



Project Profile

Redvale Landfill Gas Power Station



Client	Capacity	Location	Operational
Waste Management	4.18 MWe	Dairy Flatg Redvale, Auckland, NZ	2000 and 2004
Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	4 x 1MWe JGC 320 GS-L.L	Landfill Gas

Scope Of Work

Clarke Energy undertakes all scheduled and unscheduled maintenance on this site.

Generation Capacity

4.18 MWe with a total of 52,000 oph, with availability in excess of 98% recorded by the customer. Generation is expected to rise to a total of 16 MWe over the next 3-5 years.

Principal Equipment

4 x GE Jenbacher JGC 320 GS-L.L rated at 1,048 kWe, 50Hz
All engines are coupled to Stamford brushless rotating field alternators.

General Description

The four Jenbacher generators run on landfill gas with each generator connected, via an integrated 415V circuit breaker to a 33kV step-up transformer. High voltage electricity is exported to the grid from the transformers. The generators are located in an acoustically lined GE Jenbacher 40 ft standard ISO container that also houses the control room with the dump radiators and exhaust gas silencers mounted on the roof.

The Station can be remotely monitored and controlled utilizing the GE Jenbacher Hermes system.



Authorised Distributor
GE Energy