Baru-Marnda Renewable Energy Project

Proposal Content Document

Table 1: General proposal content description

Proposal title	Baru-Marnda Renewable Energy Project
Proponent name	Yindjibarndi Energy Pty Ltd
Short description	Yindjibarndi Energy Corporation is proposing to develop the Baru-Marnda Renewable Energy Project, approximately 50 km south of Karratha, Western Australia on Yindjibarndi ngurra. The proposal will comprise wind and solar energy generation facilities of up to 1,000 and 500 Megawatts ac respectively with option for energy storage, and associated hardware and infrastructure. The proposal will be located within a development envelope of 42,127.47 ha. An indicative disturbance footprint has been identified within the development envelope which has the potential to disturb up to 4,986.4 ha of native vegetation. Renewable energy generated and stored by the Baru-Marnda Renewable Energy Project will predominately be made available for use throughout the Pilbara region via the North West Interconnected System.

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Solar	Figure 2	A total of six operational solar areas have been identified, of which no more than four will be implemented. The maximum extent of native vegetation clearing is 2,937.8 ha, the entirety of which will be long-term in nature.
Wind and supporting infrastructure, including: • Laydown areas • Operations and maintenance facilities • Satellite offices • Borrow pits • Internal access and transmission corridors • Battery Energy Storage Systems	Figure 2	No more than 1,704.7 ha of native vegetation clearing, including 577 ha of temporary and 1,127.7 ha of long-term clearing

• Production Bores		
Access Route	Figure 2	No more than 343.1 ha of native vegetation clearing, including 184.4 ha of temporary and 158.7 ha of long-term clearing. Disturbance to 30.9 ha of existing cleared land will also be required
Isolated intersection upgrades	Figure 2	No more than 0.8 ha of partial vegetation clearing will be required across three isolated intersections
Construction elements		
N/A	N/A	N/A
Operational elements		
Wind energy production	Figure 2	Up to 1,000 MWac
Solar energy production	Figure 2	Up to 500 MW ac
Battery Energy Storage Systems	Figure 2	Maximum capacity TBC
Proposal elements with greenhouse gas emissions		
Scope 1	Native vegetation clearing: 467,577 t CO_{2e}	
Scope 2	N/A	
Scope 3	Turbine lifecycle emissions: 56,064 t CO_{2e} per annum Solar PV lifecycle emissions: 25,185 t CO_{2e} per annum	
Rehabilitation		
Approximately 735.7 ha of the indicative disturbance footprint will be cleared for construction purposes only, and which is proposed to be rehabilitated at the conclusion of the construction phase. The substantial majority of remaining clearing (4,250.7 ha) will be rehabilitated during the decommissioning phase, at the conclusion of the proposal's operational life.		
Commissioning		
N/A		
Decommissioning		
Undertaken in accordance with a Decommissioning and Rehabilitation Plan (or similar), with the aim of returning the land to its pre-development uses where possible, in close consultation with Yindjibarndi Aboriginal Corporation and Yindjibarndi Ngurra Aboriginal Corporation		
Other elements which affect extent of effects on the environment		
Proposal time*	Maximum project life	TBC

	Construction phase	Between 3 and 6 years
	Operations phase	Approximately 50 years
	Decommissioning phase	TBC

** Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C).*

DAMPIER
POINT SAMSON
WICKHAM
KARRATHA
ROEBOURNE
SITE ACCESS ROUTE
SITE ACCESS ROUTE
SITE ACCESS ROUTE
SITE ACCESS ROUTE
SITE ACCESS ROUTE
NORTH WEST COASTAL HWY
GREAT NORTHERN HWY
NORTH WEST COASTAL HWY
GREAT NORTHERN HWY
MADIGAN RD
NORTH WEST COASTAL HWY
MANUWARRA RED DOG HWY
ROE ST
CHERRATTA RD
NORTH WEST COASTAL HWY
B1
M2
M3
Ngurawaana
Little Sherlock River
Harding River
George River
Sherlock River
Peawah River
Yule River
Paddy Creek

LEGEND

- Development Envelope
- Site Access Route
- Jinbi Solar Facility
- Aboriginal Community - Ngurawaana

Indicative Disturbance Footprint

- Wind and supporting infrastructure
- Turbine Layout
- Optional Solar Area
- Optional Solar Area – No Longer Proposed

N
0 2.5 5 10 15 20 km
Scale: 1:500,000 @ A3
GDA2020 MGA Zone 50

ENVIRONMAPS | t: 0406 590 006
Environmental Mapping Solutions | www.environmaps.com.au

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Yindjibarndi Energy Pty Ltd
ENVIRONMENTAL IMPACT ASSESSMENT - SUPPORTING DOCUMENT
BARU-MARNDA RENEWABLE ENERGY PROJECT

PROPOSAL COMPONENTS

Figure 2a

B1
B2
B3
M1
M2
M3
M4
M5
M6
Manuwarra Red Dog Hwy
Ngurawaana

LEGEND

- Main Infrastructure Development Envelope
- Site Access Route
- Jinbi Solar Facility
- Aboriginal Community - Ngurawaana

Indicative Disturbance Footprint

- Wind and supporting infrastructure
- Turbine Layout
- Optional Solar Area
- Optional Solar Area – No Longer Proposed

N

0 0.5 1 2 3 4 km

Scale: 1:100,000 @ A3
GDA2020 MGA Zone 50

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PROPOSAL COMPONENTS

Figure 2b