



CASE STUDY


THE ROYAL WOLVERHAMPTON NHS TRUST



200
SYNERGY
POINTS

12
MODULES

2
CONTROLLERS



**LOVATO ELECTRIC POWERS
EFFICIENT HEALTHCARE
OPERATIONS AT THE ROYAL
WOLVERHAMPTON
NHS TRUST**

With nearly 1,000 beds and 10,000 staff across three sites, The Royal Wolverhampton NHS Trust is one of the largest hospitals and providers of acute care in the UK. The Trust is the largest employer in Wolverhampton, and provides services from New Cross Hospital, West Park Hospital, Cannock Chase Hospital, over 20 community sites, and several GP practices.

A person in white scrubs is pushing a hospital gurney down a long, brightly lit corridor. The corridor has a polished floor that reflects the overhead lights. The person is walking away from the camera, and the gurney is in the foreground. The corridor is lined with doors and has a warm, yellowish light. The person is wearing a white short-sleeved shirt and white trousers. The gurney is a standard hospital gurney with a blue logo on the back that says "LOVATO" and "MAGNETIC ORGANIZATION".

THE BRIEF FROM THE TRUST

Initially, LOVATO was contacted to advise on replacing a third-party power factor controller for the critical Heart & Lung Centre at the Trust. However, upon further inspection, it became clear that the old contactors and capacitors also needed to be renewed.

LOVATO'S SOLUTION



LOVATO Electric provided a comprehensive solution for the Trust's energy management needs. The new system comprised 12 DCTL dynamic thyristor modules, controlled by two DCRG8F controllers, offering fast and silent operation of the capacitors.

Building on the success of this initial project, the Trust decided to implement the LOVATO Electric Synergy Energy Management software platform to manage energy performance across the entire hospital complex. This platform enabled the Trust to monitor the main incoming supply quality, as well as usage within different zones

of the hospital, across seven substations, main car parks, and EV charging points.

To integrate existing third-party devices for gas and water, LOVATO employed multiple communication methods, including Ethernet, RS485, and combinations of both. This flexibility allowed for easier installation and cost-effectiveness, as the Trust is a publicly financed entity.



DCRG8F controller



DCTL dynamic thyristor modules



The Trust gained visibility into its energy consumption and could invoice individual clients for their usage.

THE OUTCOME

The LOVATO Electric Synergy Energy Management solution provided The Royal Wolverhampton NHS Trust with a comprehensive energy monitoring and management system. With multiple combinations of DMG power analysers and nearly 200 Synergy licence points, the Trust gained visibility into its energy consumption and could invoice individual clients for their usage.

The successful integration of LOVATO Electric devices, as well as existing third-party devices, demonstrated the flexibility and adaptability of the Synergy software platform. Despite the challenges of incorporating various manufacturers' meters, LOVATO's solution ensured a cost-effective and manageable project for the publicly financed Trust.



To learn more about energy management with LOVATO, you can **download the LOVATO Energy Management brochure here.**

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WHERE PRECISION MEETS ENDURANCE

100 YEARS

Lovato
electric

ENERGY AND AUTOMATION

LOVATO Electric's range of electromechanical and electronic devices are meticulously crafted and tested to ensure the utmost safety and reliability. Backed by a century of Italian precision manufacturing and expertise, our products are designed with precision and built for endurance.

With a substantial UK based stock holding and bespoke assembly, we offer fast delivery of components across mainland UK and Ireland.



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