



Project Profile

Redvale Landfill Gas Power Station



Client	Capacity	Location	Operational
Waste Management	9.5 MWe	Dairy Flats Redvale, Auckland, NZ	2000->2008

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy (Aust) Pty Ltd	9 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

Currently the site has a total installed generation capacity of 7MWe. Waste Management in November 2006 placed an order with Clarke Energy for a further 2 sets of the same design. These were delivered in August 2007 taking the total installed generation capacity to 9MWe.

Principal Equipment

9 x GE Jenbacher JGC 320 GS-L.L rated at 1,048 – 1,065 kWe, 50Hz
All engines are coupled to Stamford brushless rotating field alternators.

General Description

The 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.



Authorised Distributor
Jenbacher gas engines