

# Burrup Common User Transmission Infrastructure

## Proposal Content Document

**Table 1:** General proposal content description

<b>Proposal title</b>	Burrup Common User Transmission Infrastructure
<b>Proponent name</b>	Horizon Power
<b>Short description</b>	<p>Horizon Power is proposing to construct common user transmission infrastructure to enable the supply of grid electricity to the Burrup Strategic Industrial Area (SIA).</p> <p>The Proposal includes construction of an approximately 7 km long, 132 kV overhead transmission line between the Dampier substation and the Burrup SIA, clearing of unsealed access tracks along the transmission line route, an extension of the existing Dampier substation (inclusive of 132 kV switchgear, fencing and ancillary equipment), construction of a new Burrup substation (inclusive of 33 kV and 132 kV switchgear, large scale battery, transformers, fencing and ancillary equipment) and installation of associated electrical infrastructure to facilitate the safe and reliable ongoing operation of the new infrastructure (inclusive of earthing and augmentation of the existing distribution network adjacent Burrup substation).</p>

**Table 2:** Proposal content elements

<b>Proposal element</b>	<b>Location / description</b>	<b>Maximum extent, capacity or range</b>
<b>Physical elements</b>		
Burrup Common User Transmission Infrastructure	<p>Located in Murujuga (Burrup Peninsula) WA.</p> <p>See Figure 2-1 and Figure 2-2.</p>	Disturbance of up to 14.40 ha of native vegetation within an 85.61 ha Development Envelope (DE).
<b>Construction elements</b>		
Burrup Common User Transmission Infrastructure	See Figure 2-2	<p>Disturbance of up to 14.40 ha of native vegetation within an 85.61 ha DE to accommodate the following permanent and temporary project elements.</p> <p><b>Permanent elements:</b></p> <ul style="list-style-type: none"> <li>• Approximately 7 km long 132 kV overhead transmission line;</li> <li>• Approximately 40 poles and cleared pole access pads (40 m x 20 m), and associated pole stays along the transmission line route;</li> </ul>

		<ul style="list-style-type: none"> <li>• Cleared, unsealed access track along the transmission line route;</li> <li>• Burrup substation;</li> <li>• Dampier substation expansion; and</li> <li>• Associated electrical infrastructure.</li> </ul> <p><b>Temporary elements:</b></p> <ul style="list-style-type: none"> <li>• Additional areas required to construct the transmission line;</li> <li>• Cleared access track for the purpose of stringing the transmission line; and</li> <li>• 50 m x 40 m winch sites as required.</li> </ul>
<b>Operational elements</b>		
Burrup Common User Transmission Infrastructure	See Figure 2-2	<ul style="list-style-type: none"> <li>• Operation of the Burrup substation;</li> <li>• Ongoing operation of the Dampier substation (existing site that will be expanded);</li> <li>• Operation of an approximately 7 km long 132 kV overhead transmission line; and</li> <li>• Operation of associated electrical infrastructure supporting the Burrup Common User Transmission Infrastructure.</li> </ul>
<b>Proposal elements with greenhouse gas emissions</b>		
Construction emissions (based on 2-year construction duration):		
1,572 tCO <sub>2</sub> -e	Scope 1	
N/A	Scope 2	
2,144 tCO <sub>2</sub> -e	Scope 3	
<b>3,716 tCO<sub>2</sub>-e</b>	<b>Total</b>	
Operation emissions (based on 50-year operational life):		
36 tCO <sub>2</sub> -e/yr	Scope 1	
1,595 tCO <sub>2</sub> -e/yr	Scope 2	
28 tCO <sub>2</sub> -e/yr	Scope 3	
<b>1,659 tCO<sub>2</sub>-e/yr</b>	<b>Total</b>	
<b>Rehabilitation</b>		

At the completion of each construction phase, temporary construction/laydown areas will be rehabilitated (refer to the Construction Environmental Management Plan [CEMP]). Permanent disturbance associated with the Proposal will include electrical assets and associated infrastructure, access tracks and pole access pads.

**Commissioning**

No commissioning phase is required for the Proposal.

**Decommissioning**

The operational elements of the Proposal will be permanent infrastructure of the NWIS. Should the infrastructure associated with the Proposal be no longer required, the infrastructure will be decommissioned and removed as far as reasonably practical.

**Other elements which affect extent of effects on the environment**

Proposal time*	Maximum project life	The operational elements of the Proposal will be permanent infrastructure (i.e. no maximum project life).
	Construction phase	The construction phase of the Proposal is estimated to take two years subject to approvals.
	Operations phase	The operational elements of the Proposal will be permanent infrastructure.
	Decommissioning phase	Not applicable. Constructed assets will be permanent (i.e. no maximum operational life).

\* 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).