Everllence

Press release
Augsburg, 11 September 2025

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Everllence supplies compression technology for bio-energy based CCS flagship project in Stockholm

- **Everllence axial compressor and expander to support biogenic CO_2 capture at Värtaverket biomass power plant**
- **800'000 tons of CO_2 per year to be permanently stored**

Everllence has been selected by EPC Contractor SAIPEM to supply the core compressor and expander technology for Stockholm Exergi's BECCS (Bioenergy with Carbon Capture and Storage) project – one of the world's largest bioenergy-based carbon capture and storage initiatives. The facility, located at the Värtaverket biomass power plant, is designed to capture and permanently store biogenic CO_2 released during the combustion of forest-based biomass.

Dr. Uwe Lauber, CEO of Everllence, states: "This project marks a major step toward industrial-scale carbon removals. By enabling the permanent storage of biogenic CO_2, the facility supports Sweden's ambition to become climate-positive by 2030 – and serves as a scalable model for urban carbon removal worldwide. We are proud to contribute to this pioneering initiative with our high-efficiency axial compressor and expander train, delivering the reliability and performance required for continuous large-scale operation."

The CO_2 is separated from the plant's flue gas stream, which results from burning sustainably sourced wood residues such as chips, branches, and treetops. Once operational, it will remove up to 800,000 tons of CO_2 annually – more than the yearly emissions from all road traffic in Stockholm. The captured CO_2 will then be permanently stored beneath the North Sea, via Northern Lights.

The Carbon Capture plant is equipped with Everllence's electrically-driven MAX1 compressor train for handling the flue-gas, comprising the AG110 axial compressor and the EN080 axial expander.

Supported by the Swedish government and EU funding, the project has also secured carbon removal agreements with global companies such as Microsoft. The biomass power plant already provides sustainable heat and electricity to over 800,000 people in the Swedish capital.

Uwe Emmerich, Head of Sales Petrochemicals and Energy Storage at Everllence, adds: "Our proven axial turbomachinery is ideally suited for high-

volume flue gas applications like this one. Our technology ensures stable operation under demanding conditions, while maximizing energy recovery. Stockholm is the first BECCS facility to implement this configuration – and it sets a new benchmark for efficiency and scalability in the carbon capture sector."

Co-funded by the European Union
Emissions Trading System
Innovation Fund

Swedish Energy Agency

Stockholm Exergi plans to build one of the world's largest BECCS facilities
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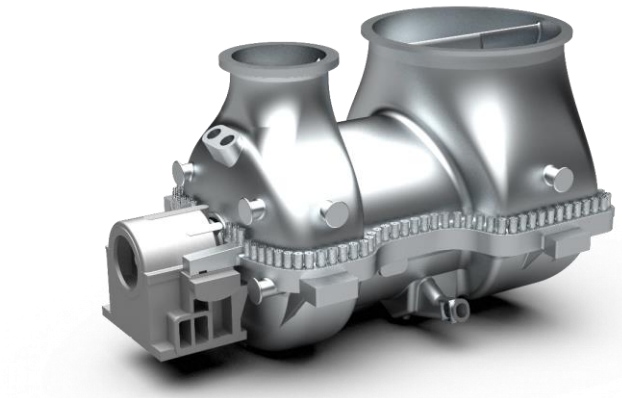
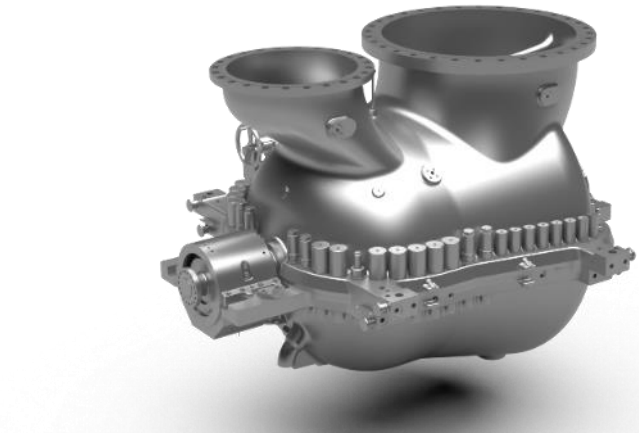


AG110 axial compressor by Everllence © Everllence



EN080 axial expander by Everllence © Everllence

Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – 'Moving big things to zero' – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.