

GE Power Conversion reports demand for its electric ship solutions to future-proof the latest generation of naval vessels

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This week, GE Power Conversion convened with the world's leading navies and industry at IMDEX Asia, to showcase its electric ship power and propulsion solutions.

IMDEX represents a respected platform within the large Asia Pacific maritime sector in Singapore, where GE Power Conversion showcased electrification technologies that are helping the world's leading navies to energize their missions.

GE Power Conversion has an industry-leading, complete range of electric ship technologies, and decades of naval sector experience with 13 different navies around the world.

Solutions range from full naval-specification, high voltage electric grids for power and propulsion, to cost-effective hybrid electrification options.

Through integrated electrification, energy management, automation and control, power in the ship's electric grid can simultaneously supply high-energy defense systems, and

propulsion. Energy-efficient electric 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.

GE Power Conversion is reporting increased intensity of customers wanting to engage to understand how they can best use energy across their fleets to create a capability advantage. The business says there is a growing recognition that electrification is critical to new generations of networked mission systems and the right architecture to 'plug-in' new energy sources.

Shaopeng Ji, Commercial Operations Leader- Asia Pacific, at GE Power Conversion explains: "In an emerging new naval era, fleets need to be more mission configurable, highly capable for military advantage, adaptable for technology insertion and affordable. Increasing power demands on vessels means that more customers are seeking help in future-proofing their ships for higher energy needs, partnered by a roadmap to emissions reduction."

GE Power Conversion brings capability from having extensive electric and hybrid naval ship system references, leading in applications from the largest, complex warships to the latest support ships. Expert services offerings and full scale land based test and emulation facilities are structured to provide a complete life cycle solution, reducing risk, increasing reliability and helping to optimize operation of assets.

With three decades of expertise of providing power and propulsion capability for the world's navies' largest combat vessels (GE's technology powers more than 90% of the UK Royal Navy large vessel fleet, including Queen Elizabeth Class, Type 45 and Type 26 vessels), GE Power Conversion is now seeing an increased customer demand for smaller combat vessel solutions. By combining extensive commercial electric drive ship expertise with deep domain naval and coast guard experience,

GE Power Conversion provides cost-effective electrification solutions for light combat corvettes and offshore patrol ships, undertaking reconnaissance and submarine deflection missions.

Shaopeng Ji continued: "The Ship's Electric Grid is hugely versatile, and electric drive ships are just as suited to smaller, lower voltage, more commercial-spec ships in naval and coastguard fleets as to the biggest, higher voltage combat ships. Both are able to combine power for propulsion and on-board equipment in one system. Electric and hybrid power systems are viable choices for modern, multi-role ships seeing increased mission system power demand but needing sustainable, energy-efficient performance for patrol duties."