

Efficient Power Solutions

Spire Little Aston Hospital



BACKGROUND

Spire Healthcare are one of the largest operators of Private Hospitals in the UK with 37 hospitals. Maintaining a stable power quality is fundamental in healthcare especially on a site with sensitive equipment that is performing critical tests and lifesaving operations. The Spire Little Aston Private Hospital, Sutton Coldfield, is part of the Spire Healthcare network. They have 37 beds, 3 theatres and utilises MRI scanners, CT machines and specialised mammography equipment. The hospital's power supply must function constantly, as even a momentary lapse in power quality, or power system failure is critical.



KEY SUCCESSES

- **Voltage Optimisation plus Regulation (eVO+R) reduces kWh by 7.7%**
- **On Target for CO2 savings of 50.16 Tonnes**
- **eVO+R units to be installed at several more Spire Healthcare sites.**
- **Energy consumption and cost saving figures independently verified.**

THE SOLUTION

An Energy Audit at Little Aston identified that the site would benefit from Voltage Optimisation and Regulation (eVO+R) technology. By regulating the average voltage from 241V to 220V, electrical equipment on site is operated at design voltage, which improves efficiency and life expectancy.



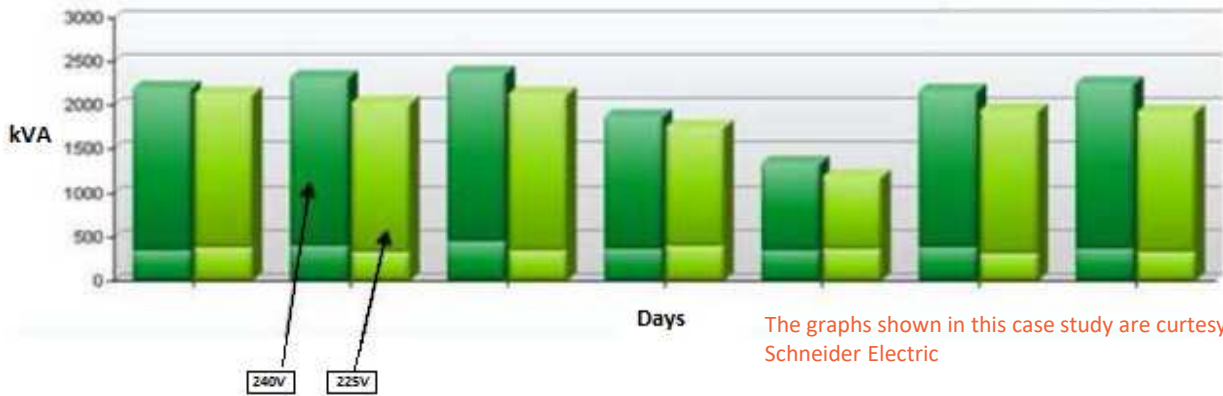
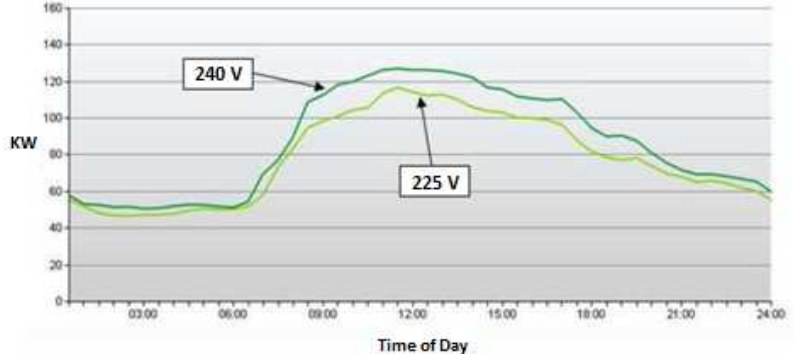
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The graphs shown in this case study are courtesy of Schneider Electric

THE CHALLENGE

Schneider Electric, at the request of Spire Healthcare, were asked to produce an independent report using their M&T system. This report compared the energy consumption and cost before and after the installation of an Efficient Power 225kVA Voltage Optimisation and Regulation unit at Spire Little Aston Hospital.

OUTCOME AND RESULTS

The Schneider Electric report identified a 7.7% reduction in kWh equating to annual savings of £5077.20. The technology is expected to pay for itself in just over 3 years.

“The savings achieved are a great step towards meeting our Carbon Reduction Commitment obligations, and we are looking at the potential of future installations to achieve similar savings across other sites.”

Nigel Sharp
National Engineering and Estates Manager
Spire Healthcare

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