

CLIENT**Lochend Windfarm****PROJECT****33kV Substation Installation****LOCATION****Caithness, Scotland****SERVICES PROVIDED**

- 33kV Contestable connection work
- On-site private 33kV infrastructure work
- Procurement of equipment
- Supply and installation of substation GRP to DNO standards
- Installation of 33kV switchgear
- Heavy lifting operations
- Protection design
- Interfacing with DNO network and generation control systems
- Testing and commissioning
- Preparation of hand back documentation
- Principal contractor for the connection works

OVERVIEW

IUS completed the electrical construction works associated with the Lochend Wind Farm development. The connection of four 2.3MW Wind Turbines to the grid required a 33kV extension to the Scottish and Southern Energy electrical network. IUS was appointed to undertake the design and installation of the 33kV contestable elements of the connection activity.

DESCRIPTION

The project involved the supply and installation of a specialised multi-part GRP enclosure, which reduced construction costs and on-site installation times. Within the GRP housing, 33kV Schneider Electric WS switchgear was installed with connections made to the extra high voltage cable circuits using Pfisterer terminations.

The design, installation, and commissioning of all associated DC and control systems also formed part of the IUS work scope.