



Project Profile

Whitford Landfill Gas Power Station



Client	Capacity	Location	Operational
Waste Management, NZ	3.16 MWe	Whitford, NZ	2002 and 2004

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	3 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

3.16 MWe with a total of 35,000 oph, with an availability of approx 97% recorded by the customer. Generation is expected to rise to a total of 6 MWe over the next 3 years.

Principal Equipment

2 x GE Jenbacher JGC 320 rated at 1048 kWe, 1 x GE Jenbacher JGC 320 rated at 1065 kWe @ 50Hz. Engines are coupled to Stamford brushless rotating field alternators.

Balance Of Plant

The 3 GE Jenbacher generators run on landfill gas with each generator connected, via an integrated 415V circuit panel, to an 11kV step-up transformer. High voltage electricity is exported to the grid from the transformers.

The generators are located in an acoustically lined 40ft standard ISO container that also houses the control room, with the dump radiator and exhaust silencers mounted on the roof.

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



Authorised Distributor
GE Energy