

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Cataby Power Station
Proponent name	Alinta Energy (Cataby) Pty Ltd, a wholly owned subsidiary of Alinta Energy Pty Ltd (Alinta Energy)
Short description	The Proposal is a gas fired power station - connected to the State owned South West Interconnected System through the Yandin Terminal Substation. The Proposal will consist of one gas turbine and ten reciprocating engines and is designed to generate up to 400 MW of energy during peak electricity demand. The Proposal is to be located on freehold land approximately 135 km north of Perth, within a 43 ha Development Envelope (Figure 1). There will be two exit and entry points from Mimegarra Road, with the western entry/exit point being the main entry for operation and construction. The eastern access road will be used only as an emergency entry/exit point. The Proposal will require a disturbance footprint of up to 23.1 ha. Of this disturbance, approximately 0.3 ha will be undertaken within native vegetation. Natural gas will be primary fuel supply via a purpose-built lateral pipeline from Dampier Bunbury Natural Gas Pipeline. The lateral pipeline will be constructed separately by others and does not form part of the proposal. The Proposal will be located on freehold agricultural land in the Cataby area.

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Gas Turbine	Within the Development Envelope Figure 2	Approximately 0.24 ha
Reciprocating Engines	Within the Development Envelope Figure 2	Approximately 0.51 ha
Associated Infrastructure	Within the Development Envelope Figure 2	Approximately 15.07 ha (inclusive of roads and water management infrastructure)

Construction elements		
Laydown areas, workshops and car parks	Within the Development Envelope Figure 2	A laydown area will be required for the Proposal. Approximately 0.3 ha of native vegetation will be cleared for all activities.
Operational elements		
Gas Turbine	Within the Development Envelope Figure 2	Gas powered turbine with a capacity up to 190 MW
Reciprocating Engines	Within the Development Envelope Figure 2	Reciprocating engines with a capacity up to 210 MW
Fuel Supply (Natural Gas)	Within the Development Envelope Figure 2	Up to 87 TJ/day
Water Supply	Within the Development Envelope Figure 2	Up to 36.5 ML per year from onsite groundwater abstraction from the Yarragadee aquifer
Waste Water	Within the Development Envelope Figure 2	Disposal on site via septic sewerage system.
Proposal elements with greenhouse gas emissions		
Construction elements:		
N/A - Not expected to be material	Scope 1	
	Scope 2	
	Scope 3	
Operation elements:		
Up to 39,546,212 t CO2-e Scope 1 GHG emissions over the life of the Proposal averaging 1,797,555 t CO2-e per year	Scope 1	
N/A	Scope 2	
Up to 1,554,024 t CO2-e Scope 3 GHG emissions over the life of the	Scope 3	

Proposal averaging 70,637 t CO2-e per year		
Rehabilitation		
Once the operations cease, the site will be remediated and rehabilitated to ensure the premises are left in an environmentally acceptable, non-polluting, and safe condition.		
Commissioning		
Commissioning of the gas turbine and reciprocating engines is planned to start 12 months after construction commences and expected to take 3 months to complete. Commissioning will be executed according to the environmental commissioning plan.		
Decommissioning		
Once the operations cease, the site will be remediated and rehabilitated to ensure the premises are left in an environmentally acceptable, non-polluting and safe condition.		
Other elements which affect extent of effects on the environment		
Proposal time*	Maximum project life	The proposal is expected to have an economic life of 25 years
	Construction phase	Staged construction over 3 years
	Operations phase	25 years
	Decommissioning phase	Approximately 1 year

** 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).*



