

**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 handback documentation
- Principal contractor for the connection works

LOCHEND WINDFARM 33KV SUBSTATION**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 were 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 onsite 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.

