



News release

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Alfa Laval joins a groundbreaking hydrogen project

Alfa Laval joins innovation forces in a consortium with key industry partners in a groundbreaking project to develop and produce the world's first 10 MW green hydrogen production facility offshore in the North Sea, off the Belgian coast. The facility is set to produce clean hydrogen by 2026.

Hydrogen is considered one of the main enablers in achieving global net-zero carbon emissions by 2050. However, its widespread adoption depends on the deployment of abundant renewable energy sources, with offshore wind being a key one. To maximize wind energy utilization and minimize energy losses, the new consortium is pioneering green hydrogen production offshore.

The project, known as HOPE (Hydrogen Offshore Production for Europe), represents a milestone in the renewable energy landscape. As the world's largest offshore project of its kind, HOPE is set to begin its implementation, with the production unit and export and distribution infrastructure scheduled to go live in mid-2026.

The consortium represents a true flagship project for the European Commission and the Clean Hydrogen Partnership, combining the collective expertise and know-how of all nine partner organizations. Alfa Laval will provide gasketed plate heat exchangers and its innovative low-energy water purification system, harnessing electrolyser-generated heat. The nine consortium partners span the entire renewable hydrogen value chain, setting the stage for a sustainable, decarbonized future.

The HOPE consortium consists of:

- Alfa Laval (Denmark): Supply of the seawater treatment system
- Lhyfe (France): Engineering, equipment procurement
- Plug (Netherlands): Supply and engineering of the 10MW electrolyser
- EDP NEW (Portugal): Optimization of operations and impact analysis
- POM West-Vlaanderen (Belgium): Project implementation support in the testing area
- CEA (France): Optimization of operations via digital simulation
- Strohm (Netherlands): Supply of the subsea flexible thermoplastic composite pipeline (TCP)
- DWR eco (Germany): Communication and dissemination of project results throughout Europe
- ERM – Element Energy (France): Coordination support

This is Alfa Laval

Alfa Laval is a world leader in heat transfer, centrifugal separation and fluid handling, and is active in the areas of Energy, Marine, and Food & Water, offering its expertise, products, and service to a wide range of industries in some 100 countries. The company is committed to optimizing processes, creating responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets.



Alfa Laval's innovative technologies are dedicated to purifying, refining, and reusing materials, promoting more responsible use of natural resources. They contribute to improved energy efficiency and heat recovery, better water treatment, and reduced emissions. Thereby, Alfa Laval is not only accelerating success for its customers, but also for people and the planet. Making the world better, every day.

Alfa Laval has 20,300 employees. Annual sales in 2022 were SEK 52.1 billion (approx. EUR 4.9 billion). The company is listed on Nasdaq Stockholm.

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