Proposal Content Document

Narrogin Wind Farm

Table 1.1 General Proposal Content Description

Proposal title	Narrogin Wind Farm
Proponent name	Neoen Australia Pty Ltd
Short description	Development of a wind farm approximately 7 km east of the township of Williams and 9 km west of the township of Narrogin in Western Australia. The Proposal will involve the construction and operation of up to 25 turbines, a battery energy storage system (BESS) and ancillary infrastructure. It is located across numerous freehold properties that are primarily cleared for agricultural purposes. The Proposal will connect into an existing 220 kV overhead line that intersects the southern boundary of the Project Development Envelope.

Table 1.2 Proposal Content Elements

Proposal element	Location/description	Maximum extent, capacity or range
Physical elements		
Project Development Envelope comprising of the following in the indicative disturbance corridor: • Turbines • Turbine foundations • Hardstands • Electrical connections, substations and grid connection • BESS • Operational and maintenance facility • Permanent meteorological masts • Communication towers • External site access • Internal access roads • Temporary construction infrastructure • Utilities.	See **Figure 1**.	Clearing of no more than 7.41 ha of remnant native vegetation and 0.98 of planted native vegetation within the 6,344.1 ha Project Development Envelope. Clearing extent is conservative and is likely to decrease through the detailed design process.

Proposal element	Location/description	Maximum extent, capacity or range
Transport Development Envelope for transport of infrastructure from port to site.	See **Figure 1**.	Clearing of no more than a 0.2 ha of native vegetation and weeds within the 1.85 ha Transport Development Envelope.
Construction elements		
Construction compound and laydown areas. Borrow pits/quarries. Temporary workers accommodation (provisional). Hardstands. Stockpile areas.	See Indicative Proposal Footprint on **Figure 1**.	Construction will take approximately 33 months. The Indicative Proposal Footprint is 192 ha.
Water supply.	Within the Project Development Envelope (**Figure 1**).	Source will be from a Water Corporation main pipeline that traverses the Project Development Envelope.
Concrete batching plant.	Within Project Development Envelope (**Figure 1**).	Concrete for the foundations will be mixed at concrete batching plants which are proposed to be part of the laydown areas within the Project Development Envelope. Concrete batching material may be sourced off-site.
Transport of turbines and associated infrastructure along existing road network.	See **Figure 1**.	Clearing of no more than a 0.2 ha of native vegetation within the 1.85 ha Transport Development Envelope.
Operational elements		
Wind energy production and battery energy storage. Transmission connection and substation. Operations and Maintenance building.	Within Project Development Envelope (**Figure 1**).	25 turbines with a production capacity of 200MW. BESS 100MW / 200MWh.
Proposal elements with greenhouse gas emissions		
Construction elements:		
Scope 1	Clearing of native vegetation – approx. 1,232 t CO_2e. On-site power generation – approx. 3,100 t CO_2e. On-site vehicle movements – approx. 500 t CO_2e.	
Scope 2	Not applicable.	
Scope 3	Supply of equipment and materials – approx. 7,066 t CO_2e. Off-site employee vehicle movements – approx. 1,610 t CO_2e. Turbine lifecycle emissions are covered under operational elements.	
Operation elements:		
Scope 1	No significant ongoing scope 1 emissions.	
Scope 2	No significant ongoing scope 2 emissions.	

<table>
<tr><th>Proposal element</th><th>Location/description</th><th>Maximum extent, capacity or range</th></tr>
<tr><td>Scope 3</td><td colspan="2">Supply of equipment and materials – approx. 11.6 t CO_2e / annum.
Off-site employee vehicle movements – approx. 0.3 t CO_2e / annum.</td></tr>
<tr><td colspan="3">Rehabilitation</td></tr>
<tr><td colspan="3">At the end of the 33-month construction period, temporary construction areas will be returned to pre-construction condition.</td></tr>
<tr><td colspan="3">Commissioning</td></tr>
<tr><td colspan="3">There are no environmental impacts specific to commissioning.</td></tr>
<tr><td colspan="3">Decommissioning</td></tr>
<tr><td colspan="3">At the end of the current lease term, a decision will be made whether to:
Decommission the Proposal permanently; or
Remove the old turbines and seek to replace them with new, upgraded models.
Decommissioning would include the following:
De-energising plant and equipment.
Dismantling and removal of turbines, BESS, ancillary electrical infrastructure and transmission lines, as well as all other aboveground buildings, foundations and equipment.
Rehabilitation of disturbed land.
Recycling of recyclable materials (including batteries).
Decommissioning of some elements may be subject to the landowner’s discretion (such as access tracks).</td></tr>
<tr><td colspan="3">Other elements which affect extent of effects on the environment</td></tr>
<tr><td rowspan="4">Proposal time</td><td>Maximum project life.</td><td>The proposed technology is expected to have an economic life of approximately 25-30 years.</td></tr>
<tr><td>Construction phase.</td><td>Approximately 33 months.</td></tr>
<tr><td>Operations phase.</td><td>Approximately 25-30 years</td></tr>
<tr><td>Decommissioning phase.</td><td>Approximately 24 months</td></tr>
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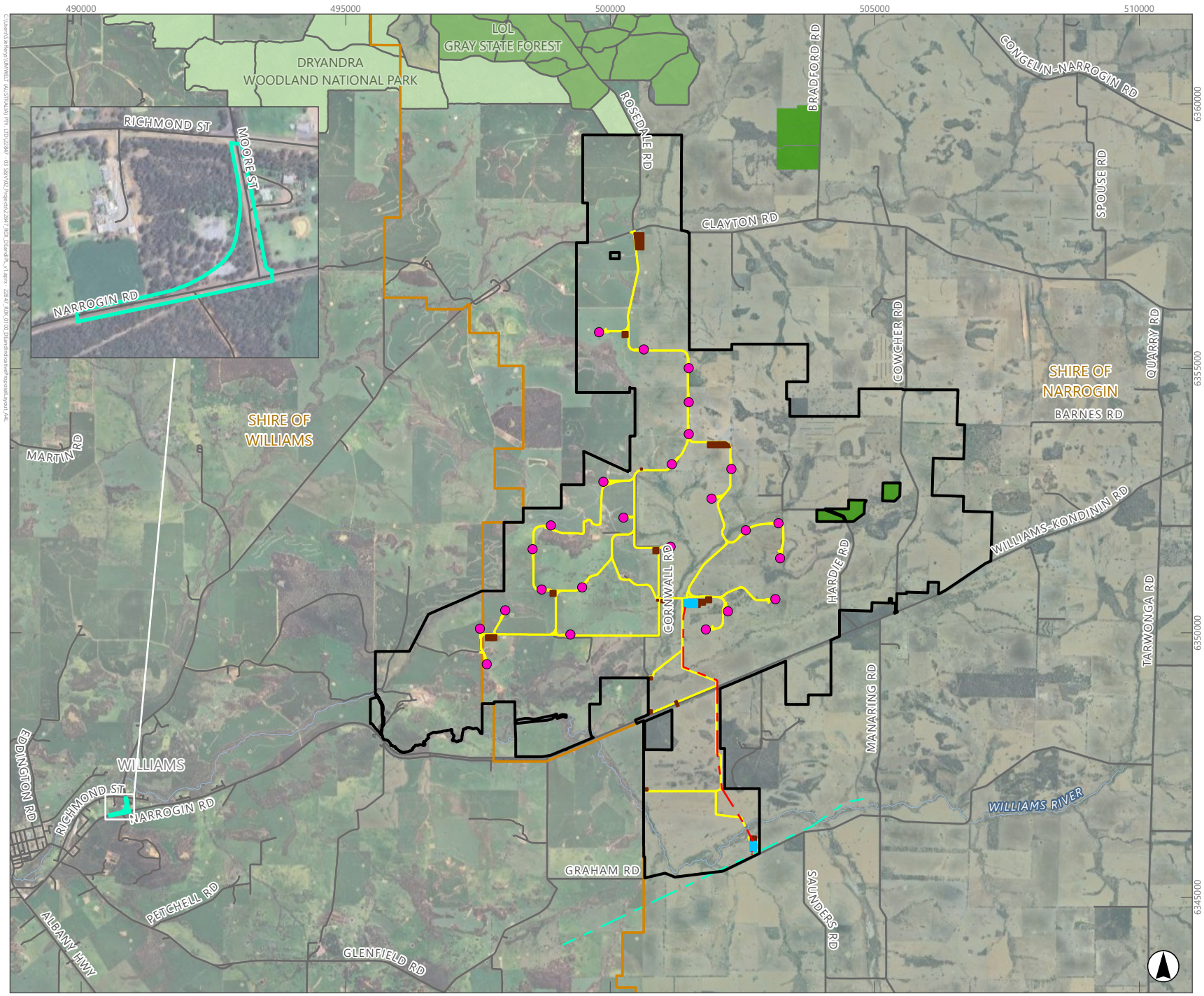

FIGURE 1

Development Envelopes and Indicative Proposal Layout

Legend

- Project Development Envelope
- Transport Development Envelope
- Road
- Existing 220kV Transmission Line
- Major Watercourse
- Local Government Area Boundary
- Nature Reserve
- National Park
- State Forest

Indicative Proposal Footprint

- Turbine
- BESS and Substation
- Overhead Transmission Connection
- Internal Roads and Underground Cabling
- Temporary Construction Infrastructure

0 2 4

Kilometres

Scale 1:100,000 at A4
GDA2020 MGA Zone 50

Image Source: ESRI Basemap (2023) | **Data Source:** Landgate (2023), Umwelt (2023), DBCA (2023)