

Energy efficiency: Barillec marine promotes the VarShaft® system innovation in Amsterdam at E&HMarine world expo

On the occasion of Electric & Hybrid Marine World Expo in Amsterdam, Barillec will focus on its latest innovation VarShaft® system, whose first prototype is now available in its showroom in Concarneau. VarShaft® has been especially developed to improve energy efficiency of fishing boats and other service vessels. Many French shipowners already showed interest into this innovative concept that allows them to improve the energy efficiency of their boats, by reducing the fuel consumption up to 15%.

Barillec marine proposes to ship-owners, especially from the fishing industry, an answer to the economical and environmental challenges of the fleet modernization and renewal. Barillec did announce the development of this new marine apps on autumn 2015. Feedbacks were very positive and requests were made. Currently, several projects are being studied, particularly in cooperation with naval architects, to integrate Varshaft® in the design of innovative vessels.

To answer the demand and to propose a standard system that could work in many different configurations – available power, fixed or variable pitch, etc. Barillec marine has built, on its own account, a prototype to bench the performance of the system. The first unit of VarShaft® can deliver 60kVA of electrical power from 700 rpm to 2 200 rpm.

The aim of VarShaft® is to supply an efficient, stable and qualitative electrical network, no matter of propulsion engine speed. By using electronic drives, a variable speed generator can deliver a fix voltage and frequency to the network. While meeting professional needs, propulsion engine runs more efficiently and burns less fuel. Thus, VarShaft® reduces significantly greenhouse gases emissions, contributing to reduce the environmental impact.

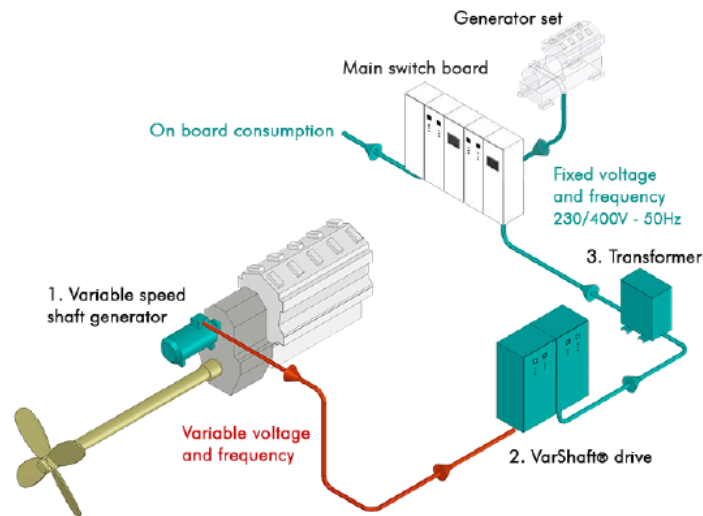
VarShaft® allows to use a fixed pitch shaft while offering enough power for a whole alternating current network. It provides power for traditional devices (pumps, hydraulic, chiller, etc.) that could be wisely fitted. It becomes easier to use and control the loads: this system avoids the stacking of auxiliary coupled on propulsion engine power take-off, always complex, hardly accessible and less efficient.

For VarShaft® design, Barillec marine takes advantage of its expertise in electrical energy production, conversion and storage. It uses technologies and equipment already proven in other projects for boats that are currently sailing. Among those, the solutions used for Fish2EcoEnergy project lead to a reduction of 20% of the fuel consumption.

In favorable conditions for investment in new boats and equipment VarShaft® is an effective and reliable answer to energy consumption and optimization matters. While fuel prices are fairly low, return on investment is estimated between 24 and 48 months, depending on projects.

To know more about VarShaft® system and prototype meet the staff of Barillec marine at Electric & Hybrid Marine World Expo, booth 3070.

VarShaft Concept®



About Barillec:

Almost 60 years of a global expertise in marine electricity and electronic; and years of development in creative, innovative marine apps, at the cutting edge of technology.

More than 200 technicians and engineers with 80 for the marine department, are available all over the world for new construction projects, repair, and maintenance for all types of vessels.

Turnover: 39 M€ in 2015

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