

GE Vernova's Power Conversion business showcases SeaJet* 1.5 to 4 MW podded propulsion system for operations in harsh sea ice conditions, at CANSEC

- GE Vernova's Power Conversion business will showcase vessel electrification technologies that are helping the world's leading navies and coast guards to energize their missions with high levels of power-sharing flexibility.
- SeaJet* electric podded propulsion solutions bring high efficiency and maneuverability to ship operations in harsh sea ice conditions, improved efficiency in transit and remarkable bollard pull.
- GE Vernova's electric ship power and propulsion solutions have demonstrated their robustness across naval, coast guard, transport and offshore vessel applications.

This week, GE Vernova's Power Conversion business joins representatives from Canada's government, coast guard, international delegations at CANSEC, to showcase technologies that are helping the world's leading fleets to energize their missions with energy-efficient electric power and propulsion.

Through integrated electrification, energy management, automation and control, power in the ship's electric grid can simultaneously supply high-energy mission systems and electric propulsion. Energy-efficient architectures also serve as an effective way to integrate new, cleaner, energy sources as they emerge, and host digital technologies to implement more autonomous systems.

Featured in the solutions that Power Conversion is showcasing at CANSEC is SeaJet* range of [podded propulsion systems](#), which brings efficiency and maneuverability to operation in harsh, sea ice conditions. Power Conversion is now launching SeaJet* power range from 1.5 MW to 4 MW, using low voltage (<1000 V) ideal for smaller ships.

With high steering capability, SeaJet* provides very good transit and bollard pull performance. Powered by proven technology, including Power Conversion's



SeaPulse* low voltage DC drive system and a high torque-density Advanced Permanent Magnet Motor (APMM), the pod eliminates the need for hydraulic systems, thanks to the integration of an electric steering system with electrical actuators and intelligent control system, enhanced cooling system, Eco-sealing technology and advanced bearing technology in a compact package. The system also embeds Power Conversion’s digital Asset Performance Management (APM) technology, helping to enhance availability, reliability and maintainability.

The benefits of SeaJet* for owners and operators include increased propulsion system efficiency, reduced total installed power generation, reduced total fuel consumption and exhaust emissions, reduced noise and vibration levels and enhanced maneuverability. For shipyards, the benefits include flexibility in machinery arrangement with fewer components, a simplified hull form through the elimination of shaft lines and rudders, and reduced equipment installation time and cost.

Moises DelToro, Marine Leader for North America at Power Conversion, explained: “There is increasing investment in polar exploration and arctic routes for shipping but also in polar region protection. The first-generation pods produced by GE Vernova have demonstrated their robustness across naval, merchant and offshore applications for decades, and the new generation is gaining traction with owners building Arctic tonnage that require rugged, ice-class performance.”

DelToro continued: “SeaJet* will play a key role in serving this growing demand, including new applications such as expeditionary passenger vessels.”

Visit Power Conversion at booth 1533

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About GE Power Conversion



GE Power Conversion, an integral part of the GE Vernova portfolio of energy businesses, applies the science and systems of power conversion to help drive the electric transformation of the world's energy infrastructure. Designing and delivering advanced motor, drive and control technologies that help improve the efficiency and decarbonization of energy-intensive processes and systems, helping to accelerate the energy transition across marine, energy and industrial applications. GE Power Conversion is at the heart of electrifying tomorrow's energy.

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