

## Case Study – Supply, Installation and Commissioning

- ❖ Location: Carryduff, Northern Ireland
- ❖ Turbine: Vestas V39 225kW
- ❖ Client: FRE plc



*Realise Energy Services were approached by our client, FRE plc, to supply and install a refurbished 225kW Vestas V39 turbine near the town of Carryduff in Northern Ireland. This turbine would be an addition to their existing fleet of Vestas turbines in Northern Ireland which were already operated and maintained on their behalf by Realise.*



Realise Energy Services provided a turnkey solution to the client, meaning that all civils works, electrical balance of plant, grid connection, delivery, installation and commissioning of the turbine were supplied, and project managed by Realise.

The turbine supplied was a refurbished Vestas V39 225kW with refurbishment works completed by the original manufacturer, Vestas, at their dedicated facility in Denmark. On completion of the works, the turbine was fully inspected by Realise prior to delivery to site.

Civil engineering works were provided by one of our approved civil engineering contractors, adhering to an approved design. These works were overseen by Realise Energy Services to ensure design standards were met and the completed access road, foundation and crane pad area was suitable for the delivery and installation of the turbine.



Our electrical engineers worked with Northern Ireland Electricity (NIE) to supply, install and commission the necessary electrical balance of plant to meet NIE connection requirements.

The turbine was shipped from Denmark to the UK and transported to site by a specialist haulage contractor. The turbine was then installed and commissioned by our in-house installation team (a combination of industry experienced mechanical and electrical engineers) who have experience of installing over 100 similar turbines across the UK.



Upon completion of the installation, the turbine was function tested and commissioned prior to accreditation by OfGem.

Since commissioning in early 2018, the turbine has been producing circa 600,000 kWh per annum with an availability of well over 95%.

Realise Energy Services continue to operate and maintain FRE plc's fleet of turbines across the UK.

**To find out more contact us on:**

**0800 042 0251**

**[enquiries@realise-energy.co.uk](mailto:enquiries@realise-energy.co.uk)**