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HydroComp, Inc. Embodies Smart Sustainability

Enabling naval architects to prioritize sustainable initiatives in the beginning of the design phase means lasting, positive environmental impact

The time to affect the greatest change to thwart environmental pollution is during the initial design of a vessel. Unfortunately, naval architects currently do not have appropriate design-side tools that allow for the investigation of innovative devices or components within a ship's *Vessel-Propulsor-Drive* (VPD) system. HydroComp is now developing innovative software tools to change this.

As we are naval architects, software developers and propeller specialists, we see the needs of industry and are addressing these specific needs. HydroComp is creating a software tool that is universally available and builds upon our HydroComp NavCad and PropElements programs. NavCad already includes a number of energy and emission-saving components, such as support for LNG, dual-fuel engines and contra-rotating propellers, as well as prediction of energy use performance indicators for full duty-profile operational scenarios. This framework allows a plug-and-play of components and sub-systems. Special-interest models (such as Underwater Radiated Noise and sail-assist) and even emerging sub-systems such as hybrid and all-electric drives are being added. We are collaborating with universities around the globe to assist us with these models.

Innovative systems which yield fuel-related cost savings while protecting sensitive marine mammals are long overdue. HydroComp has been committed to providing these accessible, comprehensive technologies for over 34 years. From new builds to retrofit projects, HydroComp provides performance models so every project can be financially viable and environmentally responsible.

Let's Put Smart Sustainability into Ship Design!

About HydroComp

Since 1984, HydroComp has been a leader in providing hydrodynamic software and services for resistance and propulsion prediction, propeller sizing and design, and forensic performance analysis. Through its unique array of software packages and services, HydroComp serves over 700 naval architectural firms, shipyards, yacht owners, ship operators, propeller designers, universities and militaries around the globe.

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