

# Template

## Proposal Content Document

**Table 1:** General proposal content description

<b>Proposal title</b>	Broome Future Energy System
<b>Proponent name</b>	Regional Power Corporation T/A Horizon Power
<b>Short description</b>	<p>Horizon Power is proposing to construct the Broome Future Energy System (FES) in Broome in the Kimberley region of WA (the Proposal). The Proposal will ensure security of energy supply to Broome after the expiry of the current Power Purchase Agreement. As part of this future energy supply, Horizon Power is targeting higher renewables and a reduction in emissions as part of the decarbonisation strategy for the town.</p> <p>The Broome FES will consist of ground-mounted solar PV system, battery energy storage systems (BESS) and a network connection route. The solar PV and BESS will be installed at a site approximately 10 km north of Broome. A network connection route will follow Broome Cape Leveque Road, Broome Highway, Old Broome Road and Fredrick Street to connect the solar PV and BESS to the existing substation on Fredrick Street in Broome. The network connection will either be an overhead or underground electrical distribution or transmission line and will be up to 16 km long.</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>		
Solar and BESS facility Network connection.	<p>The solar and battery infrastructure will be located on Lot 501 on Deposited Plan 414127, Reserve 25716, approximately 10 km northeast of Broome. The network connection route will follow Broome Cape Leveque Road, Broome Highway, Old Broome Road and Fredrick Street to the existing substation in Broome.</p> <p>See Figure 1 and Figure 2.</p>	Clearing of up to 265.1 ha within a 271.3 ha Development Envelope (DE).

Construction elements		
<p>Solar and BESS facility</p>	<p>The solar and BESS facility is approximately 10 km northeast of Broome.  See Figure 1 and Figure 2.</p>	<p>Clearing of up to 265.1 ha within a 271.3 ha DE to accommodate the following permanent and temporary project elements. This will involve clearing of vegetation, topsoil removal and stockpiling, grading and excavations.</p> <p>Permanent elements:</p> <ul style="list-style-type: none"> <li>• Permanent clearing for construction and operation including weed control.</li> <li>• Construction of access roads and tracks.</li> <li>• Construction of water supply bore as required.</li> <li>• Installation of a solar PV and BESS system including ground mounted solar panels, inverters, transformers, cabling, battery containers, substation and other ancillary infrastructure.</li> </ul> <p>Temporary elements:</p> <ul style="list-style-type: none"> <li>• Minor and preliminary works including site surveying and marking, soil and geotechnical investigations.</li> <li>• Temporary lay down areas, ablutions, kitchen, offices, crib room, first aid, water supply and generators.</li> <li>• Concrete supply via either establishment of a temporary on-site concrete batch plant or concrete truck deliveries.</li> </ul>
<p>Network connection route</p>	<p>The network connection route follows Broome Cape Leveque Road, Broome Highway, Old Broome Road and Fredrick Street to the existing substation in Broome.  See Figure 1 and Figure 2.</p>	<p>Clearing of up to 265.1 ha within a 271.3 ha DE to accommodate the following permanent and temporary project elements. This will involve clearing of vegetation, topsoil removal and stockpiling, grading and excavations.</p> <p>Permanent elements:</p> <ul style="list-style-type: none"> <li>• Permanent clearing for construction and operation including weed control.</li> <li>• Installation of either overhead or underground network connection infrastructure.</li> <li>• Construction of access roads and tracks.</li> </ul> <p>Temporary elements:</p> <ul style="list-style-type: none"> <li>• Minor preliminary works including site surveying and marking.</li> <li>• Soil and geotechnical investigations.</li> <li>• Temporary lay down areas, water supply and generators.</li> </ul>

Operational elements		
Solar and BESS facility	The solar and BESS facility is approximately 10 km northeast of Broome.  See Figure 1 and Figure 2.	Operational activities: <ul style="list-style-type: none"> <li>• Operation and maintenance of the solar and BESS facility.</li> <li>• Routine maintenance activities including weed control.</li> </ul>
Network connection	The network connection follows Broome Cape Leveque Road, Broome Highway, Old Broome Road and Fredrick Street to the existing substation in Broome.  See Figure 1 and Figure 2.	Operational activities: <ul style="list-style-type: none"> <li>• Operation and monitoring of the network connection infrastructure.</li> <li>• Routine maintenance activities including vegetation control.</li> </ul>
Proposal elements with greenhouse gas emissions		
Construction elements:		
Scope 1	20,611 tCO <sub>2</sub> e	
Scope 2	0 tCO <sub>2</sub> e	
Scope 3	41,723 tCO <sub>2</sub> e	
<b>TOTAL</b>	<b>62,334 tCO<sub>2</sub>e</b>	
Operation elements:		
Scope 1	21,842 tCO <sub>2</sub> e/yr <sup>1</sup>	
Scope 2	0 tCO <sub>2</sub> e/yr	
Scope 3	3,120 tCO <sub>2</sub> e/yr	
<b>TOTAL</b>	<b>24,962 tCO<sub>2</sub>e/yr</b>	
Rehabilitation		
No rehabilitation will be undertaken as part of the Proposal. The DE is to be permanently cleared, with temporary impacted areas still within the permanent footprint.		

<sup>1</sup> A greenhouse gas (GHG) assessment was undertaken for Broome as two one of Horizon Power’s larger GHG emitting towns. This assessment includes project elements that are subject to this referral, plus additional requirements that could be needed in the future such as new power station infrastructure. This approach was taken to demonstrate that both the towns would be well below the safeguard threshold (100,000 tonnes carbon dioxide equivalent (tCO<sub>2</sub>e) per year).

<b>Commissioning</b>		
There are no environmental impacts specific to commissioning.		
<b>Decommissioning</b>		
Infrastructure is expected to be permanent and become part of the Broome electricity network. The agreement with the independent power producer will likely be 20 years, with options for extension. The asset is expected to be refurbished/replaced as required and continue to be utilised. If the infrastructure should be decommissioned, this would be at end of asset life.		
<b>Other elements which affect extent of effects on the environment</b>		
Proposal time*	Maximum project life	20 years
	Construction phase	The construction phase of the Proposal is estimated to take three years, subject to approvals, from 2027 – 2029.
	Operations phase	20 years
	Decommissioning phase	N/A

*\* 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).*

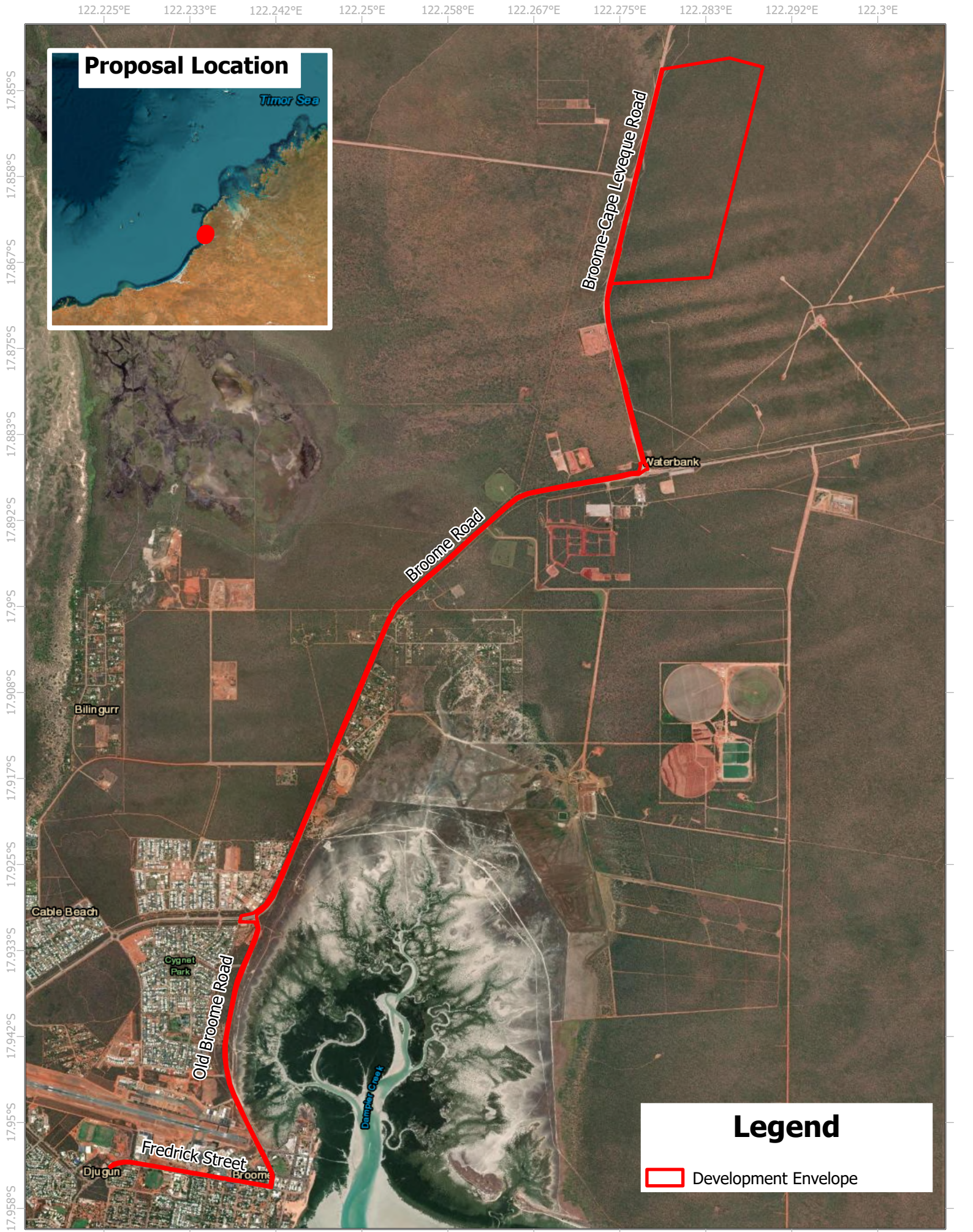
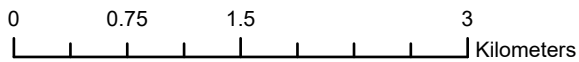


Figure 1 | Proposal Location and Development Envelope



Scale: 1:50,000



All figures have the projection GDA2020

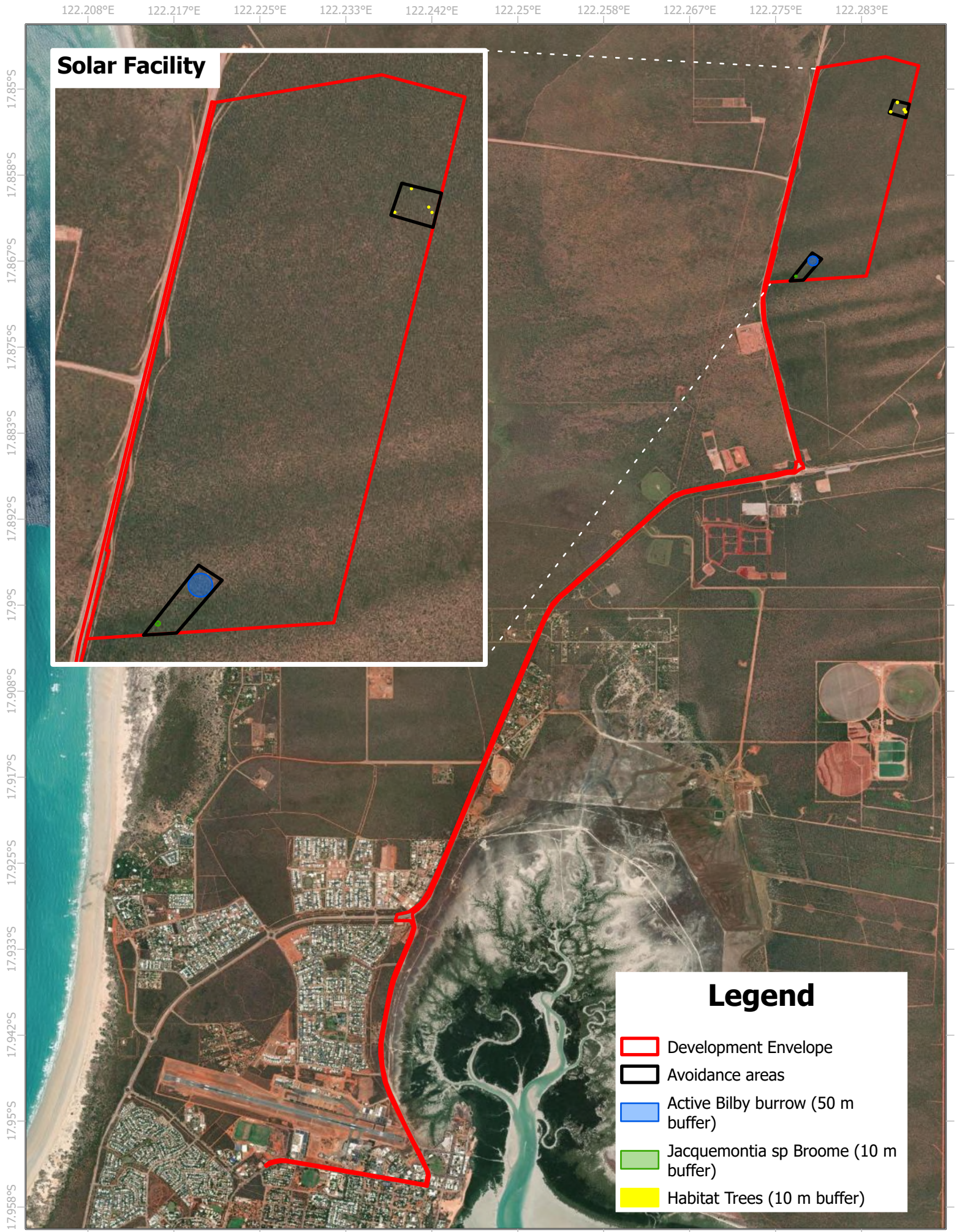


Figure 2 Development Envelope and Avoidance Areas

