

Offshore wind farm subsea cable monitoring



Client:

DEME Offshore

Location:

Dogger Bank Wind Farm, North Sea

Equipment:

ECG™ holistic cable monitoring system

Proserv is deploying its new, disruptive ECG™ holistic cable monitoring system on phases A and B of Dogger Bank Wind Farm.

- Optimise assets - maximise power transmission and increase efficiencies
- Save OPEX and vessel costs and vessel costs with planned intervention and plan lower cost interventions around weather and resource availability
- Reduce failures and protect against serious events with warnings of developing faults with intelligent monitoring

Dogger Bank:

The largest offshore wind farm in the world

Dogger Bank Wind Farm is located more than 130km off the north-east coast of England and is being delivered by joint venture partners SSE Renewables, Equinor and Eni. SSE Renewables is leading on construction and delivery while Equinor will operate the wind farm on completion. Due to its size and scale, the farm is being built in three consecutive 1.2GW phases; Dogger Bank A, B and C. In total the wind farm is expected to generate enough renewable electricity to supply 5% of the UK's demand, equivalent to powering six million homes.

A new, disruptive solution

Proserv will harness its new, disruptive ECG™ holistic cable monitoring system to deliver this project. ECG represents a step-change in traditional monitoring methods, offering comprehensive visibility across cable assets. Adopting an integrated and scalable approach, it provides real-time

analysis with insights through an intuitive user interface. By using intelligence from all data across an asset, the system is capable of enabling proactive and predictive decision-making, improved utilisation of resources and reduced operational expenditure (OPEX).

Project execution from Great Yarmouth

Proserv's Great Yarmouth Centre of Excellence team will be executing the full scope of supply, with both Dogger Bank A and B systems scheduled to be ready for dispatch in Q3 2022. The extent of the scope of supply will include a cable monitoring system solution for each phase, integrating applicable sensor interrogator technology. The hardware will be complemented by Proserv's innovative HMI design philosophy, utilising Proserv's TIACS software suite.

Endorsed by Equinor

"In another world first for the project, we're looking forward to using this high-tech system to support us in optimising our assets during the operational phase. With vast experience in the oil and gas sector, Proserv are now translating their subsea experience into solutions for offshore wind. We're excited to be supporting them on this journey as their first ECG customer, and we look forward to working with them, alongside DEME, as we continue to build this innovative and world-class wind farm."

– Halfdan Brustad, Vice President Dogger Bank Operations

