



CASE STUDY

Remedial subsea cable burial campaign

OEG's subsea team was contracted to deliver a turnkey remedial cable burial campaign for Nexans, a leader in the design and manufacture of cable systems and services. The work scope was executed using OEG's innovative all-electric controlled flow excavation (E-CFE®) technology, **SEAJET**, to execute the campaign, which included trenching and burial of shallow water export cables at an offshore wind farm site in the UK.

Challenge

The project offered challenges with regards to the operational conditions, presenting tight weather windows to conduct work within and fluctuating tidal ranges.

The OEG subsea team successfully demonstrated that the **SEAJET** system delivers up to 100% more power than legacy hydraulic CFE systems currently on the market, even when presented with some of the most challenging conditions considered for this type of seabed intervention works.

The project team reported zero downtime, working in aggressively short high-water tidal conditions and ultra-shallow water depths.

Solution

OEG mobilised the SEAJET E-CFE® system onto a 27m multicat vessel for the completion of the work scope.

The equipment spread included the **SEAJET** tool, electric umbilical winch, power cabin and control cabin. The compact deck space onboard the vessel allowed OEG to demonstrate the adaptability of the equipment spread, which was easily accommodated onto the vessel deck which had limited available space.

The advanced control system built into the **SEAJET** tool allows performance to be monitored and optimised in real-time, ensuring reliability and maximising project uptime. Other benefits include reduced CO2 emissions, eliminating the risk of high-pressure, high-volume oil spills into the marine environment and reduced noise pollution.

By harnessing an all-electric powertrain, E-CFE® commands the same power supply and vessel deck footprint as older hydraulic technology but delivers up to 100% more usable power at the seabed, even in the shallowest of water depths.

OEG successfully delivered the cable burial campaign utilising the **SEAJET** system, achieving trenching depths that were on average 2.5m deeper than existing hydraulic technology, in a single pass of the tool. In some areas, a single pass of the **SEAJET** tool was able to lower the pipeline up to 4m deeper than other CFE technologies.



Testimonial

Geir Korstad, Project Manager at Nexans commented:

"There is no doubt that the SEAJET is a very powerful tool, and we are extremely impressed with the burial results from this campaign. The environmental benefits of the SEAJET were greatly appreciated and the OEG team were highly skilled and professional in successfully delivering the project for us."