

Project Profile

Werribee Waste Water Treatment Plant – 115E



Client	Capacity	Location	Operational
AGL	1 MWe	Werribee, Victoria	November 2004

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	1 x 1MWe JGC 320 GS-B.L	Digester Gas

Scope Of Work

Clarke Energy provide AGL with complete operation and maintenance for the installation under a comprehensive Operation and Maintenance Contract with AGL, which includes operation and maintenance of the gas conditioning equipment & H₂S scrubbers.

Principal Equipment

1 x GE Jenbacher JGC 320 GS-B.L at 1065kWe, 50Hz - Engines are coupled to Stamford brushless rotating field alternators.

General Description

The GE Jenbacher generator runs on digester gas with the generator connected, via an integrated 415V circuit panel to step-up transformer. High voltage electricity is exported to the grid from the transformers.

The plant is designed to supply Melbourne Water with its electrical requirements. The engine/container package is designed to maintain full output to and including 40°C. The generators are located in a GE Jenbacher designed ISO 40 foot acoustically lined container that also houses the engine control room in a separate room. The container and remaining plant is enclosed within a fenced compound. The station can be monitored and controlled utilizing the SCADA system.

The GE Jenbacher container package, installed by Clarke Energy was selected by AGL to replace 2 x 630kWe Waukesha engines.



Authorised Distributor
GE Energy