

CASE STUDY

TYNESIDE CYRENIANS- 10kW MICRO-CHP

BESPOKE DESIGN

Each installation is designed to meet specific client requirements with full computer simulation used to prove all designs.

ENERGY EFFICIENCY

As approved carbon trust consultants we will ensure that the system energy performance is optimised to produce lower operational costs.

PROJECT CDM AND MANAGEMENT

Our engineers and consultants will ensure that all aspects of the design and Installation are fully compliant and all relevant permissions and safety requirements are fully adhered with.

MCS ACCREDITED

ESP is an accredited installer approved under the Micro-generation certification scheme,

CARBONTRUST

ESP are approved carbon trust energy and biomass consultants.



- Full design, install and commission.
- District heating network serving main building and greenhouses
- First Yanmar production unit to be installed in Europe
- Electricity used onsite and for export

The installation of the ENER.G 10Y, 10kWe Micro CHP unit at the North East based charity Tyneside Cyrenians is delivering significant energy and carbon savings to an organisation looking to both reduce energy expenditure and help the environment.



Sited externally, the unit meets all planning requirements including noise assessments and has been installed in a conservation area immediately adjacent to a listed building. The unit uses natural gas to generate power locally, hence displacing the need for carbon intensive grid based electricity.



The unit is integrated with the existing boiler plant and connects into the site electrical distribution. The CHP meets the base load power demand, whilst also generating up to 15,000kWh of electricity for export per year. The heat output from the CHP unit is used to generate domestic hot water and meet base heating loads of approximately 17kW whilst reducing the load on the existing plant.



With 10,000 running hours between services the financial savings associated with the installation of a MicroCHP are predicted to be in the order of £6,000 per year, without considering the offset of potential of carbon tax 's such CRC. These savings are due to the combined high efficiency of the engine (which is some 55% higher than using grid electricity alone), the income derived from the export of spare power and the ability to reduce grid imports.



From April 2010, qualifying Micro-CHP installations will also be eligible for the Governments Feed in Tariff (FIT), whereby generators will receive payment for all electricity produced by the Micro-CHP unit even if used on site.

As part of ESP's full turnkey solution, ESP provided a complete design, project management and installation service, including all elements of the project.



UK Biomass Ltd

The Engineering Support Partnership Ltd, 13 Quay Level, St Peters Basin, Newcastle Upon Tyne. NE6 1TZ. Tel: 0191 265



Service Features and Benefits



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System Requirements

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SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support
Guaranteed Warranty



5432 Any Street West
Townsville, State 54321
Phone 555.543.5432
Fax 555.543.5433

TECHNICAL SUPPORT

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ZERO DOWNTIME

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TURNKEY SOLUTIONS

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