

Case Study



Western General Hospital CHP



Client	Capacity	Location	Operational
Scottish & Southern	1MWe & 1.2MWt	Edinburgh, Scotland	1999

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy Ltd, UK	1 x 1MWe JMS 320 GS-N.L	Natural Gas

SITE DESCRIPTION

The CHP scheme was designed by Cadogan Consultants, Glasgow (Consulting Engineers for Scottish and Southern Energy) and tendered as a package to supply, install and operate the system with a long term Operation & Maintenance contract with availability guarantee.

Western General Hospital purchase the energy generated by the CHP under an agreement with Scottish & Southern Energy Limited who awarded Clarke Energy the project contract.

The engine generates power at 415V and this is then stepped up to 11kV via a transformer before connection to the hospital's main HV switchroom. The plant operates in parallel with the grid at all times.

The outstanding operating performance of 98.2% availability in the first year of operation well exceeded the guaranteed levels and was an indication of the exceptional reliability since proven.

This project is an ideal case study, as the unit operates for 24 hours per day 7 days per week and is monitored for availability by Cadogan Consultants/Scottish & Southern Energy, proving without doubt the outstanding performance you can expect from a GE Jenbacher and Clarke Energy CHP system.



Authorised Distributor
GE Energy