



Correll
GROUP

**Electrical
Engineering**

CASE STUDY

Hornsea 2 Offshore Wind Farm: Termination and Testing of both 66kV inter-array and OSS cables

PROJECT OVERVIEW

The Correll Group was delighted that Prysmian approached our organisation to take over the Termination and Testing contract on Hornsea 2.

The Hornsea 2 project was managed by our highly experienced UK team who are based at our HQ in Skelton, in the North-East of England.

SCOPE OF WORKS

- Pre-project meetings
- Evaluation of existing RAMS
- Post Lay Testing (continuity, insulation resistance, Time Domain Reflectometry and Optical Time Domain Reflectometry).

On the offshore assets:

- Stripping the inter-array cables to expose the HV cores and FO cable
- Complete the permanent hang-off
- Cleat the HV cores from the hang-off to the GIS
- Terminate and splice the FO cable into the cabinet
- Terminate three power cores into the GIS
- Complete post installation testing from the onshore substation to the offshore assets (IR, TDR & OTDR)
- Deliver an Inspection and Test Plan for the installed and tested system, forming part of key payment milestone.



Client: Prysmian

Location: North Sea

Year: 2021

ABOUT HORNSEA 2

Hornsea 2, located in the North Sea next to its sister project Hornsea 1, approximately 89km (55 ml) off the Yorkshire Coast in water depths of between 30m to 40m.

Hornsea 2 spans an area of 462 sq km (178 sq ml), and will be the world's largest offshore wind farm when fully operational in 2022.

The wind farm comprises 165 Siemens Gamesa 8.0-167 DD turbines, operating at a nominal power of 8,000kW and have a maximum rotor diameter of 167m. The blades are 81.5m long and have a swept area of 21,900m².

Upon commissioning, the 1.4 GW offshore wind farm is expected to generate enough green energy to power more than 1.4 million UK homes.

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FURTHER INFORMATION

correllservices.com/projects or contact: enquiries@correllservices.com