

# Strategy in Action

## United Lincolnshire Hospitals NHS Trust

### Lincolnshire, United Kingdom

**United Lincolnshire Hospitals NHS Trust (ULHT) is one of the biggest acute hospital trusts in England, serving a local population of 720,000. The Trust worked with sustainability consultant ETL on an Energy Performance Contract (EPC) to procure and appoint an energy supplier, and installed Thorlux SmartScan standard and emergency luminaires across its main hospital sites – Lincoln County, Grantham Hospital, and Pilgrim Hospital in Boston.**

The programme aims to build long term energy resilience and make lasting enhancements to the patient care environment at the three hospitals.

The primary aims of the new lighting scheme are to improve lighting levels and minimise energy usage, through the use of Smart controls, while providing a safe and comfortable environment for the public and staff. The ULHT expects to cut annual carbon emissions by 7,712 tonnes across the three key hospitals.

Claire Hall, Associate Director of Strategic Business Planning at ULHT, says: "Sustainability, energy efficiency, and carbon reduction are at the heart of our management policy. We have already made great strides in reducing our carbon footprint. By upgrading and investing in sustainable technologies, it's our ambition to reduce this by 28% by the end of 2021."

Thorlux Lighting proposed a new installation that would combine the necessary energy savings with an improved quality of lighting

throughout the buildings. This recommendation was based on installing the Thorlux SmartScan monitoring and management system, which incorporates Smart intelligent lighting control. Integral Smart sensors monitor ambient light and presence, and control output to the correct level; they dim and switch when there is sufficient daylight, and illuminate only when the area is occupied. Thorlux SmartScan luminaires have delivered a 91% energy saving compared with the previous lighting installation, resulting in electrical operating savings of £398,570 per annum.

Claire Hall says, "The Trust received a grant from the National Energy Efficiency Fund for £2.6 million, enabling the replacement of around 12,000 light fittings with modern LED fittings with smart technology that means lights turn off after a period of inactivity, saving energy and money for the Trust."

SmartScan automatically controls the emergency lighting test regime, monitoring the status of each luminaire and reporting daily to the SmartScan website. SmartScan emergency luminaires test according to the schedule specified in BS EN 62034:2012 (automatic test systems for battery powered emergency escape lighting) and display current status via a bi-colour LED. The SmartScan website allows users to view current status information as well as full historic data when required. The hospitals recognise that significant savings that can be achieved by removing the task of manually testing thousands of emergency luminaires every month.



The Trust received a grant from the National Energy Efficiency Fund for £2.6 million, enabling the replacement of around 12,000 light fittings with modern LED fittings with smart technology that means lights turn off after a period of y and money for the Trust."

#### **Claire Hall**

Associate Director of Strategic Business Planning at ULHT.



