

**CLIENT**

**Hull University Teaching Hospitals  
NHS Trust**

**PROJECT**

**11kV Infrastructure for a 5MWe  
Solar Farm**

**LOCATION**

**Castle Road, Cottingham, Hull**

**SERVICES PROVIDED**

- HV network design
- P28 / G99 reports
- G99 protection design
- Earth design & report
- Civils construction designs
- Ground survey reports
- Installation of 11kV infrastructure (cable installation and civils, transformers & switchgear)
- Test & commissioning

**OVERVIEW**

IUS were contracted by Hull University Teaching Hospitals NHS Trust to install the 11kV Infrastructure for a new 5MWe Solar Farm on land adjacent to Castle Hill Hospital, as part of the trusts plans to become carbon neutral by 2030.

**DESCRIPTION**

IUS provided expert support for the scheme, by designing the HV network, P28/G99 studies and reports, G99 protection study, earthing report, ground surveys & borehole analysis, heat gain calculations, construction designs and all other relevant design requirements. IUS constructed two substations inclusive of HV compounds, LV plant rooms and inverter rooms. The cable/duct installation carried out by IUS, involved excavation by conventional open cut trench, as well as horizontal directional drilling method.

IUS supplied and installed:

1x 2MVA transformer, 1x 3MVA transformer, 2x 11kV ring main units, 2x battery tripping units and relay panels. The IUS scope of service included an in depth and technical G99 protection scheme, installed in compliance with the local Distribution Network Operator, Northern Powergrid specification.

IUS provided a dedicated project team to ensure the day-to-day running of the project was carried out safely, efficiently and to a high quality standard, to the client's satisfaction. IUS also provided our 'in-house' senior authorised person and technical service support throughout the project to ensure safe systems of work were implemented and maintained and equipment/protection was pre-commissioned to the highest of standards.