

ELECTRIC PROPULSION SYSTEM INTEGRATOR

Designing, procuring, and integrating customizable, hardware-agnostic electric propulsion systems for the U.S. Navy, ensuring adaptability and lifecycle support

MISSION NEED

In order to meet mission needs, the U.S. Navy requires fuel efficient, flexible power and propulsion systems.

Today's warships are being designed with comprehensive platform automation capabilities that allow them to achieve unprecedented levels of ship survivability and operational effectiveness. New hybrid propulsion and power generation systems are being designed to evolve with changing platform mission sets and adapt to future technologies. These technologies require the development and integration of advanced control systems that can evolve right along with the engineering and operational needs and incorporate advanced capabilities to help optimize operational effectiveness and contribute to reduced manning trends. These systems need to be sustainable and at a cost-point that will maintain Machinery Control System (MCS) operation and evolve throughout the life of the platform.

SOLUTION

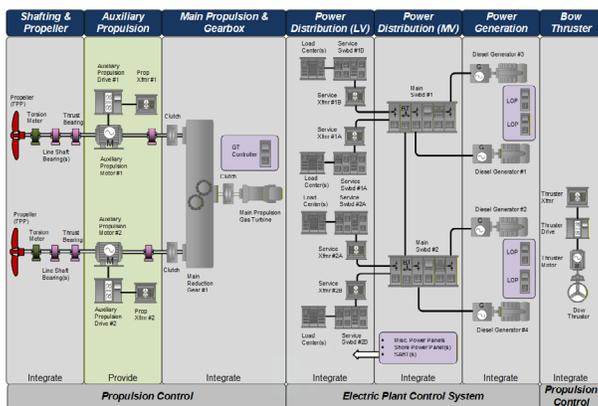
As an industry leading Electric Propulsion System Integrator (EPSI) provider, L3Harris works closely with the shipbuilder to identify powering requirements and space requirements to select the appropriate EPMs, VFDs and transformers. L3Harris provides end-to-end propulsion solutions, from equipment selection and procurement through testing and implementation, tailored to each vessel's specific power, propulsion and mission requirements. These solutions are hardware-agnostic, enabling customers to select their preferred suppliers or leverage L3Harris' trusted partner network to tailor solutions that align with specific requirements, budget and schedule. By integrating cutting-edge technologies such as condition-based maintenance into a lifecycle-supportable system, L3Harris delivers adaptable capabilities that evolve with the platform throughout its operational life.

BENEFITS

- > Over 25 years of experience in power and propulsion control and integration
- > Capability Maturity Model Integrated Level 3 since 2003 — recently re-appraised in 2025
- > Integrated condition-based maintenance
- > Low non-recurring engineering cost due to reuse
- > Detailed requirements ensuring development expertise
- > Power system simulation capability
- > Supply of EPM, VFD, transformers, as well as integration of SSDGs and switchboards
- > Ability to ruggedize commercial components to meet environmental/shock requirements

PLATFORM PEDIGREE

- > Howard O. Lorenzen T-AGM 25
- > DDG-51 Hybrid Electric Drive (HED)
- > Constellation Class FFG 62
- > Explorer Class T-AGOS



EPSI Scope

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