

Proposal Content Document

Yathroo Wind Farm

Table 1.1 General Proposal Content Description

Proposal title	Yathroo Wind Farm
Proponent name	Neoen Australia Pty Ltd
Short description	<p>The Proposal is located within the Shire of Dandaragan and is within the Central Coast subregion of the Wheatbelt. It is approximately 5 km south of the town of Dandaragan, 6.3 km north of Regans Ford, and 120 km north of Perth, WA. The Proposal will involve the construction and operation of up to 65 turbines, a battery energy storage system (BESS) and ancillary infrastructure. It is located across numerous freehold properties that are primarily cleared for agricultural purposes.</p> <p>The Proposal is proposed to connect to an existing Western Power transmission line in the south-west and west of the Project Development Envelope that provides suitable network access with sufficient capacity to accommodate the Proposal.</p>

Table 1.2 Proposal Content Elements

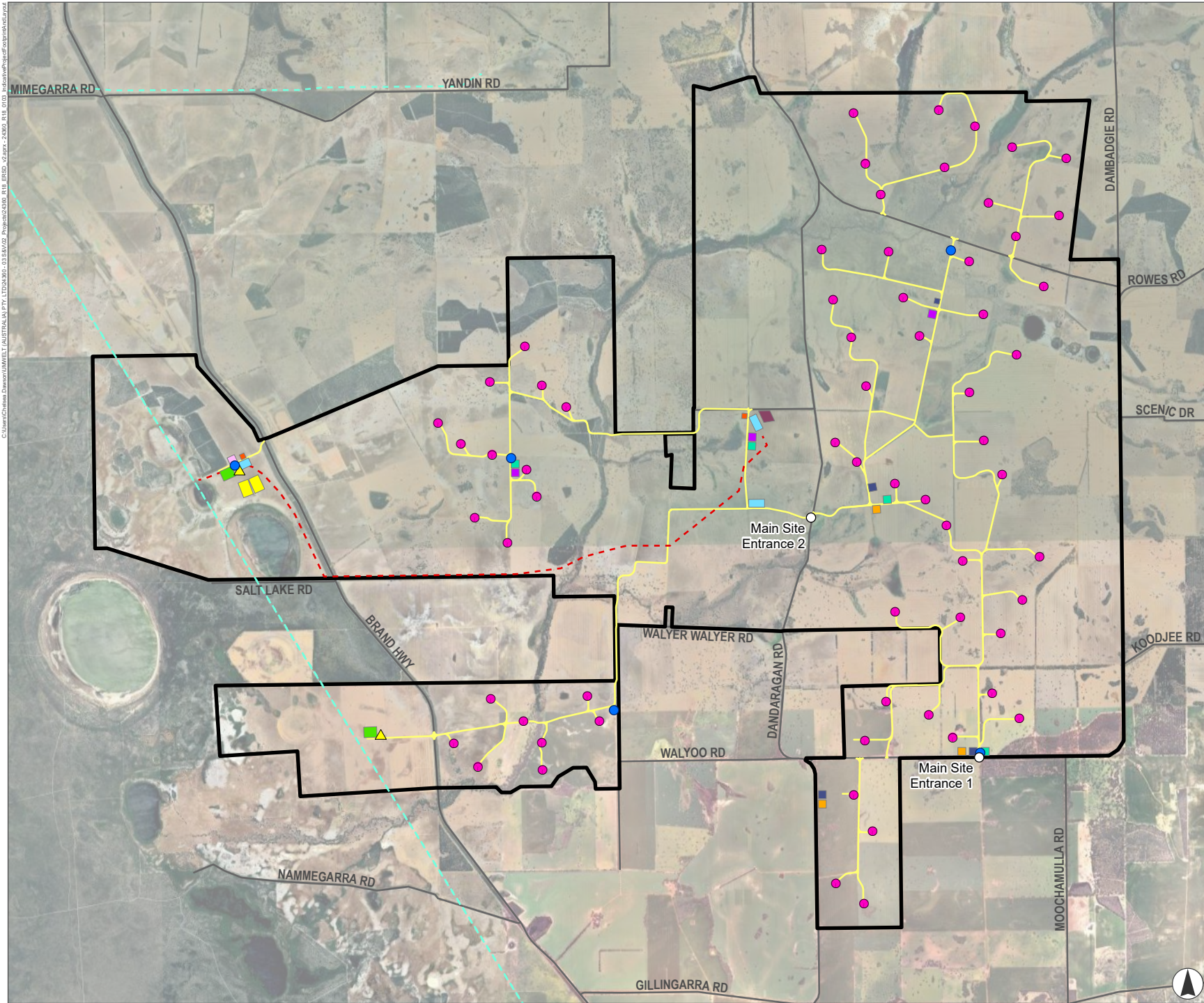
Proposal element	Location/description	Maximum extent, capacity or range
Physical elements		
Project Development Envelope comprising of the following in the indicative proposal footprint: <ul style="list-style-type: none"> turbines turbine foundations electrical connections, substations and grid connection underground cabling BESS operation and maintenance facilities meteorological masts communication towers external site access internal access roads firewater tanks utilities 	See Figure 1.1	Clearing of no more than 10.28 ha of remnant native vegetation, 5.45 ha of isolated native trees and shrubs, 5.05 ha of planted native and exotic Eucalypts, and 2.27 ha of non-native plantations within the 15,618 ha Project Development Envelope. Clearing extent is conservative and is likely to decrease through the detailed design process.
Construction elements		
<ul style="list-style-type: none"> construction compound and laydown areas borrow pits/quarries hardstands stockpile areas 		Construction will take approximately 33-36 months. The Indicative Proposal Footprint is 729.1 ha.

Proposal element	Location/description	Maximum extent, capacity or range
<ul style="list-style-type: none"> water supply 	Within the Project Development Envelope	Water supply will be provided via the abstraction of groundwater from an existing bore within the Project Development Envelope. This would involve an increase to the existing licence of 200,000 kL/ year for 3 years.
<ul style="list-style-type: none"> concrete batching plants 	Within the Project Development Envelope	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.
<ul style="list-style-type: none"> transport of turbines and associated infrastructure along existing road network 		No clearing required outside of Project Development envelope.
Operational elements		
<ul style="list-style-type: none"> Wind energy production and battery energy storage. Transmission connection and substation Operations and Maintenance buildings 	Within the Project Development Envelope	65 turbines with a production capacity of 500 MW BESS 400 MW / 3200 MWh
Proposal elements with greenhouse gas emissions use gas emissions		
Construction elements:		
Scope 1	Clearing of native vegetation – approx. 2,307 t CO ₂ e On-site power generation – approx. 5,300 t CO ₂ e On-site vehicle movements – approx. 3,400 t CO ₂ e	
Scope2	Not Applicable	
Scope 3	Supply of equipment and materials – approx. 18,371 t CO ₂ e Off-site employee vehicle movements – approx. 2,595 t CO ₂ e Turbine lifecycle emissions are covered under operational elements.	
Operation elements:		
Scope 1	No significant ongoing scope 1 emissions	
Scope2	No significant ongoing scope 2 emissions	
Scope 3	Supply of equipment and materials – approx. 30.3 t CO ₂ e / annum Off-site employee vehicle movements – approx. 0.5 t CO ₂ e / annum	
Rehabilitation		
At the end of the 33-36 month construction period, temporary construction areas will be returned to pre-construction condition. Additionally, 1 ha of degraded wetland will be rehabilitated after connection to the existing transmission line has been completed.		
Commissioning		
There are no environmental impacts specific to commissioning.		
Decommissioning		
At the end of the operations phase, a decision will be made whether to:		
<ul style="list-style-type: none"> Decommission the Proposal permanently; or Repower the wind farm which may include selective turbine and component replacement. Decommissioning would include the following: <ul style="list-style-type: none"> De-energising plant and equipment 		

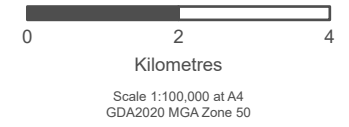
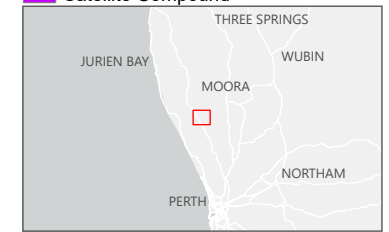
Proposal element	Location/description	Maximum extent, capacity or range
<ul style="list-style-type: none"> Dismantling and removal of turbines, BESS, ancillary electrical infrastructure and transmission lines, as well as other aboveground buildings, foundations and equipment as far as practicable Rehabilitation 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)		
Other elements which affect extent of effects on the environment		
Proposal time	Maximum project life	The proposed technology is expected to have an economic life of approximately 25-30 years
	Construction phase	Approximately 33 -36 months
	Operations phase	Approximately 25-30 years
	Decommissioning phase	Approximately 24 months

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FIGURE 1.1
Project Development Envelope and Indicative Proposal Footprint



- Legend**
- Road
 - - - Existing 132/330kv Transmission Line
 - Project Development Envelope
 - Wind Turbine Generator (WTG)
 - Firewater Tanks
 - ▲ Communication Towers
 - Site Access
 - Internal Roads and underground Cabling (Permanent)
 - - - Proposed 330kV transmission route - 13.21km
 - BESS
 - O&M Facility
 - Substation
 - Western Power Terminal
 - Batch
 - Batch Plant
 - Main Compound
 - Laydown
 - Overhead Transmission Line Compound
 - Satellite Compound



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