



# HORUS

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**NATIONAL PATENT N. 0001397554 - INTERNATIONAL PATENT PCTIB2010055929**

**Horus** is one innovative technology patent about revolutionary electric propulsion system for boats to "zero impact" applicable to all sectors of marine, lake and river and is based on the knowledge that there are no alternatives to the use of fossil fuels for marine propulsion.

**HORUS** technology is an electric propulsion system characterized by the renewable energy of next-generation solar panels and high-performance batteries of last generation too. This system has found its first application of study and development on a 24mt mono hull designed by experts hands of Bi.Nav Technicians, aggressive lines, but also a bit 'retro and futuristic high-performance', resulting in a considerable de facto autonomy Navigation 8 / 10 hours at a cruising speed of about 10 knots with **ZERO emissions of harmful gases** into the atmosphere, **ZERO noise, ZERO vibration, ZERO consumption** and recharge while you sail - hence the patent peculiarity.

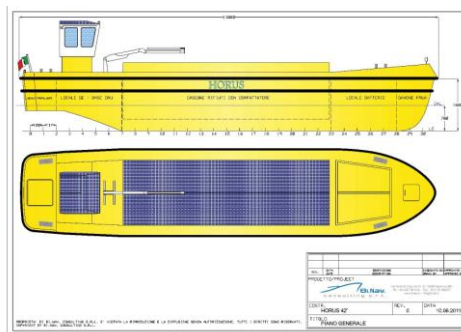
A system was been designed to be installed in new and existing vessels, or semi-displacement hulls to set no limits in size, but also as a hybrid system for planning hulls with jet propulsion and for carry cargo ships.

**This is a patent that will revolutionize the concept of sailing, offering enormous practical advantages and absolute savings.**

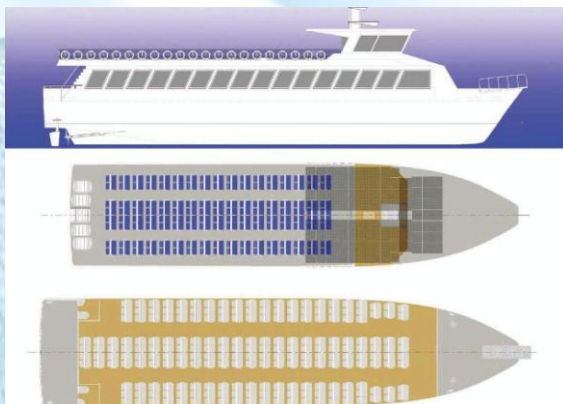
**HORUS** is an **ECOLOGICAL SYSTEM** to be applied at large worldwide boats.



**Fig.1 - MY HOURS24 ELECTRIC (24 meter)**



**Fig. 2 - ELECTRIC WASTE BOAT HORUS42' (13 meter)**



**Fig. 3 - FERRY HORUS30 ELECTRIC 400 PAX (30 meter)**

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### ***Bi.Nav. Company Profile***

*Bi.Nav. R&D is a company of Bi.Nav. Group founded in 2000 as company that was founded with the aim of promoting the diffusion of a correct ecological behaviour. Since its formation in 2000, BI.NAV. CONSULTING has dedicated its efforts to a wide range of N/C service and engineering drawings to the ship-building and fabricating industries .Its professional staff has had over 25 years experience in computer application to shipbuilding. The company provides consulting service for all computer related problems in the areas of ship design and steel manufacturing. Its capabilities include complete numerical lofting services from hull fairing to preparation of burning tapes or templates. Many additional aids for manufacturing can be provided in the form of Roll sets, Pin Heights, Girth Table, Frame Bending Templates or Marking Tapes.*

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