

Hinchingbrooke Hospital

ELECTRICAL INFRASTRUCTURE REVIEW AND NEW INTAKE MAIN SUB-STATION



Client:	North West Anglia Foundation Trust
Consultant engineer:	Eta Projects Ltd
Quantity surveyor:	N/A
Architects:	N/A
Cdmc:	Eta Projects Ltd
Value:	£750,000
Timescale:	12 months

Description

The North West Anglia Foundation Trust required a full review of their existing infrastructure, with a view to providing options available to the Trust to bring the electrical services up to current standards and to review shortfalls in their existing infrastructure.

Objectives

Having provided the initial review, the Trust developed the capital plan to include the requirement for new operating theatres. This required significant infrastructure upgrade works to mitigate risks and improve resilience for the hospital. This included effectively providing a new HTM compliant electrical supply to support the loading for the new block.

The sustainability aim for this project was to comply with the low energy specification of EU2021 directive-compliant equipment.

Design

The design comprised the installation of new high voltage and low voltage equipment to enhance the existing infrastructure, and provide additional resilience and flexibility. This ensured operational continuity and patient safety for the Trust, in the event of an abnormal operating conditions.

Specific design requirements

The key focus from the Trust's perspective was to provide HTM compliant infrastructure. The design was challenging to achieve given the existing equipment, operational restrictions and site requirements.

Risk workshops were held with the client to review and agree a strategy for dealing with the most pressing issues first, then to bring the entirety of the system to compliance in safe progressions until compliance has been reached.

In order to minimise disruption to the Trust's functionality, the works were delivered over a phased programme, minimising risk, disruptions and downtime for key clinical operational areas.