

Calderstones puts its trust in VPO® and VPO® in its Trust

Why it is interesting: With a carbon footprint of 21 million tonnes of CO₂ equivalent (CO₂e) and a large, aging estate, few organisations in the country face as difficult a carbon challenge as the NHS. The budgetary pressure imposed on the public sector also impacts the NHS, so it is important that Trusts adopt tried and tested measures to tackle the dual challenge of cutting cost and carbon.

Calderstones Partnership NHS Foundation Trust

Annual Savings

kWh:	69,044
CO ₂ kg:	91,942
£:	12,033

Don't take our word for it...

*"Good bang for buck
and easy to install."*

Ron Bury
Estates Manager



**Calderstones Partnership
NHS Foundation Trust**

Further information

For information on this, or any of our case studies, please contact:

020 7262 6004
enquiries@powerperfector.com

It is now mandatory for all NHS Trusts to include sustainability as part of their annual reporting process.

Such visibility is essential as the health service has set taxing targets of a reduction in carbon emissions of 10 per cent by 2015 and 80 per cent by 2050. Both will be a challenge, against a backdrop of a 40 per cent increase in carbon footprint between 1990 and 2009 – meaning the NHS now accounts for a quarter of all public sector carbon emissions in England.

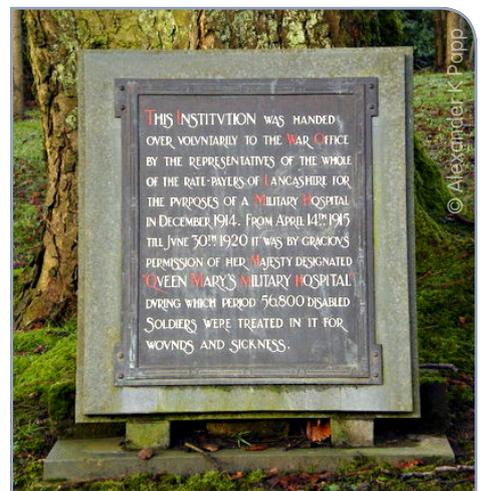
The drive from within the NHS to reduce carbon has been tempered by a lack of capital following the government spending review. It means that taking a chance on the latest energy efficiency fad is no longer an option. Long paybacks and costly maintenance contracts are to be avoided.

Voltage Power Optimisation is now an established, reliable and widely used energy saving technology. Furthermore, its guarantee of performance ensures that the Trust can't be out of pocket.

VPO® was installed at Calderstones Partnership NHS Foundation Trust in April 2010. Since 1993, the Trust has been providing specialist services to people with learning disabilities across the North West and Yorkshire. As the Trust has grown, so has its energy use, Sustainability is now one of the Trust's key strategies and, as such, it is making progress in this area.

"Sustainability - ensuring the long term sustainability of the Trust and contributing to the sustainability of the communities it serves."

Calderstones Partnership, NHS Foundation Trust
Annual Summary 2010/11



Site story

The 500A VPO® unit covers the entire power requirements for the site and allows for future expansion. The trial unit has since been followed up with another three units so that adoption of VPO® into all suitable supplies across the Trust's estate is now complete. Analysis shows that VPO® is helping the Trust reduce its electricity costs by 11.2% every year and will continue to make significant savings across the 50 year life cycle of the VPO® units.

With increasingly limited budgets every NHS needs to look critically at all areas of expenditure. Unfortunately this can sometimes put pressure on frontline services, let alone non-essential requirements. As cost pressures begin to be exerted the Trust is in a better position, having invested in its future through VPO®.

*"Achieving the Government's carbon emissions target for the NHS will prove an extreme challenge for us. Initial assessment of the savings realised from **powerPerfector's** Voltage Power Optimisation is proving far better value for money than many other options we are looking at and is making a worthwhile contribution to the reduction of our carbon footprint."*

Bill Wilkinson, Head of Estates

As well as community based services the Trust provides medium and low security in-patient care. Such security requires 24/7 operations, so the Trust needed a robust technology with an unblemished reliability record. Critical sites such as hospitals, acute care and secure facilities need the 100 per cent reliability that **powerPerfector's** VPO® offers. The design of the VPO® unit is such that in over 180,000 installations worldwide, there have been no failures. No other voltage management system can match this unblemished reliability record.



Working with specialist equipment

Healthcare sites in the UK provide vital frontline services as well as meeting logistical, research and administrative needs. This variety results in a wide range of equipment in use and also legacy equipment from a mature estate. A common question is whether VPO® will work with specialist and sensitive equipment.

With nearly 90 units installed into NHS sites, we can say with confidence that our VPO® units work seamlessly with specialist equipment. Our team of field engineers are trained to inspect and evaluate the effect of optimised voltage on specialist equipment.

Sensitive electronic equipment, such as operating systems for MRI and CT scanners, can also be protected by the power quality improvements afforded by the units which reduces equipment maintenance and replacement costs.

Maintaining the supply

The biggest challenge for any installation on the mains in-come is ensuring that the power supply is maintained at hospital sites while voltage power optimisation units are installed.

This can be accomplished by operating back-up generators onsite or arranging for mobile generation to be brought onsite while final connections are made.

There are a range of case studies and client testimonials available on our website, please visit www.powerperfector.com for further information.