

ECG™ Holistic Cable Monitoring System



Proserv and partners have developed a new and unique system methodology for subsea cable monitoring and fault detection that applies to export and inter-array cables within offshore wind farms.

ECG™ introduces a step-change in traditional monitoring methods, offering comprehensive visibility across cable assets. Adopting an integrated and scalable approach, ECG™ provides real-time analysis with insights through an intuitive user interface. Enabling proactive decision-making, improving utilisation and reducing OPEX costs, ECG™ delivers complete peace of mind.

Proserv understands the specific industry challenges that are related to monitoring cables, cable faults and the cost of failure on cable assets. This knowledge, complemented by our offering of leading controls technology and integrated solutions, best places Proserv to provide this innovative and unique approach to monitoring cables.

Cable failures remain the single largest operational cost in offshore wind. Most power cable faults can be traced back to issues with terminations, where jointing and earthing can be vulnerable to degradation over time. Monitoring sheath currents and temperatures in these terminations and screen connections provides earlier and economical failure warnings for every termination on any windfarm in one, retrofittable online monitoring system.

A proven track record...

proserv



20,000

Production control systems
manufactured



200

Metering control systems
manufactured



6,000

Wellhead control systems
supplied



300

Subsea control
modules installed



40,000

Sampling cylinders
supplied



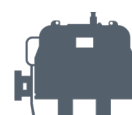
1,000

Production control systems
refurbishments



700

Monitoring, control
and retrieval projects



130

Subsea control
projects completed

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Year	Client	Work Scope	Location
2024	Equinor	HYWIND SCOTLAND - Retrofit delivery of a fully integrated ECG™ system with DTS, DAS and DES with advanced analytics for improved asset performance in the floating offshore wind sector	Northern North Sea, UK
2023-2024	DEME / SSE / Equinor	DOGGER BANK A & B - Greenfield delivery for asset optimisation by combining Proserv's analytical HMI with DTS and DES in a fully integrated solution	North Sea, UK
2023	Wood / Equinor	HYWIND TAMPEN - Successful retrofit delivery of DTS system with Proserv's analytics and HMI for cable monitoring in Hywind Tampen project	Northern North Sea, Norway
2022	Vattenfall	EOWDC, Aberdeen Bay Wind Farm - Retrofit delivery of phase and sheath current monitoring correlated with temperature	North Sea, UK

List of Abbreviations

DTS	distributed temperature sensing
DAS	distributed acoustic sensing
DES	distributed electrical sensors
HMI	human machine interface