

Rotech Case Study

TRS1



Export Cable De-burial and Reburial - Gwynt y Môr OWF

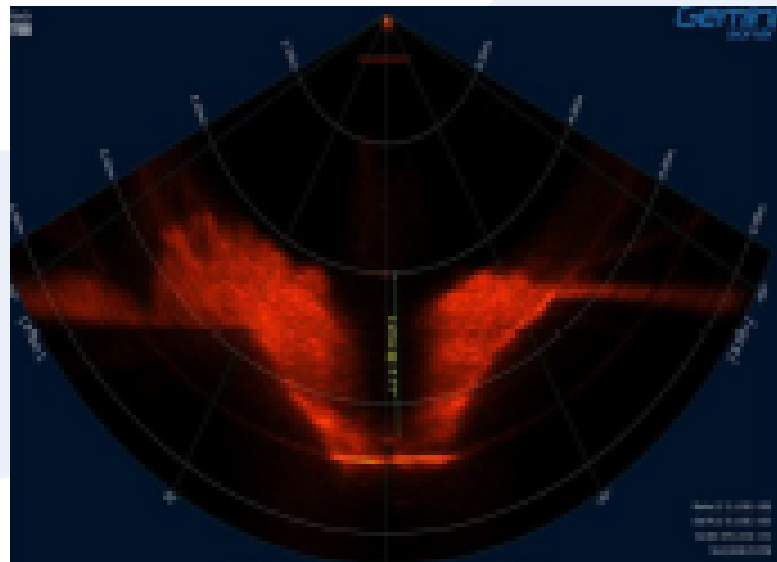
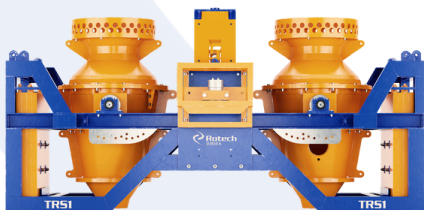


Project Overview

In 2015, Rotech operated on behalf of ABB to carry out cable de-burial operations following the identification of a fault on the 132kV Export Circuit 2 of the Offshore Transmission Owner (OFTO) network. Diagnostic Time Domain Reflectometry (TDR) tests had pinpointed the fault 8.17 km from the West Offshore Platform, where the cable was buried 1.5 metres beneath the seabed in a water depth of 5 metres LAT (Lowest Astronomical Tide). To facilitate the repair, Rotech Subsea mobilised its TRS1 spread of equipment onto the MPR3 DP1 Multicat vessel. The objective was to safely de-bury the cable to allow ABB to access and repair the fault.

The Rotech Solution

The TRS1 tool was deployed with precision and operated under strict guidelines set by the Marine Warranty Surveyor. Efficient de-burial progress was made possible by the TRS1's advanced jetting capabilities and high Controlled Flow Excavation (CFE) velocities. This enabled effective de-burial without compromising safety or operational integrity. Once the cable was exposed, ABB successfully recovered the faulty section and carried out the necessary jointing operations.



Results

Following the repair, Rotech Subsea's TRS1 system was redeployed to post-lay trench the cable ends and joints. This was completed in two passes, achieving a minimum DoL of 1.5m. The operation was executed safely and efficiently, demonstrating the effectiveness of the TRS1 system in both de-burial and post-trenching tasks under challenging subsea conditions.

Project Information

Client: ABB

Scope: Export cable de-burial and post-trenching

Water Depth: 5 metres LAT

Vessel: MPR3 DP1 Multicat

This case study highlights how Rotech Subsea, despite a lack of track record, demonstrated its capability and professionalism by delivering a successful offshore operation—earning the client's trust through performance rather than precedent.