

Project Profile

Glenelg Waste Water Treatment Plant



Client	Capacity	Location	Operational
United Water	1.62 MWe	Glenelg, South Australia	1993

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	3 x 540kWe JMS 316 GS-B.L	Natural/Digester Gas

Scope Of Work

Clarke Energy currently supply parts and provide technical support for United Water.

Generation Capacity

3 x GE Jenbacher JMS 316 GS-B.L rated at 540kWe, 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 a step-up transformer. High voltage electricity is exported to the grid from the transformers. The heat is recovered from the jacket water circuit and exhaust gas heat exchanger to provide hot water for use with the digesters at the treatment plant.

The plant is capable of operation on both digester and natural gas to maximise generation when digester gas is not available.

The plant is also designed to be able to run in island mode when the local network is not available.

All three engines combined have more than 160,000 operational hours between them.



Authorised Distributor
GE Energy