

Spotlight on technology



Proserv

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PROSERV TO MONITOR CABLES ON EQUINOR'S HYWIND SCOTLAND FLOATING WIND FARM

Predictive analytics modelling, via Proserv's ECG™ holistic cable monitoring system, to be demonstrated on the UK's best performing offshore wind farm.

Global controls technology leader Proserv is to supply its pioneering holistic cable monitoring system (CMS), ECG™, to Norwegian international energy company Equinor's Hywind Scotland, which in 2017 became the world's first commercial floating offshore wind farm, located off the coast of Peterhead, Aberdeenshire in north-east Scotland.

Proserv is to deliver its CMS to analyse the condition and integrity of export and inter-array cables across the wind farm utilising the fibre optic cores within the cables. The demonstration, focused on ECG's data analytics abilities, is scheduled to extend until April 2024 with installation and commissioning set to take place in Q3 of this year.

ECG represents a step change in traditional monitoring methods, offering comprehensive visibility across cable assets as an integrated, scalable and multi-faceted single package.

The technology has been initiated and driven by Proserv with vital support from its consortium partners Synaptec, a power system monitoring expert, and BPP Cable Solutions, specialists in subsea power cable engineering and management. The Offshore Renewable Energy Catapult (OREC) has also given its support to the group.

Earlier this year, it was announced that Proserv had secured a contract for ECG to be implemented on the bottom-fixed Dogger Bank Wind Farm phases A and B to monitor the condition and integrity of the asset's inter-array cables, representing the technology's first commercial sale. Dogger Bank will become the world's largest offshore wind farm once completed.

Hywind Scotland has a reputation for being the UK's top performing offshore wind farm, holding the best rolling 12-month capacity factor across the nation for the past few years, and currently performing comfortably above 55%.

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