

Press release

Alfa Laval signs strategic MOU with Hanwha Ocean Ecotech for ammonia fuel system collaboration

Alfa Laval Korea Ltd. has signed a Memorandum of Understanding (MOU) with Hanwha Ocean Ecotech, marking a significant step toward strengthening cooperation in developing safe and reliable ammonia fuel system solutions for dual-fuel vessels. The partnership reinforces both companies' commitment to supporting the maritime industry's transition to low-carbon and alternative fuel technologies

Stockholm, Sweden, 25/11/2025

Accelerating adoption of ammonia as a marine fuel

The MOU with Hanwha Ocean Ecotech marks a strategic collaboration to leverage Alfa Laval's deep technical expertise in ammonia fuel systems together with Hanwha Ocean Ecotech's capabilities in marine technology. The joint approach aims to secure early market opportunities and build competitive advantage in the rapidly-growing field of alternative marine fuels.

The partnership includes cooperation on business co-development and project opportunities, with a ambition to deliver a pilot installation to enable future collaboration.

The collaboration is founded on a shared ambition to advance ammonia fuel systems for dual-fuel vessels. Alfa Laval will contribute its proven capabilities in ammonia fuel and mitigation technologies through ammonia fuel supply system and FSS and Ammonia Release Mitigation System (ARMS) and Hanwha will apply its extensive experience in system engineering and integration. This partnership will facilitate the exchange of expertise and improve productivity and safety on board.

“This MOU is more than just technical cooperation – it represents a strategic partnership to secure leadership in Korea and Asia’s sustainable shipbuilding market. By combining our strengths, we aim to accelerate the decarbonization of global shipping with safe and reliable ammonia fuel solutions,” says **Young-Gu Choi**, Managing Director of Alfa Laval Korea.

“Partnering with Alfa Laval is a significant opportunity to deliver safer and more efficient ammonia fuel systems to our customers. Through pilot projects and subsequent commercial projects, we will maximize synergies and bring greater value to the maritime industry,” says **Chang-Keun Lee**, CEO of Hanwha Ocean Ecotech.

Driving innovation through collaboration

The partnership with Hanwha Ocean Ecotech represents a strong commitment to enabling ammonia-powered shipping through proven technologies, engineering, and close industry collaboration. The signing took place at Alfa Laval’s booth during Kormarine 2025.

Alfa Laval is actively engaged in several other key collaborations focused on ammonia as a marine fuel. A key example is our long-standing research and development partnership with WinGD, which has successfully tested the FCM Ammonia, Ammonia Release Mitigation System (ARMS) and Fuel Valve Trains, laying a solid foundation for its commercial rollout.

Another collaboration between South Korea’s shipbuilder K Shipbuilding (KSB), Alfa Laval, WinGD, and the classification society American Bureau of Shipping (ABS), saw Alfa Laval contribute to the design of the entire fuel system, including the ammonia fuel supply system, fuel valves train, and ARMS with Alfa Laval also adding an Aalborg ammonia dual-fuel boiler system to the project scope.

These initiatives demonstrate Alfa Laval’s broad commitment to accelerating the safe adoption of ammonia with own innovations and industry collaborations.

Learn more about fuel supply system for ammonia: [FCM Ammonia | Alfa Laval](#)

Visit marine equipment and solutions for ammonia as fuel page: [Marine equipment and solutions for ammonia as fuel | Alfa Laval](#)

For more information, please visit the Alfa Laval Marine webpage: www.alfalaval.com/marine

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. 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 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 100 countries, employs more than 22,300 people, and annual sales were SEK 66.9 billion (5.8 BEUR) in 2024. The company is listed on Nasdaq Stockholm.

www.alfalaval.com

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