

# CASE STUDY:

## THE LONGLEY CENTRE

Sheffield Teaching Hospital



**GEOFFREY  
ROBINSON**  
SINCE 1971



### ENERGY CENTRE – New HV Substation, LV Switchboard and Generator

#### PROJECT OVERVIEW

At the end of 2017, Geoffrey Robinson completed the enabling works and build of a new Electrical Energy Centre shared between two NHS Trust sites; Sheffield Teaching Hospital and Sheffield Health and Social Care. The works were won by competitive tender and originally valued at £920,000

The new building was constructed on land between the 2 NHS Trusts. Close liaison, co-operation, and co-ordination between all parties was a necessity, as our engineers had to break into the existing HV infrastructure to enable electrical supplies to be shared and diverted during the works.

To ensure there was automatic electrical back up of critical supplies, Geoffrey Robinson installed a 800KV<sub>a</sub> generator, to maintain essential supplies in the event of National Grid power loss/outage.

The works phase took over 6 months and evidently uninterrupted electrical supplies to both hospitals was a critical requirement. This was achieved by careful planning and phasing/switching of supplies as new infrastructure was energised.

#### SERVICES PROVIDED

- Principle Contractor
- Project management and programming
- Erection and build of Energy Centre
- Installation of 800KV<sub>a</sub> generator and HV/LV generator earth nest
- Lightning protection system
- LV Main Switchboard
- HV/LV cabling, integrating with existing supply
- Lighting and small power
- BMS update and seamless controls integration with existing system

#### CONSTRUCTION PHOTOGRAPHS



#### FOR FURTHER INFORMATION CONTACT:

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