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OFFSHORE RENEWABLES AWARD 2025

MJR Power & Automation

Innovative offshore charging system

MJR Power & Automation offshore charging system, as demonstrated on Nobelwind offshore windfarm. This innovative system, operational for the first time at the Nobelwind windfarm, enables vessels to use green, locally generated energy directly. The technology, developed by UK-based partner MJR, and integrated and deployed in collaboration with Parkwind, allows ships to connect to the charging cable and thus stay in place while charging, despite sea currents.

The automatic coupling and uncoupling process and charge management have been extensively tested and found to be successful. With this progressive concept, Parkwind aims to strengthen its position as a pioneer in the offshore wind sector and strive for fully sustainable operations.

The system is designed for both CTV charging up to 2MW and SOV charging up to 8MW and can also be used for supplying offshore power to other conventional offshore vessels on standby, dramatically reducing their emissions from diesel generators.

RWE/SolarDuck

Pioneering demonstration of floating solar windfarms

Merganser, a floating solar pilot project installed in the Dutch sector of the North Sea, aims to demonstrate the structural, mooring and electrical requirements for floating offshore solar farms, and enhance understanding of the requirements for manufacturing, assembly, installation and maintenance of commercial projects.

Merganser has a capacity of 0.5 MW peak and has been installed approximately 12 km off the coast of Scheveningen. The scalable concept consists of six interconnected platforms that can withstand conditions offshore. The floating platforms were connected to a mooring system in a water depth of 20 m. Offshore solar windfarms built in combination with offshore wind projects could open new opportunities for

renewable energy.

Seaonics

Seaonics Ocean Charger

Seaonics Ocean Charger is a safe and efficient means of charging vessels offshore, with a proven concept for connecting, charging and handling an 11 kV high-capacity charging cable from any offshore structure to a vessel.

Connecting vessels to the offshore windfarm's power grid for regular battery charging eliminates the need for additional energy sources. According to the developer, Seaonics Ocean Charger saves the time and energy needed to return to port to charge. Additionally, owners can experience lower operating costs with battery-powered service operation vessels versus comparable diesel- and alternative fuel-powered vessels because electricity supplied by the offshore windfarm is less expensive and engine maintenance requirements are reduced.



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<u>Winlet</u>

Battery-powered trolley eases supply of maintenance equipment

Winlet ErgoMover Go Wireless trolleys to transport equipment across gangways from SOVs to wind turbines (supplied by Hird Sales). The battery electric Winlet trolleys, which are operated via a hand-held remote-control unit, are used to move essential maintenance equipment and materials between supply ships and the offshore wind turbines.