

# Template

## Proposal Content Document

**Table 1:** General proposal content description

<b>Proposal title</b>	
<b>Kemerton Power Station Increased Operation Hours</b>	
Proponent name	RATCH-Australia Kemerton Pty Ltd
Short description	<p>The Proposal is to increase the Kemerton Power Station hours of operation from 2,000 hours/annum to 13,800 hours/annum.</p> <p>The construction and operation of the Kemerton Power Station was approved under Ministerial Statement 645 (published 9 February 2004) and the facility has been operating since 2015. The Proposal represents a significant amendment to the operating quantities/descriptions currently approved under Schedule 1 (Attachment 6) of Ministerial Statement 645.</p> <p>The Proposal is limited to increasing the hours of operation of the approved Kemerton Power Station facility and does not involve any clearing, construction, commissioning or development of new equipment or infrastructure.</p>

**Table 2:** Proposal content elements

<b>Proposal element</b>	<b>Location / description</b>	<b>Existing Proposal extent, capacity or range</b>	<b>Proposed max extent, capacity or range</b>	<b>Combined max extent, capacity or range</b>
<b>Physical elements</b>				
Kemerton Power Station extent	Refer to Figure 0-1	Kemerton Power Station (KPS) is located on an approximately 27 ha site in the Kemerton Strategic Industrial Area. The full extent of the existing site represents the Development Envelope.	No change	KPS is located on an approximately 27 ha site in the Kemerton Strategic Industrial Area (KSIA). The full extent of the existing site represents the Development Envelope.
KPS utilities, infrastructure and equipment	All within Development Envelope – refer to Figure 0-2	Utilities, infrastructure and equipment <ul style="list-style-type: none"> <li>• 2 x 130.5 MW Siemens V94.2 open cycle air-cooled gas turbine generators and associated stacks</li> <li>• 4x 1.8 MW black start generators</li> <li>• 1x 2 ML liquid fuel (diesel) storage</li> </ul>	No change	Utilities, infrastructure and equipment <ul style="list-style-type: none"> <li>• 2 x 130.5 MW Siemens V94.2 open cycle air-cooled gas turbine generators and associated stacks</li> <li>• 4x 1.8 MW black start generators</li> <li>• 1x 2 ML liquid fuel (diesel) storage</li> </ul>

		<ul style="list-style-type: none"> <li>tank</li> <li>Supporting buildings and infrastructure (offices, X)</li> <li>Storage sheds</li> <li>Water treatment plant</li> <li>Water tanks</li> </ul>		<ul style="list-style-type: none"> <li>tank</li> <li>Supporting buildings and infrastructure (offices, X)</li> <li>Storage sheds</li> <li>Water treatment plant</li> <li>Water tanks</li> </ul>
<b>Operational elements</b>				
Electricity production	N/A	Approximately 480 gigawatt hours (GWh) per year	Up to 2,108 GWh per year	Up to 2,108 GWh per year
Gas supply (natural gas)		Approximately 6 petajoules (PJ) per year	Up to 25.48 PJ per year	Up to 25.48 PJ per year
Operating hours (natural gas)		Up to 1,800 hours per year	Up to 13,600 hours per year (based on 2x turbine generators running at 6,800 hours per year)	Up to 13,600 hours per year (based on 2x turbine generators running at 6,800 hours per year)
Emissions intensity		667.6 kg CO <sub>2</sub> -e/MWh (based on approximately 1,800 hours per year operation on natural gas.)	623 kg CO <sub>2</sub> -e/MWh (based on 13,600 hours per year operating on natural gas).	623 kg CO <sub>2</sub> -e/MWh (based on 13,600 hours per year operating on natural gas).
Liquid fuel supply (diesel)		Up to 12 megalitres (ML) per year	No change	Up to 12 megalitres (ML) per year
Operating hours (diesel)		Up to 200 hours per year	No change	Up to 200 hours per year
Emissions to air (natural gas)		Oxides of nitrogen (NO <sub>x</sub> ) – 254 tonnes per annum (tpa)	NO <sub>x</sub> – up to 1,915 tpa	NO <sub>x</sub> – up to 1,915 tpa
		Oxides of sulphur (SO <sub>x</sub> ) – 0.0 tpa	No change	SO <sub>x</sub> – 0.0 tpa
		Oxides of sulphur (SO <sub>x</sub> ) – 0.0 tpa	No change	SO <sub>x</sub> – 0.0 tpa
		Particulate matter – 12.96 tpa	Particulate matter - up to 98 tpa	Particulate matter - up to 98 tpa
	Carbon monoxide (CO) – 140.6 tpa	CO - up to 1,063 tpa	CO - up to 1,063 tpa	
	Polycyclic aromatic hydrocarbons (PAHs) – 0.0056 tpa	PAHs - up to 0.0426 tpa	PAHs - up to 0.0426 tpa	
	Non-methane volatile organic compounds (NMVOCs) – 5.38 tpa	NMVOCs – up to 40.7 tpa	NMVOCs – up to 40.7 tpa	
Emissions to air (diesel)	NO <sub>x</sub> – 41.1 tpa	No change	NO <sub>x</sub> – 41.1 tpa	
	SO <sub>x</sub> – 2.292 tpa	No change	SO <sub>x</sub> – 2.292 tpa	

		SOx – 0.146 tpa	No change	SOx – 0.146 tpa
		Particulate matter – 5.48 tpa	No change	Particulate matter – 5.48 tpa
		CO – 15.07 tpa	No change	CO – 15.07 tpa
		PAHs – 0.0114 tpa	No change	PAHs – 0.0114 tpa
		NMVOCs – 0.116 tpa	No change	NMVOCs – 0.116 tpa
Noise emissions		Sound pressure levels < 35 dB(A) at KSIA boundary	No change	Sound pressure levels < 35 dB(A) at KSIA boundary
<b>Greenhouse gas emissions</b>				
<b>Construction</b>				
N/A – no construction activities				
<b>Operation</b>				
Scope 1	320 kilotonnes of CO <sub>2</sub> equivalent (kt CO <sub>2</sub> -e) per year (composition of emissions scope not stated)		Up to 1,345 kt CO <sub>2</sub> -e per year	
Scope 2			Up to 1.37 kt CO <sub>2</sub> -e per year	
Scope 3			Up to 102 kt CO <sub>2</sub> -e per year	
<b>Rehabilitation</b>				
N/A				
<b>Commissioning</b>				
N/A – no commissioning activities				
<b>Decommissioning</b>				
All above ground infrastructure to be decommissioned and removed. Below ground infrastructure to be decommissioned and removed or left in situ.				
<b>Elements which affect extent of effects on environment</b>				
Proposal time	Expected life	2005 - 2030	+ 15 years	40 years
	Project development	N/A	N/A	N/A
	Operation phase	25 years	+ 15 years	40 years
	Decommissioning	Approximately 2 years	No change	Approximately 2 years



Figure 0-1: Regional location

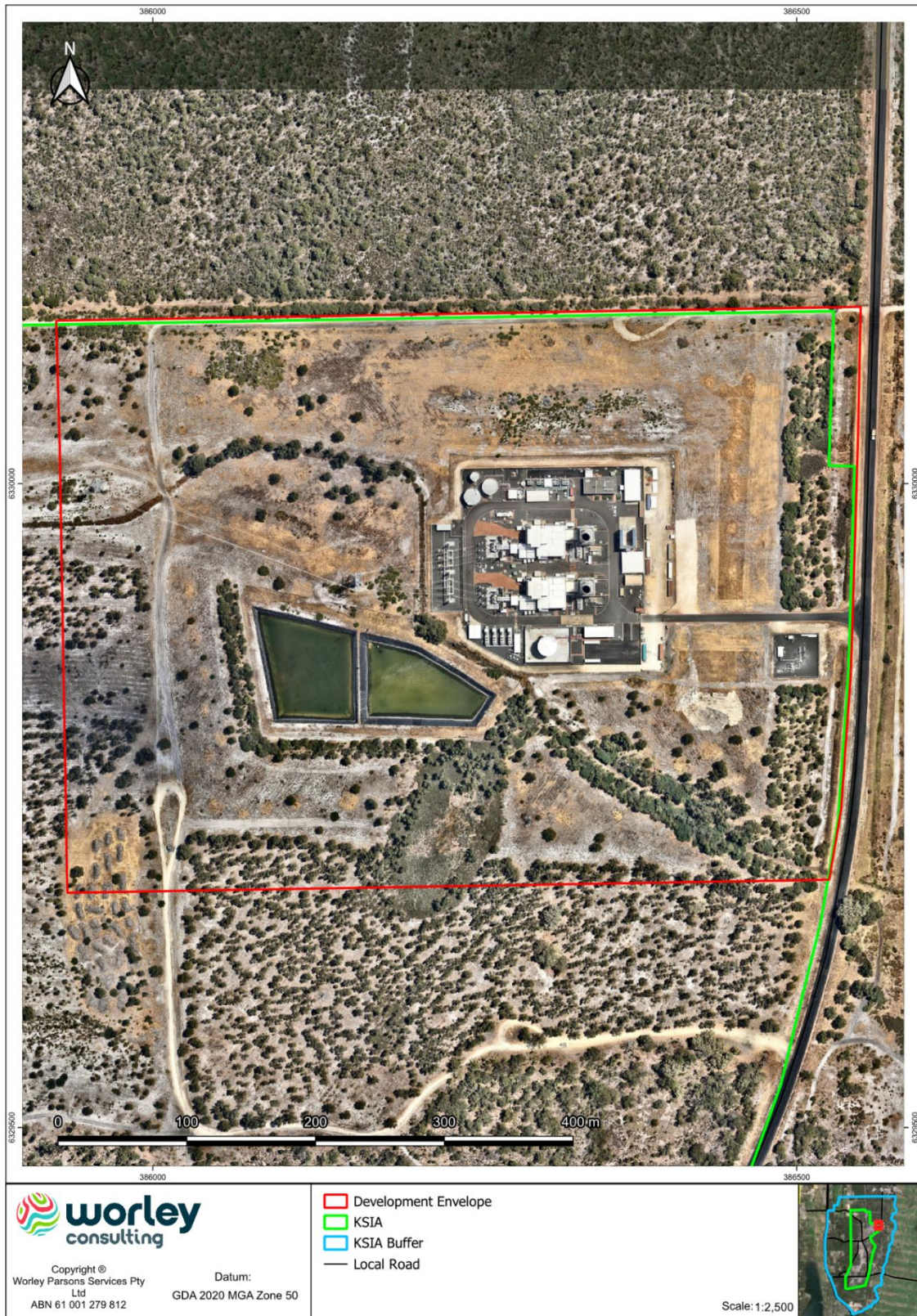


Figure 0-2: KPS location