

News release

Alfa Laval selected by Saipem to supply heat transfer technology for one of Europe's largest carbon capture projects

Alfa Laval has been selected by Saipem, the EPC (Engineering, Procurement, Construction) contractor for Stockholm Exergi's BECCS (Bioenergy with Carbon Capture and Storage) project to supply heat transfer equipment for one of Europe's largest bioenergy carbon capture facilities. The project is expected to begin operations in 2028 and will capture, liquify, and permanently store up to 800,000 tonnes of CO₂ annually, representing approximately one to two percent of today's total global carbon capture capacity.

Stockholm Exergi, a leading Swedish energy provider, is taking a bold step towards net-negative emissions with the first-of-its-kind large-scale BECCS initiative set to run at Europe's largest biomass-based combined heat and power plant in Stockholm. When fully operational, the facility will capture and store CO₂ from the combustion of biogenic fuels, where Alfa Laval's heat transfer solutions will play a crucial role, maximizing system efficiency and heat recovery. The project is part of Sweden's climate neutrality goals, contributing to the EU's climate strategy and positioning Stockholm Exergi as an early adopter.

"Carbon capture at this scale is one of the most demanding thermal engineering challenges in the energy transition and effective energy recovery is what ultimately makes it commercially viable," says Thomas Møller, President of the Energy Division, Alfa Laval. "Stockholm Exergi is setting a new standard for what net-negative emissions can look like at industrial scale, and we are honoured to contribute to this landmark project with our heat transfer solutions."

"The plant will require a lot of energy to capture the CO₂ from the flue gas and liquify it, but with the high quality Ziepack heat exchangers from Alfa Laval, we will be able to reclaim the energy used. This energy will go back in our existing district heating system, which contributes additionally to our carbon removal targets," says Egil Nybakk, Director BECCS at Stockholm Exergi.

Alfa Laval will supply its Ziepack gas-gas interchanger alongside multiple process plate-and-frame heat exchangers, crucial for maximizing system efficiency and heat recovery, and integral parts of the core capture process. The equipment package has been selected by Saipem as part of its EPC contract for the Stockholm Exergi BECCS facility. Alfa Laval's technologies will contribute to the efficiency of the carbon capture process and support the project's ambition to become one of the world's largest facilities for the capture and permanent storage of biogenic CO₂.



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This is Alfa Laval

Working closely with customers and partners worldwide, Alfa Laval challenges conventional thinking on engineering, quality, and innovation. Together, driving the solutions of the future, inspiring progress towards a more resourceful, less wasteful world.

Alfa Laval is set on creating positive impact in areas that society depends on, including energy, food, water, medicine, maritime transport and offshore operations. As a leading global provider of solutions in heat transfer, separation, and fluid handling, the company collaborates closely with many industries to optimize efficiency, reduce emissions and increase yields.

Alfa Laval was founded more than 140 years ago, has customers in over 100 countries, employs more than 23,500 people, and annual sales were 69.6 BSEK (6.6 BEUR) in 2025. The company is listed on Nasdaq Stockholm.
www.alfalaval.com

About the Stockholm Exergi BECCS project

Bioenergy with Carbon Capture and Storage (BECCS) is a key climate technology that generates renewable energy from biomass while capturing and permanently storing the resulting CO₂. The Stockholm Exergi plant, BECCS Stockholm, is expected to capture and permanently store up to 800,000 tonnes of biogenic CO₂ annually, making it one of the world's largest carbon removal facilities. The captured CO₂ is then compressed and liquified, allowing for space-efficient underground or offshore storage.



About Stockholm Exergi

Stockholm Exergi is a Swedish energy provider in Stockholm. Today, more than 800,000 people and around 400 locations in Stockholm are connected to the district heating network, which is in turn connected to Stockholm Exergi's heating and cogeneration plants.

About Saipem

Saipem is a global leader in the engineering and construction of major projects for the energy and infrastructure sectors. The company is active across the entire CO₂ value chain, from carbon capture to transportation and storage, leveraging its engineering, technological and project execution capabilities to support clients' decarbonization objectives.