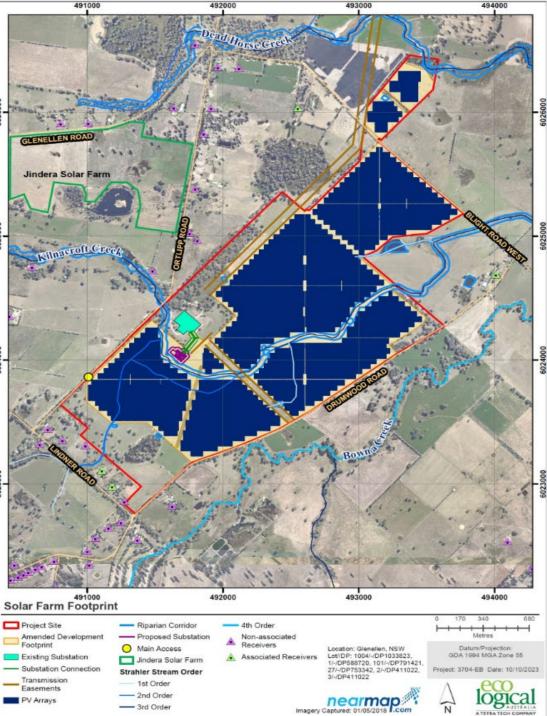


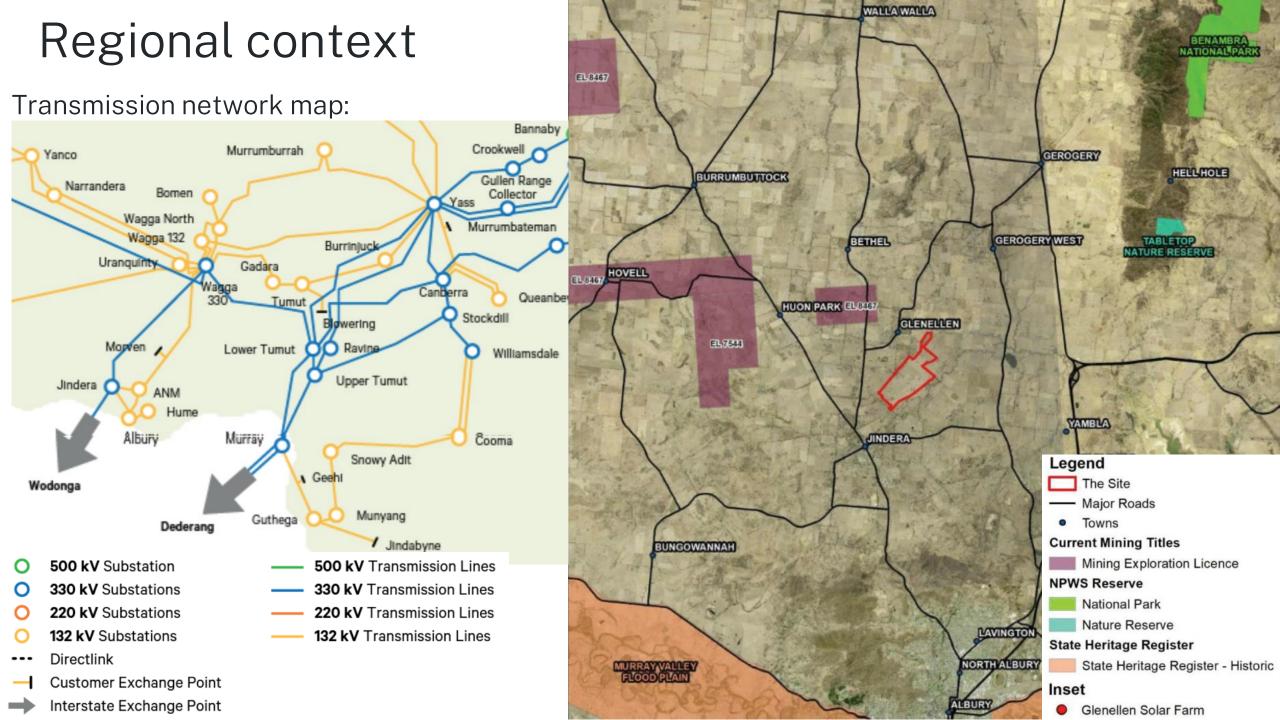


Contents

- Context
- Engagement
- Key Issues
- Other Issues
- Evaluation







Community engagement

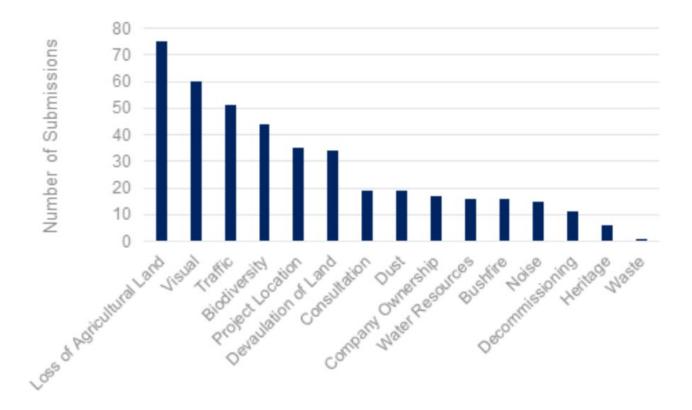


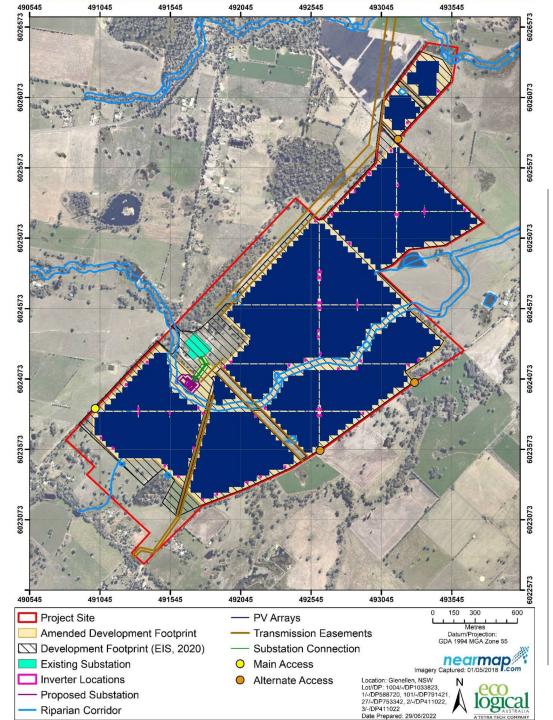
- Public Exhibition 31 October to 30 November 2020
 - 107 public submissions:
 - 79 objections from individuals (including one petition signed by 67 individuals)
 - 27 supporting submissions
 - 1 comment from an individual
 - Advice from 12 government agencies
 - Greater Hume Council consultation
- Community information session in 2019.
- Site visit on 20 May 2022
- Consultation with Landowners

Public Submissions



- Supporting submissions cited transition to renewable energy sources and increased employment and economic benefits.
- Public objections cited:
 - land use compatibility;
 - visual amenity;
 - traffic;
 - biodiversity;
 - project location; and
 - devaluation of land.





Project amendments



- Key amendments to project design included:
 - $\circ~$ a revised heavy vehicle haulage route;
 - $\circ~$ 2.7 ha reduction in impact on native vegetation;
 - recontouring of an inundation area in the south-east of the site;
 - $\circ~$ reduced visual impacts through:
 - relocation of the substation expansion;
 - removal of more than 22,000 solar panels;
 - increased spacing between panels from 6 m to 9 m;
 - reduction in height of fencing and meteorological station;
 - increased setbacks from Lindner, Ortlipp and Drumwood Roads; and
 - increased vegetation screening.



Key Issues

- Energy transition
- Land use compatibility (including impacts on agricultural land)
- Traffic
- Visual amenity

Energy Transition

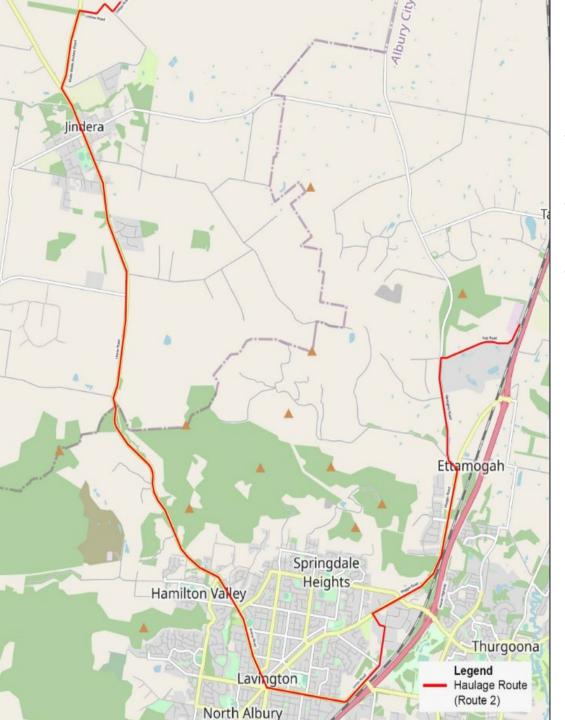


- 200 MW generating capacity that would power about 76,400 homes
- Consistent with the NSW Climate Change Policy Framework of net zero emissions by 2050
- Project is within an area with direct access to the transmissions network and with available capacity and solar resources
- Project would play an 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



- A key concern raised in submissions.
- Project is permissible on the site under the State Environmental Planning Policy (Infrastructure) 2007.
- Project is consistent with the Greater Hume Local Strategic Planning Statement 2018.
- Project is consistent with the Department's Riverina Murray Regional Plan 2041.
- Site is not identified as a future growth area by Council.
- Development footprint is entirely Class 4 land with moderate to severe limitations.
- The combined area of projects within the Riverina Murray region represents 0.09% of the 9.1 million ha of land currently used for agriculture.
- Agricultural capability of the land would be returned following decommissioning.



Traffic and transport



- Council originally objected given the proposed use of Glenellen Road.
- Road haulage route was amended to avoid the use of Glenellen Road and Council withdrew its objection
- Two road haulage routes were assessed:
 - From Port of Newcastle Hume Highway, Thurgoona Drive, Union Road, Urana Road, Walla Walla Jindera Road, Lindner Road, and Ortlipp Road.
 - 2. From a port in Melbourne railed to the Ettamogah Rail Hub then transported to site via Hub Road, Gerogery Road, Wagga Road, Catherine Crescent, Union Road, Urana Road, Walla Walla Jindera Road, Lindner Road, and Ortlipp Road.

Traffic and transport - road upgrades

WICEN LINDER ROAD & ORLIPP ROAD

TRINA SOLAR



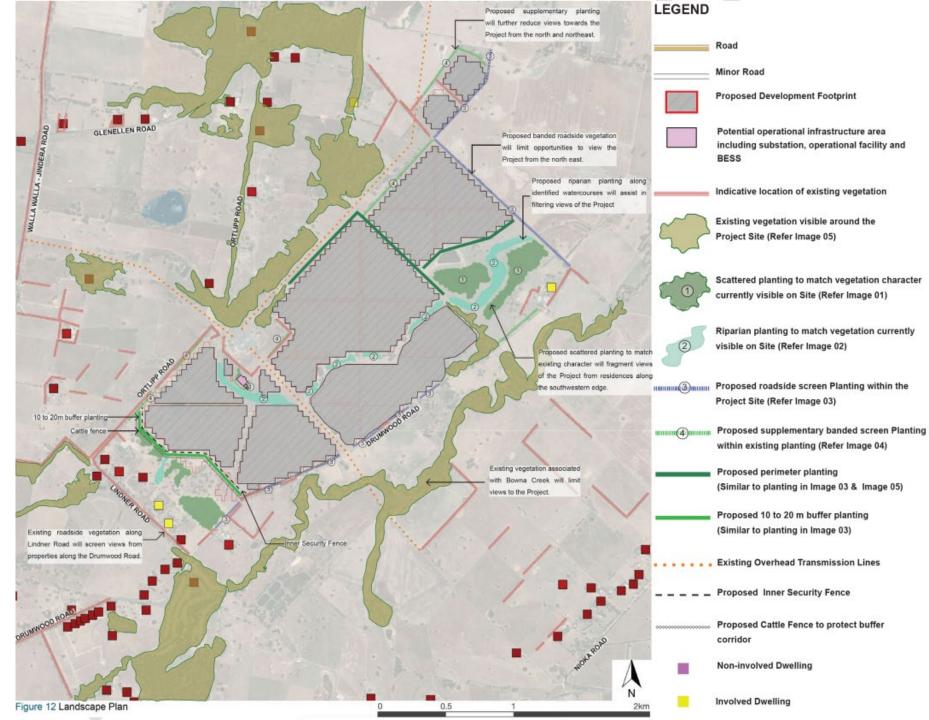


GL-SF-GN-RU-002

1.1

Visual impacts

- All residences would experience nil to low impacts.
- This would be further reduced by on-site vegetation screening.
- Additional vegetation screening at individual properties would also be considered.
- The Applicant would continue to offer neighbour agreements following determination.



Biodiversity and Heritage

Biodiversity

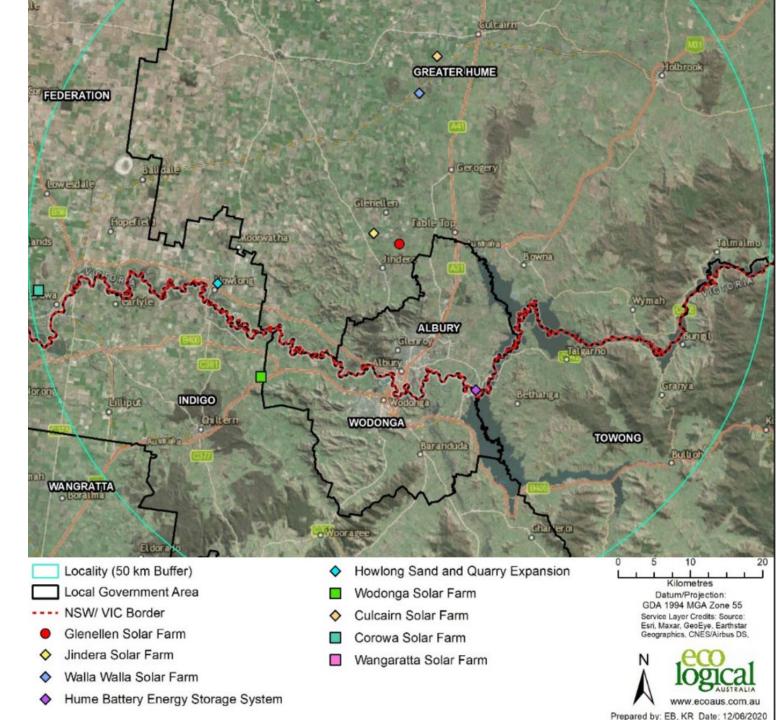
- 8.7 ha of native vegetation clearance.
- Habitat for three threatened species impacted:
 - Southern Myotis 1 ha;
 - Austral Pillwort 1 ha; and
 - Squirrel Glider 0.05 ha.
- 175 ecosystem credits and 38 species credits would be retired.

Heritage

- 3 stone artefact of low significance would be salvaged.
- No sites or items of historic heritage within the development footprint.

Cumulative impacts

- Jindera Solar Farm
 - Generation capacity: 120 MW
- Walla Walla Solar Farm
 - $\circ~$ Generation capacity: 300 MW ~
- Culcairn Solar Farm
 - o Generation capacity: 350 MW
- Key cumulative impacts considered:
 - loss of agricultural land;
 - \circ traffic; and
 - \circ visual impacts



Decommissioning and Rehabilitation



- Operational life is likely to be 20 to 30 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
 - 3. 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.



Other Issues

- Department also conducted detailed assessment of the following:
 - \circ Noise impacts
 - o Dust impacts
 - o Heat island effect
 - Water and erosion
 - o Hazards analysis
 - $\circ \quad \text{Bushfire risk} \\$
 - Socio-economic impacts





- 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 these changes and 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:
 - o provide significant economic and social benefits to the region
 - \circ $\,$ 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.