

## Deltamarin commits to continue their work regarding EEDI for European Maritime Safety Agency with focus on the Baltic

A report prepared by Deltamarin for the European Maritime Safety Agency (EMSA) was recently published. The report provides information on tests and trials for several ship types for the evaluation of the applicability of EEDI (Energy Efficiency Design Index), and it gives a good insight into the complexity of a vessel's CO<sub>2</sub> efficiency. Deltamarin's extensive research into improving the energy efficiency of newbuildings as well as of the existing fleets of our customers has provided the foundation for the analysis.

The report has been distributed to all EU flag authorities and relevant industry organisations, such as shipyard and ship owner associations within the EU. A summary of the conclusions will be sent to IMO MEPC 60 (Marine Environment Protection Committee 60<sup>th</sup> session) by the EU commission and 19 EU member states. The entire '*EEDI test and trials for EMSA*' report can be downloaded at EMSA's web-site, <http://www.emsa.europa.eu/end185d012d003.html>.

According to the report, when evaluating the applicability of the index it is essential to identify the ship types where EEDI represents a comparable measure of efficiency. It is also important to recognize the consequences of establishing limitations for the index value of those ships. The report also concludes that the current EEDI philosophy is not feasible for small ships, special ships, passenger ships and short sea shipping in general. This is due to the considerable differences in ship design criteria, which are derived from the special tasks or from traffic schemes indicated in the operational profiles of these ships. Limiting power or speed of these kinds of vessels could lead to undesired sub-optimization of larger transportation systems and would make building certain types of ships impossible.

The Baltic requires a specific approach as small ships and short sea shipping are prevalent there. Deltamarin's commitment will be a first attempt to develop an environmental index where the special features of the Baltic Sea traffic are considered. This index should also cover other emissions than just the CO<sub>2</sub>, namely the environmental footprint of shipping in the area. The idea is that the new index would work as a tool for defining the waterway or port fees in a way that they would support the development of sustainable technology to be used in the Baltic Sea.

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### *Deltamarin Ltd*

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 about 470 designers in its own and partly owned companies in Western Europe, Russia, China and Malaysia.

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