



A combined heat and power Gas Micro Turbine system is delivering immediate savings in both energy costs and carbon emissions at Grantham Meres Leisure Centre.

Risk-free savings

INSTALLED in six weeks, the 65kW combined heat and power (CHP) system is operated by Pure World Energy and has been fully integrated into the site's utility infrastructure. Leisure operator 1Life is now buying the energy produced by the system from Pure World Energy at a rate guaranteed to be lower than energy available directly from the national grid.

The new installation produces up to 900,000 kWh of electricity and 1,600,000 kWh therms of heat per annum. The CHP system has supplemented the leisure centre's current boilers, providing an additional heat source and extending their lifespan, as well as providing operational protection to both heat and electrical demand.

Over the next nine years the leisure facility, operated by 1Life on behalf of South Kesteven District Council, will benefit from estimated savings of £16,000 and a reduction of up to 400 metric tonnes of CO₂ per annum without any capital investment or maintenance costs required.

Grantham Meres Leisure Centre is one of 45 local authority venues operated by 1Life,

one of the UK's largest leisure management companies, and marks the operator's fifth leisure site to benefit from CHP units.

Following a competitive tender in 2010 involving six potential suppliers, Pure World Energy was awarded a 15 year contract as 1Life's preferred energy partner for investment and improvement opportunities across its estate. Pure World Energy also secured a two year agreement with 1Life to deliver a bureau service across the 1Life estate supported by scheduled planned preventative maintenance for building management systems, lighting schemes, VSD units and consideration of other suitable renewables.

The systems and installations have been designed by Pure World Energy to be automatically run or managed remotely to minimise the responsibility of the local teams. In the case of Grantham, this has allowed staff to concentrate on the core business and enabled Pure World Energy's Energy Team to review and efficiently manage access, alarms and control via remote access.

Following the latest installation at

Grantham Meres Leisure Centre, Pure World Energy now has a total of 17 systems operating at 10 leisure centres across the UK.

"Running a leisure facility inevitably comes with hefty energy bills but with the development of exciting new technology there are several simple steps operators can take to drastically reduce their bills and carbon footprint without affecting the quality of service they extend to their customers," says Simon Wright, CEO of Pure World Energy.

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