



Clifton Hospital

Lytham St. Annes



Project Details

Client: Blackpool Teaching Hospitals NHS Foundation Trust

Facilities:

- > 4 wards, with 96 beds in total
- > Parkinsons Disease Clinic
- > Speech Therapy Clinic
- > X-Ray Department
- > Dermatology Clinic
- > Rheumatology Clinic
- > Outpatients department with 4 fully equipped rooms



Goals: Reduce energy and CRC costs, minimise the risks related to equipment and maintainance

Areas of demand:



Electricity - lighting and power for public areas, rooms and hospital facilities



Heat - hot water production for patients and space heating



Air conditioning systems - used to keep rooms and hospital cool

Challenges

- Remove the old CHP unit while maintaining fully operational plant throughout the installation
- New CHP had to be setup to operate alongside the hospital's stand-by generator
- Installation had to be live tested before the handover

Solutions

- Implemented: "EuroSite Power On-Site Utility Solution"
- Inverter equipped CHP technology allows output to match demand and maintain efficiency
- Integrated CHP and stand-by generator control

Installed

- 100 kilowatt Combined Heat and Power (CHP)

"EuroSite Power On-site Utility Solution was perfect. There was virtually no capital cost and all the savings contributed to the overall project." **Paul Jackson - Estates Manager (Engineering) of Blackpool Teaching Hospitals NHS Foundation Trust**

Savings and Benefits



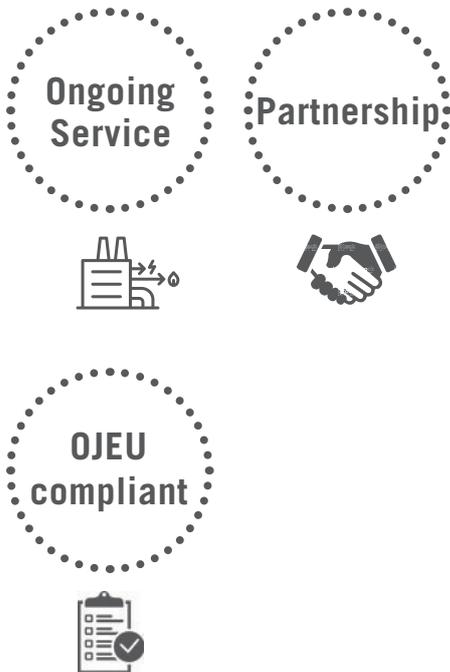
Total electricity generated by EuroSite Power On-Site Utility Solutions



Total heat generated by EuroSite Power On-Site Utility Solutions

* Since June 2014 to July 2020. Contract will run for 15 years.

About EuroSite Power On-Site Utility Solution



Procurement

Although experienced in procuring CHP, the Trust used an expert consultant to assist in drawing up documents and in steering them through an OJEU-compliant procurement process. “We would be happy to recommend his services to other hospitals wishing to follow suit.” said Paul Hamblyn MD at EuroSite Power.

About EuroSite Power On-Site Utility Solution

The On-Site Utility model offered by EuroSite Power provides energy efficient solutions which produce electricity, heat, hot water and cooling by financing, installing, operating and maintaining complete cogeneration and cooling systems tailored to the customer’s specific site requirements.

Benefits include:

- > Guaranteed, instant energy cost savings
- > No capital outlay means no equipment payback period
- > Overall reduction in operating costs
- > No operating expenditure for the equipment
- > An off balance sheet financial solution
- > Increased cash flow from day one
- > Further financial savings by reducing the costs of environmental taxation e.g. Climate Change Levy, CRC Energy Efficiency Scheme and EU ETS

Delivery of Solution

After consulting with EuroSite Power, the Trust decided that the best choice would be a combined heat and power (CHP) system. This system was able to provide the Trust with a 6.5% saving on energy cost for the 15 year duration of the agreement. Every year the system has qualified 100% from CCL. EuroSite provided all capital funds as well as funds needed for operating and maintenance. This means that we essentially underwrote the financial and engineering performance of the solution.

In addition to this, the Trust had recently secured a £1.3 million department of health grant. It was essential to them that this money was spent wisely and that they received value for money. This made our on-site utility the perfect solution. There was virtually no capital cost to the trust, plus they were able to save money in the long run, making this a win-win scenario for both parties.

On-going service

The biggest advantage of working with EuroSite Power is that we assume all responsibility for the operation, maintenance and performance of all system. We pride ourselves on being able to ensure continuity of supply and optimal functionality for all of our On-Site Solutions. EuroSite Power’s maintenance program includes the following services:

- > **A comprehensive helpdesk service**
- > **Strategic and preventive maintenance to enhance equipment reliability and reduce potential failures**
- > **Predictive assessments of the equipment to forecast maintenance work orders**
- > **Statutory maintenance to comply with specific legal regulations**
- > **Long term planning – a complete asset management program that tracks all major facilities**
- > **Regular reporting and annual review**
- > **Responsive fault call-out and efficient facility refinement**
- > **A committed collaboration that seeks to guarantee client objectives**

Contact us today

Set up a site assessment and start your energy cost savings.

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