Oxley Solar Farm

Independent Planning Commission Briefing

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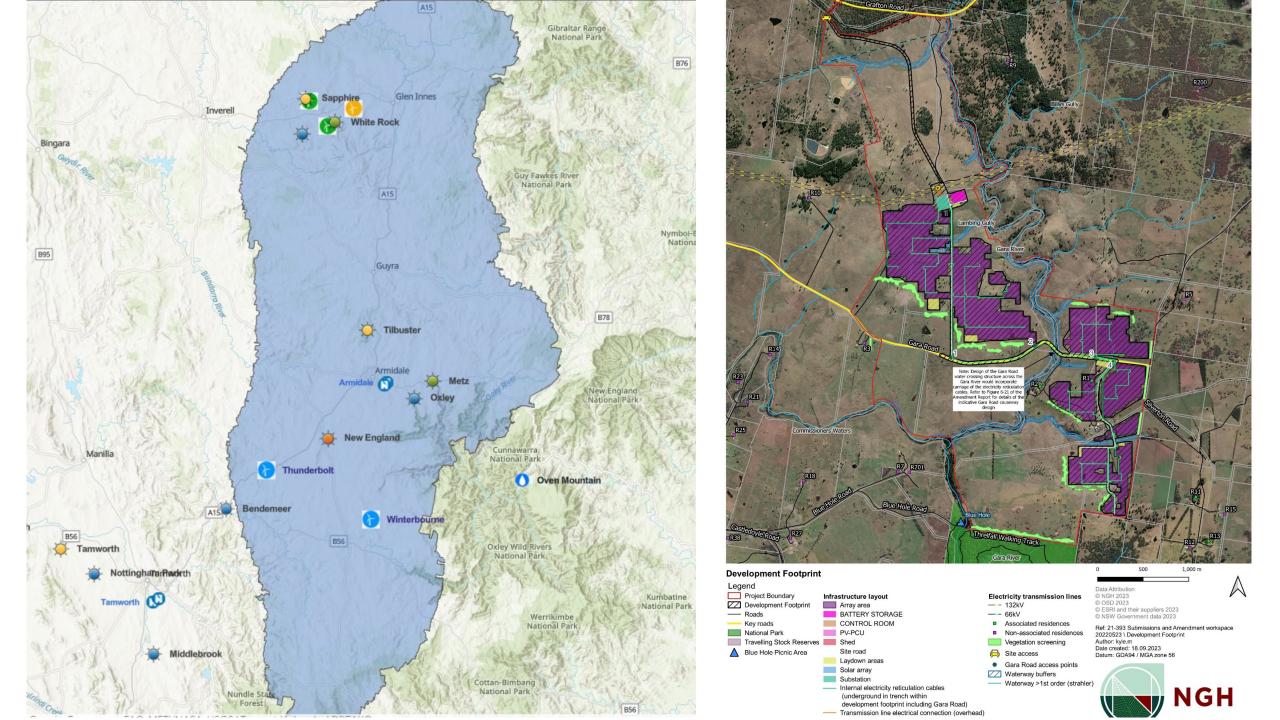
12 October 2023





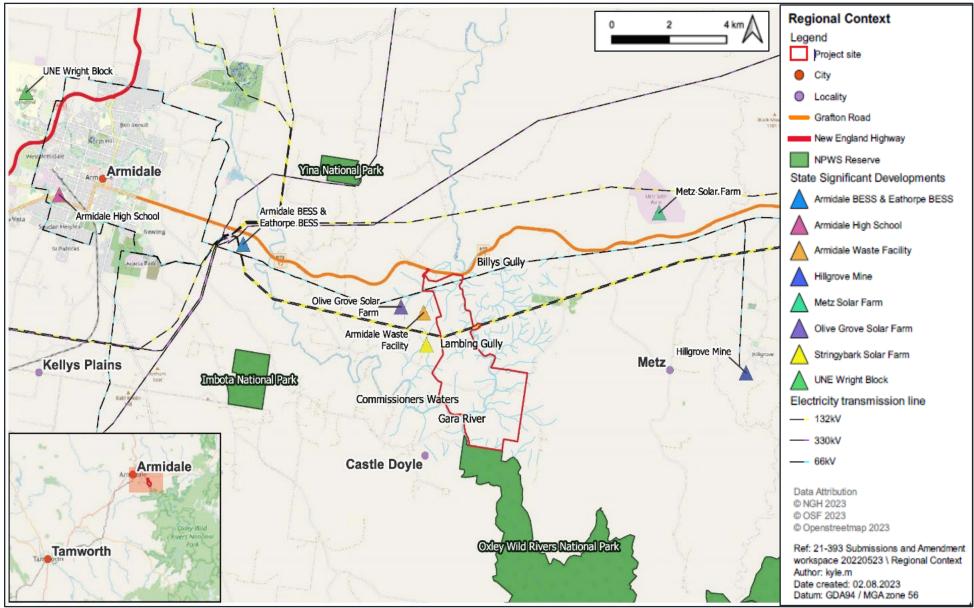
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Regional Context





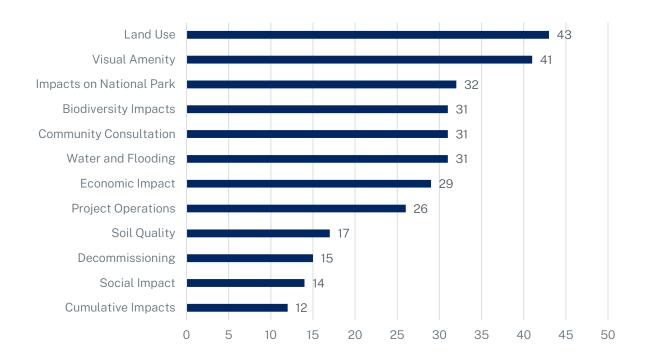
Community engagement



- Public Exhibition 17 March to 14 April 2021
 - 79 public submissions:
 - 77 objections from individuals
 - 1 comment from an individual
 - 1 objection from a special interest group
 - Advice from government agencies:
 - Armidale Regional Council comments
- Community information session + Site visit 4 May 2021
- Consultation with Landowners

Public submissions





| Submitter distance to development footprint | Object | Comment |
|---|--------|---------|
| < 2 km | 12 | 0 |
| 2 – 5 km | 22 | 1 |
| 5 - 15 km | 16 | 0 |
| 15 – 50 km | 5 | 0 |
| > 50 km | 17 | 0 |
| Other* | 6 | 0 |
| Total | 78 | 1 |

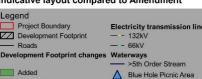
Development Footprint changes from EIS (EIS

Project amendments



- Development footprint reduced by 627 ha (from 895 ha to 268 ha);
- Setbacks from residences and National Park:
 - R3 additional 181 m setback, from 597 m to 778 m;
 - R5 additional 69 m setback, from 684 m to 615 m;
 - R201 additional 845 m setback, from 739 m to 1,584 m;
 - Blue Hole Picnic Area: additional 810 m setback, from 475 m to 1,285 m
 - Threlfall Walking Track: additional 498 m setback, from 667 m to 1,165 m
- Biodiversity:
 - avoidance of 451.43 ha (83%) of the 544.21 ha of native vegetation on site;
 - reduction of Box Gum Woodland impact zones from 6.67 ha to 2.6 ha;
- Revised site access point from Armidale Regional Landfill access road via Waterfall Way
- Revised upgrades, including Gara Road / Gara River Causeway

Development Footprint changes from EIS (EIS indicative layout compared to Amendment



Data Attribution

NGH 2023

SSD 2023

SSR and their suppliers 2023

SSR and their suppliers 2023

SSR and SSR and Amendment workspace 20220523 \ Development Footprint changes from EIS (EIS indicative layout compared to Amendment Development Footprint) to submissions/amendment



Key Issues

- Energy transition
- Land use compatibility
- Biodiversity
- Visual amenity
- Traffic and transport

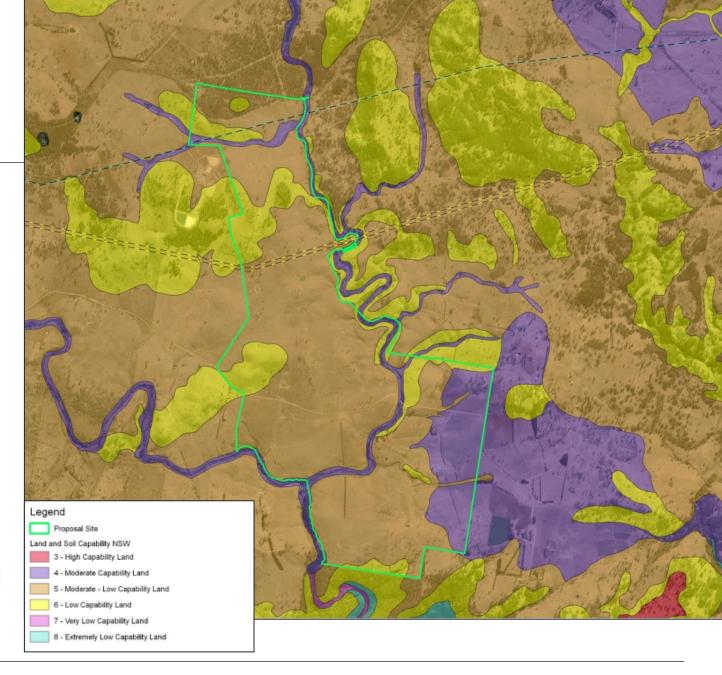
Energy Transition



- 215 MW generating capacity that would power about 80,000 homes
- Project would play an important role in the New England REZ:
 - Increasing renewable energy generation and capacity of the NEM;
 - Firming the grid by including 50 MW / 50 MWh energy storage; and
 - Contributing to the transition to a cleaner energy system as coal fired generators retire.
- 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

Land Use Compatibility

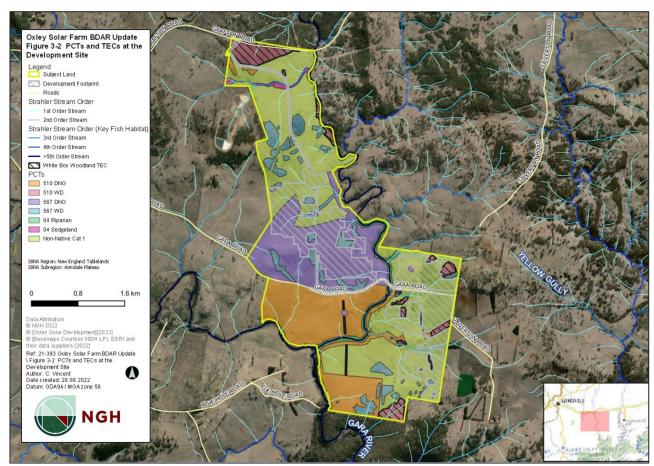
- Most common issues raised in submissions
- Land is zoned RU1 under Armidale LEP
- Site is predominately used for grazing with limited cropping occurring
- Sheep grazing may be enabled within the project site whilst the solar farm is operational
- Development footprint is 30% Class 4, 67% Class 5 and 3% Class 6 under Land and Soil Capability Mapping for NSW
- Manage and restore land capability for agriculture following decommissioning
- The combined area of projects in the area is 5,302 ha, which represents 0.07% of the 7.9 million ha of land currently used for agriculture within the New England North West region



Biodiversity



- Site is comprised mostly of paddocks that have been cleared for agricultural purposes
- Much of the site (65 %) is considered Category 1 exempt land in accordance with the Local Land Services Act 2013
- Project was amended to reduce impacts and avoid higher quality areas of native vegetation
- Box Gum Woodland was identified on site and no solar panels are proposed in these areas with only 1.4% (1.68 ha) to be removed
- Increased setback from Gara River to avoid impacts on better condition native vegetation within the riparian corridor
- Disturbance requires 1,459 ecosystem credits and 1,978 species credits to be retired on accordance with the NSW Biodiversity Offset Scheme.

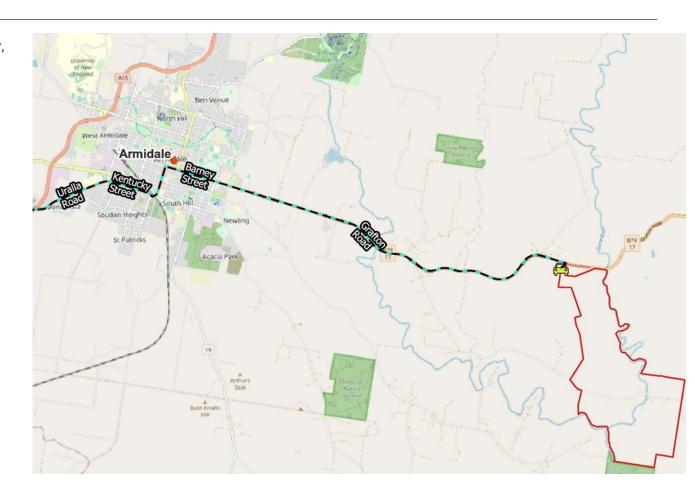




Traffic and transport



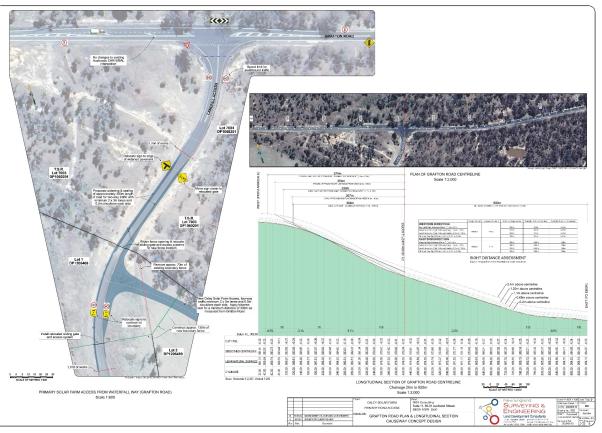
- Transport route: Port of Newcastle or Sydney via the New England Highway, Uralla Road, Kentucky Street, Dangar Street, Barney Street, Waterfall Way and Armidale Regional landfill facility (ARL) access road
- Vehicle movements during construction, up to:
 - 46 heavy vehicle movements per day (during 9-month peak)
 - five heavy vehicles requiring escort movements during construction, upgrading or decommissioning
- Operation: 5 light vehicle movements and up to 2 heavy vehicle movements per day with most occurring early in the morning and late in the afternoon
- Road Upgrades required prior to commencing:
 - widening a 200 m section of the landfill access road
 - Constructing the primary site access point off the landfill access road
 - upgrading a 2km section of Gara Road
 - constructing four secondary access points on Gara Road
 - upgrade of the Gara Road River Causeway



Road upgrades



Landfill access road upgrade and primary site access point

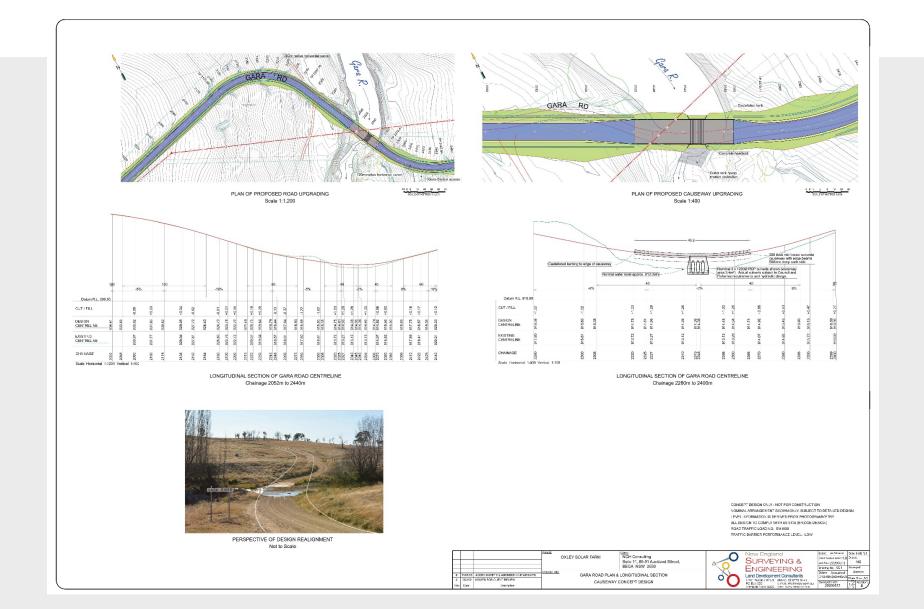


Gara Road upgrade and secondary site access points



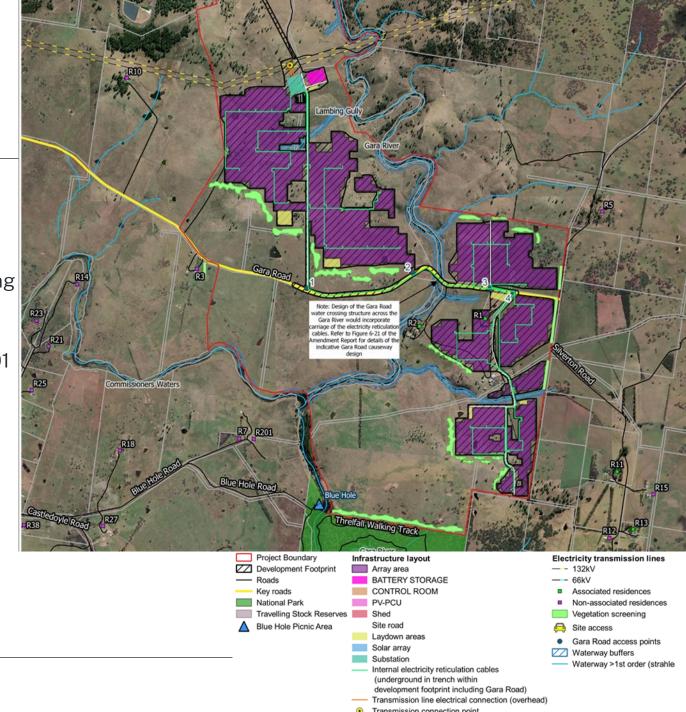
Road upgrades continued..





Visual Impacts

- 11 non-associated residence within 2km of the development footprint
- Amendments to reduce visual impacts:
 - Panels removed to the South-West of the site reducing visual impacts for a number of dwellings along Milne, Blue Hole, Anderson and Castledoyle Road
 - Project infrastructure setback for R3, R5, R7 and R201
- Landscape plantings would further reduce views of the project
- Five residences would have no views of the project
- Six would experience low or very low visual impacts
- OSD will consult with these landowners to implement vegetation planting to assist in reducing residual impacts from these residences.
- Potential for glare to be experienced at 9 residences.
 Existing and proposed vegetation would reduce potential glare.



Cumulative Impacts

Proposals in Armidale Regional LGA

Oxley Solar Farm

- Generation capacity: 215 MW
- 50 MW / 50 MWh energy storage facility
- Development footprint: 286 ha

Metz Solar Farm – operational

- Generation capacity: 100 MW
- Development footprint: 507 ha

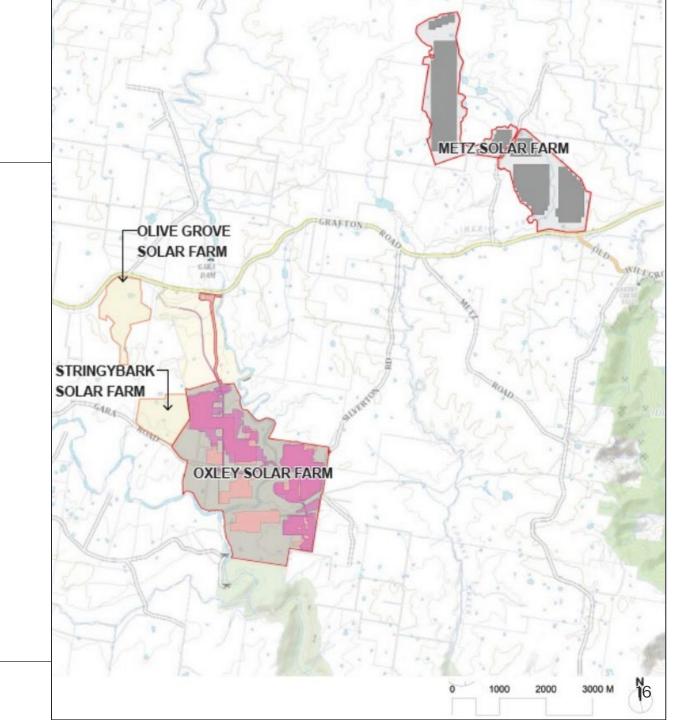
Stringybark Solar Farm – approved *

- Generation capacity: 29.9 MW
- Development footprint: 91 ha

Olive Grove Solar Farm – approved *

- Generation capacity: 29.9 MW
- Development footprint: 104 ha

*Not SSD (Determined by the Joint Regional Planning Panel)



Decommissioning and Rehabilitation



- Operational life is likely to be 20 to 30 years, with potential to operate longer if panels are upgraded over time, as permitted under the recommended conditions of consent.
- 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
- With the implementation of objective-based conditions and monitoring requirements, the Department considers that the solar farm would be suitably decommissioned at the end of the project life, or within 18 months if operations cease unexpectedly, and that the site be appropriately rehabilitated.



Other Issues

As per IPC agenda:

- Historic heritage
- Water supply
- Flood risk
- Bushfire risk and APZs
- Noise impacts
- Socio-economic
- Statutory considerations
- Waste management

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 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:
 - 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.