

Project Profile

Manukau Digester Gas Power Station



Client	Capacity	Location	Operational
Watercare Services Ltd	6.8 MWe	Manukau, Auckland, NZ	July 2001

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	4 x 1.69MWe JMS 616 GS-B.L	Digester Gas / Natural Gas

Scope Of Work

Clarke Energy currently provides operation and maintenance for the installation under a comprehensive Operation and Maintenance Contract with Watercare Services.

Principal Equipment

4 x Jenbacher JMS 616 rated at 1,691kWe. - Engines are coupled to AVK 11kV brushless rotating field alternators.

General Description

The GE Jenbacher engines can run on Biogas or natural gas or a blend of both from 0-100%, The blending is fully automatic and controlled by the GE Jenbacher system following gas production from the digesters, or it can be done manually if maintenance is being carried out on the gas plant. When no biogas is available the engines will switch to natural gas automatically in approx 45 seconds allowing uninterrupted generation. The station is fully integrated with the treatment plant DCS system and can be controlled and monitored from anywhere on the plant, it also has the GE Jenbacher Hermes system for remote fault diagnosis and monitoring.



Authorised Distributor
GE Energy