

We4Sea and NetWave launch a unique monitoring system to cut emissions of ships

Invitation to the maritime sector to cut the fuel bill

DELFT, September 6th, 2016 – **NetWave Systems and We4Sea, both from The Netherlands, have launched their partnership today, with a focus on reducing fuel consumption on seagoing ships. Both companies want to play an active role in making the sector, which transports over 90% of all goods, more sustainable.**

NetWave, a leading firm in Voyage Data Recorders (VDR), has 5500 VDR systems installed on ships. These VDR's collect data on board ships, for the purpose of analysing after incidents. The same data however, can also be used to monitor the ship and optimize fuel consumption. This way of using the collected data hardly ever done. Mr. Rob Post, CEO of NetWave: "By connecting our VDRs or gateways to the newly developed SeaWise Cloud platform, new possibilities for monitoring of performance and optimization of seagoing ships will be made possible. Through our alliance with We4Sea, we offer the ship-owner substantial possibilities for cutting the fuel bill, without major investment. This will have a direct impact on their financial results".

We4Sea is focussed on fuel reduction on seagoing ships, using detailed data analysis of all aspects of the operation of these ships, using Big Data and simulation technology.

The data collected is send to shore, where it is enriched with other data sources, such as weather conditions, waves heights, currents and wind. By means of We4Sea's own algorithms and energy models, the data collected is transferred into useful management information. A web platform offers access to this information, based on the actual usage of the ship. Dan Veen, CEO of We4Sea: "The data that is collected in the Netwave systems offers a wealth of information on the energy-efficiency of a ship. We use this data to monitor the ship, and offer our knowledge to reduce fuel consumption."

In pilot projects, it has been proven that using data technology can substantially cut fuel costs, up to 20%. As both the economical and the ecological aspect of shipping operations are improved, it creates a win-win situation. Using the technology is easy, as it required no additional hardware on board of the ship. Also, the service is offer for a fixed monthly fee, and is unique in its kind.

The cooperation os formally announced on the Hamburg maritime exhibition SMM this week, on the booth of NetWave, B6 -403.

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About We4Sea

We4Sea was founded in 2016, and combines years of experience in maritime technology with research at TNO and TU Delft. The founders of the company, Dan Veen and Michiel Katgert, have a shared passion for ships, especially when they are efficient. *Dan Veen* has a background at ship's engine manufacturer Wärtsilä and the Dutch research organisation TNO. *Michiel Katgert* has a background as Naval Architect, combined with research on ship efficiency at TU Delft and TNO. We4Sea (www.we4sea.com) is, as tech-startup, part of incubator YES!Delft in Delft, the Netherlands (www.yesdelft.nl).

About Netwave Systems

NetWave Systems B.V. has been the original manufacturer of the VDR and S-VDR NW-4000 Series since 2006 and is a major supplier of both 'third party branded' VDR Systems as well as stand-alone FRM (final recording medium) Capsules to renowned OEM customers. As a marine IT and electronics development and manufacturing company, NetWave sources from production locations throughout Europe, ISO 9001:2008 certified and audited by the German Notified Body BSH ('Wheelmark') which has audited and approved NetWave's operations regularly. In May 2011, NetWave acquired the Voyage Data Recorder division of Rutter Inc., Canada and hence became the world's leading supplier of VDR and S-VDR solutions.

NetWave is further acknowledged for its extensive global network of certified service agents who not only support NetWave's customers with the highest level of expertise, but are also available along all the major shipping routes and ports throughout the world, making NetWave the most cost-effective marine IT and electronics supplier in the industry. Netwave Systems is located in Zoetermeer, the Netherlands. (www.netwavesystems.com)

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