

OWF Cable Repair



Rotech Subsea were contracted to assist with an inter array cable repair on an offshore wind farm. Rotech provided the TRS1 Controlled Flow Excavator (CFE) equipment spread to carry out cable burial operations.

Rotech were to carry out 440m of remedial burial and 140m of post-lay burial to 1.5m Depth of Lowering.

The TRS1 spread of equipment was mobilised onto an offshore support vessel.

Project Information:

Water Depth	-	20 – 30m
Scope	-	Cable Burial
Total excavation depth required	-	1.5m
Soils	-	soft silty sand and soft clay
Current	-	0.6 to 1.4 kts
Sea State	-	1m Hs

The TRS1 was launched on the starboard side using the vessel crane. The TRS1 remained suspended above the cable to complete burial operations. The vessel then then moved along the areas of the cable route that required burial.

Trench depth was monitored real time using a sonar imager mounted to the CFE tool to confirm when the 1.5m DoL had been achieved.

The TRS1 CFE tool has a maximum outlet pressure of 80kPa and a max jet flow of 3400L/s. The silty sands and soft clays expected along the cable route were well within the TRS1's capabilities.

Progress rates:

Rotech completed the burial operations in x2 passes at 4m/min.

Rotech Crew and the vessel deck crew worked very well together with good communication which lead to very efficient tool launch and recovery operations and overall project success. The TRS1 performed as expected and achieved the excavation specifications required by the client."