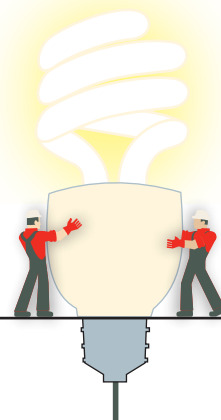


Whitemark Power Station

Bass Strait islands



Whitemark Power Station is located near the township of Whitemark on Flinders island which is situated about 60 kilometres off the north east coast of Tasmania.

The station contains four diesel generator sets. At present 1 x 550kW, 1 x 720kW, 1 x 300kW and 1 x 1200kW providing an installed capacity of 2.77 MW.

Whitemark Power Station and 11kv distribution network was developed in mid 1980's. The output from each generating set is fed into the 11kv distribution network via a 440V/11kV generator transformers connected by 11kV metal-enclosed to supply three overhead feeders with a route length of 300 kilometres.

The station has been designed to run unattended and operates with a control system which starts, stops and loads selected equipment, whilst maintaining supply quality. The annual energy consumption is 4.4GWH.

Two small privately owned wind turbines are connected to the system.



Scheme:		Flinders Island	
Year commissioned:		1984	
Power station structure:		Surface, 27m long x 18m wide including amenities and service book	
Static head:		95 m	
Generating set:		1 x 550kW, 1 x 750kW, 1 x 300kW and 1 x 1200kW diesel generating sets each directly coupled to 3 phase, 50 Hz, Synchronous Generators.	
Diesel manufacturer:	Caterpillar	Generator manufacturer:	Stamford
Rating:	1 x 550 kW 1 x 720 kW 1 x 300 kW 1 x 1200 kW	Rated output:	1 x 750 kVA 1 x 1200 kVA 1 x 450 kVA 1 x 1500 kVA
		Power factor:	0.80
Rated speed:	1500 rev/min	Rated voltage:	440 V

