Deltamarin participates in the design of the first LNG-powered icebreaker

Deltamarin Ltd has been awarded a contract by Arctech Helsinki Shipyard Inc**.** for the entire machinery and technical spaces outfitting production design of the very first LNG-powered icebreaker. The unique vessel is to be built for the Finnish Transport Safety Agency Trafi, and aims to reduce emissions and fuel costs by using both diesel and LNG as fuel.

The icebreaker has been planned especially for operations in the most challenging icebreaking conditions in the Baltic Sea. Equipped with the industry's most advanced technology, the vessel can also handle oil spill response operations and emergency towing in demanding conditions at open sea in both winter and summer. This ensures year-round safe seaborne transports in the Baltic Sea. This unique vessel will be delivered by the beginning of 2016.

The main dimensions of the vessel will be 110 m in overall length and 24 m in breadth. The vessel will have a maximum draught of 8 m. It will be able to move continuously through about 1.6 m thick level ice and the service speed of the vessel in open water will be 16 knots. The icebreaker will have accommodation for a total of 24 persons, with reserve for additional crew in case of oil spill response operations.

The work will be carried out using the AVEVA Marine Outfitting software. Deltamarin has earlier delivered similar design packages for several icebreakers built at Arctech.

The value of Deltamarin's design contract is around 1.8 M€ and the work is to be carried out over an estimated period of 12 months.

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About Deltamarin:

Deltamarin Group provides services for shipping, shipbuilding, naval, marine and offshore industry worldwide. The services cover the entire field of engineering from feasibility studies through concept development, FEED and basic design up to complete engineering and contracting packages, including site supervision. Deltamarin employs around 400 designers in its own and associated companies. Offices are located in Western Europe, Brazil, China, Singapore and Malaysia. Deltamarin is a subsidiary to AVIC International Maritime Holdings Limited.
www.deltamarin.com

About Arctech Helsinki Shipyard Inc.:

Arctech Helsinki Shipyard Inc. specializes in Arctic shipbuilding technology, e.g. building icebreakers and other Arctic offshore and special vessels. Arctech has a long history and experience in building arctic vessels. In the same location, Helsinki Shipyard, ships have been built almost 150 years. The shipyard has delivered about 60 percent of the icebreakers in operation around the world.
www.arctech.fi