



# Abb marine energy storage systems

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ABB has secured a propulsion single source vendor contract with Washington State Ferries (WSF), the United States' largest ferry system, for five new hybrid electric vessels

Van Oord's newbuild offshore wind installation vessel Boreas will benefit from space and weight savings enabled by ABB's equipment allowing the vessel to transport heavier loads

ABB MarineCare to secure safe and sustainable operations of PONANT's polar exploration cruise vessel Le Commandant Charcot. Service package includes continuous remote diagnostics, maintenance services and spare parts provision.

Integrated ABB power and propulsion package win from Colombo Dockyard brings milestone Azipod® installation for advanced cable-laying and repair vessel that will support offshore wind farms.

ABB will deliver an integrated electric propulsion system and advanced vessel control technology for Crowley's pioneering eWolf tug, built for sustainable and safe operations at the Port of San Diego.

With the recent rise in the number of hybrid and fully electric vessels, battery power is establishing itself as a real force for change towards more sustainable and energy efficient operations. However, the full benefits of this technology can only be achieved with an advanced power management system on board.

With the increasingly stringent environmental regulations, shipowners and operators are facing the pressures of switching to more energy-efficient operations. With optimization-based power management control strategies, forward-thinking owners can unlock efficiencies that not only help achieve more sustainable operation, but also reduce operational costs.

ABB has optimized the safety and environmental credentials of Louis Dreyfus Armateurs' wind farm Service Operation Vessel (SOV) by installing Onboard DC Grid power distribution to enable the cost-efficient integration of batteries.

With ABB's power, control, distribution and automation solutions, specialized cable layer NKT Victoria achieves up to 60 percent fuel saving when compared with cable-layers in its class operating in the market.

ABB's containerized energy storage solution is a complete, self-contained battery solution for a large-scale marine energy storage. The batteries and all control, interface, and auxiliary equipment are delivered in a single shipping container for simple installation on board any vessel. The standard delivery includes



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Peak Shaving Level power seen by engines and offset need to start new engines. Benefits include reduced fuel consumption and engine maintenance. Enhanced dynamic performance Instant power in support of running engines. Benefits include reduced fuel consumption and enabler for "slower" sources like LNG and fuel cells. Spinning reserve Backup power to running generators. Benefits include improved safety and reduced fuel consumption and engine maintenance.

ABB has responded to rapidly rising demand for low and zero emissions from ships by developing Containerized ESS – a complete, plug-in solution to install sustainable marine energy storage at scale, housed in a 20ft high-cube ISO container.

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