



NEWS RELEASE

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Alfa Laval to supply first systems for ammonia-fuelled marine vessels by end of 2025

Alfa Laval is working hard on the task of decarbonizing the marine industry to meet net zero targets. The marine sector, which accounts for nearly three percent of global carbon emissions, has seen the emergence of a new fuel landscape, with ammonia destined to become one of the future low-carbon fuels of choice. As a front-runner in enabling the use of ammonia, Alfa Laval announces it will be ready to supply its first fuel systems for ammonia-fuelled vessels by the end of 2025.

Leveraging its extensive expertise with fuels such as LNG, LPG, and methanol, Alfa Laval is accelerating the development of new technologies for ammonia to ensure its safe and efficient use as a future fuel, through partnerships and joint development projects.

Ammonia-fuelled vessels – a reality in 2025

In partnership with Swiss engine designer WinGD, Alfa Laval has delivered two test systems for WinGD's ammonia-fuelled engines, including a fuel valve train and a vent treatment system. The Alfa Laval FCM Ammonia fuel supply system design will be validated by the end of 2024, with the first marine delivery expected by the end of 2025.

"The Alfa Laval FCM Ammonia is another addition to our toolbox of solutions that accelerate the decarbonization of shipping. This delivery to WinGD highlights our technology readiness to handle ammonia as a fuel, demonstrating our commitment to supporting the maritime industry's transition to sustainable energy sources," says Sameer Kalra, President, Marine Division, Alfa Laval.

Exploring the potential of ammonia

Following a recent Memorandum of Understanding (MoU), Alfa Laval, WinGD, the American Bureau of Shipping (ABS), and K Shipbuilding (KSB) are collaborating to drive

the necessary technological advancements in an ammonia-fuelled MR tanker design. Recently, the scope expanded to include the design of an ammonia dual-fuel boiler system. This boiler system will efficiently handle purge/boil-off gas and meet the vessel's heat demands, thereby minimizing the vessel's energy consumption, whilst ensuring safe operations.

As a zero-carbon fuel, ammonia is anticipated to become an important component in the marine industry's efforts to reduce its carbon emissions, holding significant promise to meet the International Maritime Organization's (IMO) 2050 strategy.

"By investing our resources in research, development and innovation, we are steadily advancing in our ambition to enable a future powered by alternative fuels," says Kalra. "Many shipowners are exploring the use of ammonia as fuel, and Alfa Laval is ready to be a key enabler of this transition— with innovative solutions, technological capabilities and experience in handling a wide range of fuels."

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This is Alfa Laval

The ability to make the most of what we have is more important than ever. Together with our customers, we're innovating the industries that society depends on and creating lasting positive impact. Alfa Laval is a leading global provider of first-rate products in the areas of heat transfer, separation and fluid handling. We're set on helping billions of people to get the energy, food, and clean water they need. And, at the same time, we're decarbonizing the marine fleet that's the backbone of global trade.

We pioneer technologies and solutions that free our customers to unlock the true potential of resources. As our customers' businesses grow stronger, the goal of a truly sustainable world edges closer. The company is committed to optimizing processes, creating

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responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets. Together, we're pioneering positive impact.

Alfa Laval was founded 140 years ago, has customers in some 100 countries, employs more than 21,300 people, and annual sales were SEK 63.6 billion (5.5 BEUR) in 2023. The company is listed on Nasdaq Stockholm.

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