



Omniflex cures NHS Energy Monitoring Headache.

Omniflex successfully install a site wide utilities monitoring system around two hospital sites.



Ian Southerton, Project Manager.

“Omniflex provided a cost effective solution”

Nsipa Siwale
Energy Manager
NHS Foundation Trust.

When Bradford Teaching Hospitals NHS Foundation Trust decided to collect energy consumption data in real-time from over 100 energy meters around their hospitals, Bradford and St Luke's, they chose Omniflex to provide the server and communications infrastructure.

Omniflex successfully, supplied and commissioned an on-site Omnergy data server and 13 metering gateways to communicate with over 100 new and existing energy meters around the two sites.

About the Trust

As one of the leading hospital groups in the United Kingdom, most people recognise the Bradford Teaching Hospitals NHS Foundation Trust through their two teaching hospitals, Bradford Royal Infirmary, and St. Luke's Hospital.

The Foundation Trust is responsible for providing acute hospital care services for the people of Bradford and neighbouring communities. It has around 1,200 beds serving a community of over a million people, has an annual budget of £230 million and employs over 5,000 staff.



Bradford Royal Infirmary

Bradford Royal Infirmary

The Challenge

The NHS Foundation Trust wanted to upgrade the existing energy reporting over the two hospitals to include usage data every 30 minutes reliably over the entire site.

There was a mix of existing intelligent meters and pulse meters installed and that could not be replaced due to the cost constraint.

Furthermore, the Trust wanted to minimise network installation cost by utilising the existing Ethernet backbone around the site, but a limitation of the number of available IP addresses was also a consideration to be taken into account.

Network downtime is a reality and dealing with these network outages without losing the 30 minute updates was also a challenge to be overcome.

The Solution

Omniflex deployed 13 of its Teleterm M2em Meter Concentrator Modules across the two sites, counting pulses from the pulse meters, and polling the smart meters for their data. These modules then send the data every thirty minutes to central server on the site. If the network is down, then these concentrator modules queue the data so that no information is ever lost due to network outages, or server unavailability.

This increased the reliability of the system over conventional polling methods, and reduced the number of IP addresses required to a manageable number for the the IT department.



Bradford Hospital

“The system enables us to monitor our energy usage efficiently”

Nsipa Siwale
Energy Manager – NHS Foundation Trust

The Result

The Omnergy MDAS Server located in the hospital's data centre stores all the metering history on an ongoing basis and makes the data available to the hospital facilities manager via a web interface making it easy to access the data and reports via any web browser.

CSV file exports make this data available for import into the hospital's legacy systems.

“Omniflex provided a cost effective solution for us to gather data from our distributed energy meters/ sub meters from all areas of our hospitals to enable us to monitor and manage our energy usage efficiently. I'm very pleased with outcome.” said Nsipa Siwale, Energy Manager Bradford Teaching Hospitals NHS Foundation Trust

All enquiries to Omniflex



One of the local meter concentrator panels supplied by Omniflex.



One of the hospital's existing sub-metering panels

Omniflex offices

Africa & Middle East
Tel: +27 31 207 7466
Fax: +27 31 208 2058
Email: sales@omniflex.com

UK & Europe
Tel: +44 161 491 4144
Fax: +44 161 491 4188
Email: uksales@omniflex.com

Asia Pacific
Tel: +61 2 8090 2144
Fax: +61 2 8090 2145
Email: aussales@omniflex.com

www.omniflex.com

