

CASE STUDY

TRIGENERATION FACILITY AT NAREC 'S CHARLES PARSON BUILDING IN BLYTH

BESPOKE DESIGN

ESP projects are 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 to.

MCS ACCREDITED

ESP is an accredited installer, approved under the Government's Micro-generation Certification Scheme.

CARBON TRUST

ESP are approved Carbon Trust Energy and Biomass Consultants.



- Design consultant and principle contractor
- Fully monitored test facility
- Designed to simulate a full range of load conditions
- Co-ordination and full CDM compliance



Newcastle University and the UK's centre for renewable energy (NaREC) called on the cogeneration expertise of ESP to assist with the £1.6 million CHP Trigenation facility at NaREC 's Charles Parson building in Blyth.



Combined Heat and Power (CHP), Trigenation (CHP plus refrigeration / cooling) and Energy Storage are the three main areas of technology. CHP, Trigenation and Energy Storage are believed to offer the best potential to improve energy systems' efficiency and performance, utilise alternative fuel supplies, and reduce CO₂ and other emissions in electrical power generation and in heating and cooling.



ESP undertook design and project management functions on a system that included biodiesel / diesel generation, absorption chillers, gas / water heat exchanger, viscotherm unit and an external load bank, in addition to monitoring and test equipment.



The system was designed and configured to simulate and monitor a wide range of test scenario 's and will demonstrate technologies both individually and integrated with each other, whilst also providing scope for testing systems, components and fuel types at different scales and under a variety of conditions.



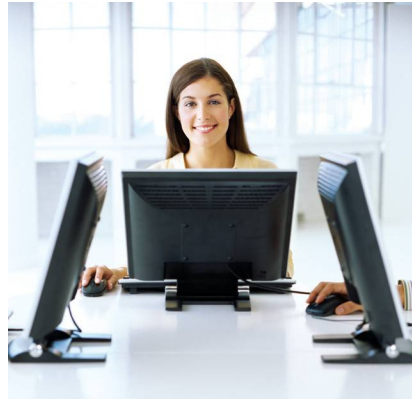
" The new facility will enable the transfer of technical expertise across a range of disciplines to those working in SMEs in a number of industrial sectors. It fits with the overall aim of the ERDF programme in supporting innovation, business support and enterprise, ensuring our region plays a leading role in the rapidly changing energy technology sector, "said One North East Head of European and Skills Strategy, Lesley Calder.



The Engineering Support Partnership Ltd, 13 Quay Level, St Peters Basin, Newcastle upon Tyne, NE6 1TZ. Tel: 0845 519 5912 www.espprojects.com



Service Features and Benefits



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TURNKEY SOLUTIONS

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System Requirements

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SERVICES AVAILABLE

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



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