Correll GROUP

Electrical Engineering | CASE STUDY

Formosa 2 Offshore Wind Farm: Termination and Testing of 66kV inter-array and export cables

PROJECT OVERVIEW

Correll Electrical Engineering were delighted that Jan De Nul once again chose our company to complete the subsea cable termination & testing works on their 3rd contract Taiwan waters.

The Formosa 2 project will be managed through our Taiwan Branch with the HQ in Taipei, and we will be deploying our two local technicians onto the project throughout.

Client: Jan De Nul

Location: Taiwan Straight, Taiwan

Year: 2022

SCOPE OF WORKS

- Pre-project meetings
- Site visits
- Creation of RAMS
- Mock-up trials at Switchgear and TP manufacturers facilities in Indonesia.
- Creation of quality documentation
- Project HIRA meetings
- Post Lay Testing (continuity, insulation resistance, Time Domain Reflectometry and Optical Time Domain Reflectometry).
- Onshore export cable stripping and routing
- Onshore export jointing of the HV & FO cables

On the offshore assets:

- Stripping the export cables to expose the HV cores and FO cable
- Stripping the array cables to expose the HV cores and FO cable
- Complete the permanent hang-off
- Route the HV and FO cable into the TP/WTGS
- 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 (VLF, IR, TDR & OTDR)
- Deliver an Inspection and Test Plan for the installed and tested system, forming part of key payment milestone.

ABOUT FORMOSA 2

Formosa 2 is situated in the Strait of Taiwan, which separates the island from mainland China, 3.8km off Taiwan's west coast, with the furthest point of the project 9.5km from the shore.

The wind farm will comprise 47 Siemens Gamesa 8 MW turbines on top of jacket foundations and will generate 378-MW; enough electricity to power 380,000 households each year, bringing Taiwan closer to achieving its target of 20% renewable generation by 2025.

FURTHER INFORMATION

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