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16 November 2010 - Ghost Yachts reveal new hybrid concept G180H

Almost a year after Ghost Yachts revealed the original Ghost G180 and eight months after the Ghost 180V concept was unveiled, the team of Ghost Yachts and the Italian design studio Gloss Design have announced a new hybrid version of the G180 platform. Joining forces with Imtech Marine & Offshore, they have developed the Ghost G180H, the company's next step towards more sustainable, innovative and efficient superyachts.

Using the Ghost G180 platform for this hybrid yacht concept, Ghost Yachts included the Fast Displacement Hull Form (FDHF) by Van Oossanen & Associates as it offered the required efficiency to operate a large yacht with a comparatively modest propulsion power. Combine this with Imtech's smart Hybrid system and, according to Ghost Yachts, you have the perfect combination for a sustainable and economical yacht.



During the development of the system, Imtech managed to unravel the initial complexity of the Hybrid system and shape it into a compact and sensible unit. Ghost Yachts reduced the required technical space by dividing the G180H's technical space into two levels. The silent parts of the hybrid system, like the Power Electronics Panels, batteries, and main switchboard, are located on the lower deck while the four Volvo Penta D16G generators are located in an insulated engine bay underneath the electronics room. The Ghost G180H is propelled by two completely new electric Voith Inline Propulsors (VIP) of 750kw each. These high efficiency hubless steerable pods, which have never been used on a vessel before, have an integrated electric motor and eliminate the need for propeller shafts and rudders. The Voith VIP's and Imtech's Hybrid system result in an extremely silent and vibration free propulsion system. The Hybrid system operates in seven different modes ranging from battery only to full hybrid operation. Each mode is specifically designed to ensure the optimum efficiency in any situation. The system is controlled by Imtech's new IMAS variable frequency drives control system, with interfacing and remote control via the FT NavVision IPMS system.



"All pieces of the hybrid puzzle came together on the G180H," Imtech's Sales Manager, Marien van der Deijl explains. "Diesel Electric propulsion systems often require a lot of concessions in terms of performance and interior space on a yacht of this size. This time we were dealing with a combination of an optimal hull shape and a pair of Voith Rimdrives that matched perfectly with the available power of the DE hybrid system."

For more on this story and to read more from Björn Moonen of Ghost Yachts on this concept, check out our sister site, SuperyachtDesign.com ...

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