

Fugro Secures New Cable Route Survey Contract for Denmark's Energy Islands



Fugro has secured a new contract with Energinet to undertake cable route surveys for the North Sea Energy Island project. The Energy Island will serve as an offshore power plant, distributing up to 10GW of offshore wind to Denmark and other neighbouring markets. Fugro will perform a combination of geophysical and geotechnical services and laboratory testing to provide valuable insight into the

ground engineering challenges along the cable route from the Danish landfalls to the future artificial island location.

Fugro's dedicated survey vessels will mobilize to site in March 2022 to begin the geophysical and geotechnical surveys. These will include remotely operated vehicle (ROV) inspections and shallow geotechnical investigations using Fugro's innovative Blue Snake geotechnical system.

Single-pass Data Acquisition

The Blue Snake integrates cone penetration testing (CPT) and sampling technology to enable data to be captured in a single pass with testing completed consecutively at fixed distances along the cable route. The system integrates a high performance vibrocorer and ten-ton CPT into a single frame with a customized launch and recovery system – minimizing manual handling and improving workability in difficult weather conditions. This innovative technology optimizes data correlation, improving design and engineering for future cable installation works.

"Energinet is looking forward to taking another important step with the Cable Route Survey to the North Sea Energy Island together with the experienced team from Fugro," said Søren Stricker Mathiasen, contract manager for Energinet's work on the future energy islands in Danish waters.

Mathijs Hogerwerf, commercial manager at Fugro, said: "Energinet will benefit from our integrated services through enhanced safety and improved project efficiency. Our vessels, equipment, planning and execution methods meet the needs of such a complex assignment and will also help us manage difficult metocean conditions."

Lidar Buoys

Sven Plasman, Fugro's principal commercial manager, added: "With our team of expert geoconsultants and the latest innovative technology, such as Fugro Blue Snake, we're able to provide clients with the best possible geodata to support the attainment of their sustainability goals."

This Energy Island contract follows on from two geotechnical site investigation contracts as well as a marine site characterization contract awarded to Fugro earlier this year. Fugro is also supporting Energinet with wind resource mapping after installing and operating wind Lidar buoys in both the Baltic Sea and the North Sea.



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