



Correll
GROUP

**Electrical
Engineering**

CASE STUDY

Zhong Neng Offshore Wind Farm: Termination and Testing of 29 66kV inter-array and 4 landfall cables

PROJECT OVERVIEW

The Correll Group, Electrical Engineering Division is pleased to announce that it has been contracted by Seaway 7 to complete the termination and testing of 29 66kV inter-array cables (IAC) and four landfall export cables on Zhong Neng Offshore Wind Farm. The scope of works also includes pre and post engineering and logistical operations.

The project will be split into two campaigns, with the first campaign scheduled for July 2023.

SCOPE OF WORKS

- Onshore Mock up Trial
- Preparation of project specific engineering documentation & procedures
- Planning assistance & coordination of the works
- Post load testing
- Install and connect the earthing cable from hang-off towards the earthing point
- Protection of cable lugs and non-isolated parts which are exposed to the offshore environment with 3M™ Scotchkote™ Electrical Coating FD
- Installation/termination of all required accessories for the completion of the FO cable. Splice box. Splicing (installation of pigtailed and earthing of the tube included)
- Supply of tools, test equipment, consumables, and PPE to perform the termination & test works inside the Transition Piece (TP) / Wind Turbine Generator (WTG)
- IAC, HV & FO Cables - Perform 'Site Acceptance Testing Post Installation'
- IAC, HV & FO Cables - Perform 'Site Acceptance Testing Post-Termination'



Client: Seaway 7

Location: Taiwan Strait, Taiwan

Year: 2023

- Mechanical Completion Certificate and Associated QHSE Documentation
- IAC Termination & Testing (T&T) works
- 2 x 2 TJB Terminations FO Cable
- String testing from sub station and DAC testing support.

ABOUT ZHONG NENG

Located approximately 10km to 17km offshore from the west coast of Changhua in central Taiwan, Zhong Neng is adjacent to Changfang and Xidao offshore wind farm, and spread over an area of 36.54km².

The Zhong Neng Offshore Wind Farm consists of 31 Vestas V174-9.5MW turbines with a combined capacity of 298MW, enough clean energy to power approximately 300,000 Taiwanese households annually.

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FURTHER INFORMATION

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