

Spire Wellesley Hospital



KEY SUCCESSES

- Voltage Optimisation plus Regulation (eVO+R™) reduces energy costs by £9,572.64 a year at Spire Wellesley Hospital.
- Consistent electricity supply ensured due to regulated 220V output.
- eVO+R™ units to be installed at several more Spire Healthcare sites.
- Energy consumption and cost saving figures independently verified.

eVO+R™ technology drives down energy consumption and ensures continuity of supply at Spire Wellesley Hospital

PROJECT OVERVIEW

Spire Healthcare's Wellesley Hospital was chosen as a trial site for the installation of Voltage Optimisation plus Regulation (eVO+R™) technology from Efficient Power. This has reduced the hospital's energy usage and carbon footprint, as well as ensuring continuity of supply. Spire Healthcare has since had eVO+R™ units installed at three of its hospitals, with more planned for the near future.

BACKGROUND

Spire Healthcare is a leading provider of private healthcare, with 39 private hospitals throughout the UK.

Wellesley Hospital in Southend, Essex is part of the Spire Healthcare network and offers a comprehensive range of services including surgery, MRI, CT, X-ray and ultrasound scans.



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Efficient Power Solutions

Spire Wellesley Hospital



THE CHALLENGE

Maintaining consistent power quality is fundamental to the activities of Spire Healthcare hospitals, where sensitive equipment is relied upon to perform critical tests and lifesaving operations. Spire Healthcare also considers energy reduction a large priority, not only from a cost-efficiency perspective, but also to reduce its carbon footprint. Efficient Power were asked by Spire Healthcare to evaluate whether their voltage management expertise could not only help ensure continuity of supply, but also to produce savings from reduced electricity usage.

THE SOLUTION

Spire Wellesley Hospital was chosen as a trial site, with a view to rolling out the installation of VO technology at several hospitals in the future.

Efficient Power undertook an extensive energy audit of the site, which identified that the hospital would benefit from Voltage Optimisation and Regulation (eVO+R™) technology, as the average voltage was recorded at 240V. The voltage output was regulated to 220V following analysis of the data logging.

By reducing the average voltage from 240V to 220V means the voltage is in alignment with the recommended operational criteria of equipment used within the building.

RESULTS AND OUTCOME

Schneider Electric, at the request of Spire Healthcare, was asked to independently verify the energy consumption and cost before and after the installation of eVO+R™ technology at Spire Wellesley Hospital.

This evaluation showed annual savings of £9,572.64 in electricity costs and 10.05% in kWh are being achieved. The technology is expected to pay for itself in just over 3 years.

“We have now installed a number of eVO+R™ units within Spire Healthcare hospitals. 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.”

kWh savings:

10.05%

Annual

cost saving:

£9,572.64

Payback period:

38 months

Annual ROI:

31.5%

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