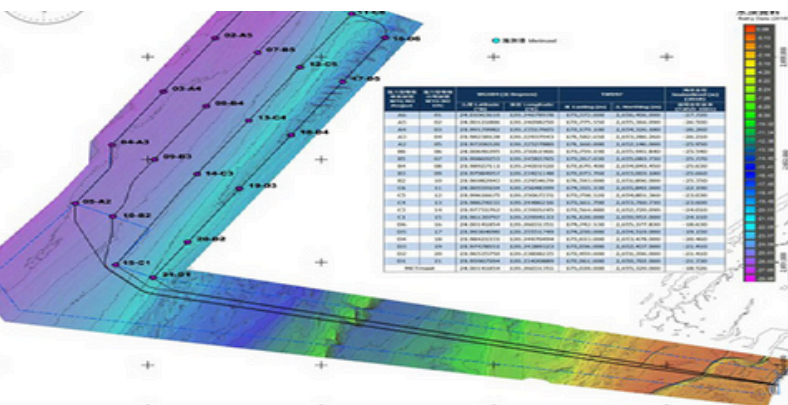


Rotech Case Study

TRS1-LD



Post-lay Cable Trenching - Offshore Taiwan



Project Overview

Rotech Subsea was contracted by Jan De Nul to undertake a two-phase post-lay trenching project at an offshore wind farm in Taiwan, with both phases completed in 2021. This case study focuses on Phase 1 of the works. For this initial phase, Rotech deployed its TRS1-LD (Low Draft) tool, specifically selected due to the shallow water depths in which operations were required. The scope of Phase 1 involved the burial of 21 subsea cables to a client-specified depth of 2.0 metres. This included four export cables and seventeen array cables.



The Rotech Solution

The subsea spread was mobilised on the Willem De Vlamingh and the Grand Canyon II vessels. Deployment was carried out using the vessels' cranes. Rotech Subsea successfully buried 4 export cables and array cables to the required specification. Although the seabed was predominantly soft sand, sections of stiff clay with shear strengths up to 80 kPa were encountered. The TRS1-LD performed exceptionally in these challenging conditions, consistently achieving the desired burial depth. Cable lowering was completed in two passes at an average speed of 4 metres per minute, reaching up to 10 metres per minute in some areas.

Results

Phase 1 of the project was completed successfully, meeting Jan De Nul's burial requirements despite difficult seabed conditions. The performance of the TRS1-LD demonstrated its suitability for variable soil environments and highlighted its ability to maintain high trenching speeds and accuracy. The effective use of Rotech Subsea's solution contributed to the project's efficiency and cost effectiveness.

Project Information

Client: Jan De Nul

Scope: Post-lay Cable Trenching

Water Depth: 8m- 29m LAT

Soils: Soft Sands to Stiff Clay

Vessel: Willem De Vlamingh & Grand Canyon II

