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Cavotec & Wärtsilä to develop world's first marine wireless charging and mooring concept

An agreement has been signed between [Cavotec Group](#) and [Wärtsilä](#) to jointly develop the world's first combined induction charging and automatic mooring concept.

Cavotec provides automated mooring systems for various types of vessels, as well as shore power and reel systems. Wärtsilä has developed a wireless charging system based on inductive power transfer. By combining the strengths and expertise of the two companies, an integrated wireless

charging/mooring concept will be developed for use in Wärtsilä's ship designs.

[Cavotec's mooring system](#) is a vacuum-based automated mooring technology that eliminates the need for conventional mooring lines. Remote controlled vacuum pads recessed in, or mounted on, the quayside, moor and release vessels in seconds. The technology dramatically improves safety and operational efficiency, and also enables ports to make infrastructure savings. It has performed more than 145,000 mooring operations at ferry, bulk handling, Ro-Ro, container and lock applications worldwide.

“Cavotec is well-known for its innovative approach to engineering and we are a leader in the field of automated mooring and [Alternative Maritime Power](#) supply systems. This is an exciting project and we are delighted to be partnering with Wärtsilä to make shipping cleaner, safer, and easier. The envisioned integrated wireless charging and mooring system will further the marine industry's environmental profile,” says Ottonel Popesco, CEO of Cavotec Group.

Wireless charging provides an alternative to the cable connection between the vessel and shore, securing and facilitating safe connections and disconnections. It also reduces maintenance since wear and tear to physical connection lines is eliminated. Similarly, damage to electrical outlets caused by seawater, snow and ice is also avoided. The new project's integrated system will be capable of transferring more than 1 MW of electrical energy. This is some 300 times more than that of current chargers used by electric cars.

“During recent years, wireless charging has been introduced for cars, busses and trains. Wärtsilä has now made this possible also for marine vessels. This agreement with Cavotec will enable this technology to be delivered as an integrated charging and mooring system,” says Peter Rogers, Director Power Products, Wärtsilä Marine Solutions.

The environmental challenge has been the starting point for Wärtsilä's work in developing battery/hybrid technology for marine vessels. By making wireless charging of ship batteries possible, the electrification of coastal shipping is enhanced, resulting in major reductions in harmful exhaust emissions. Wärtsilä has already launched an innovative ferry concept featuring wireless induction battery charging.

Supporting customers to become more productive while reducing their environmental impact is a well established cornerstone of Cavotec's operations. In 2015 Cavotec completed installation of the [world's first combined automated mooring and shore power system](#) in Norway, servicing Norled's fully battery powered ferries. Featuring integrated MoorMaster™ automated mooring and Alternative Maritime Power electrical supply systems the project demonstrates Cavotec's capacity for innovation, underlining its ability to offer integrated systems that maximise efficiency and environmental performance.

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Cavotec in brief:

Cavotec is a world leading expert in engineering and supply of systems to connect, electrify and automate ships, planes and mobile equipment. Working closely with our customers and industry bodies, we look to develop long-term relationships that drive projects forward and help improve safety, efficiency and sustainability at a vast diversity of applications worldwide.

All design and manufacture of Cavotec systems takes place at our eight Centres of Excellence. Our sales companies in 35 countries around the globe, provide customers with local support backed by a global network of engineering expertise. Cavotec is listed on the NASDAQ OMX Stockholm,

Sweden. www.cavotec.com

Wärtsilä in brief:

Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasizing technological innovation and total efficiency, Wärtsilä maximizes the environmental and economic performance of the vessels and power plants of its customers.

In 2014, Wärtsilä's net sales totalled EUR 4.8 billion with approximately 17,700 employees. The company has operations in more than 200 locations in nearly 70 countries around the world. Wärtsilä is listed on the NASDAQ OMX Helsinki, Finland. www.wartsila.com

Cavotec is a leading global engineering group, developing innovative technologies that enable the maritime, airports, mining and tunnelling, and general industry sectors to operate productively and sustainably.

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