Atlas Copco Gas and Process sCO2 Symposium

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Atlas Copco

Successive and

Feb 27, 2024 Atlas Copco Gas and Process

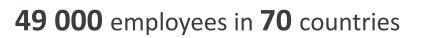


This is the Atlas Copco Group



Customers in more than $\boldsymbol{180}$ countries







Established in **1873** Stockholm, Sweden



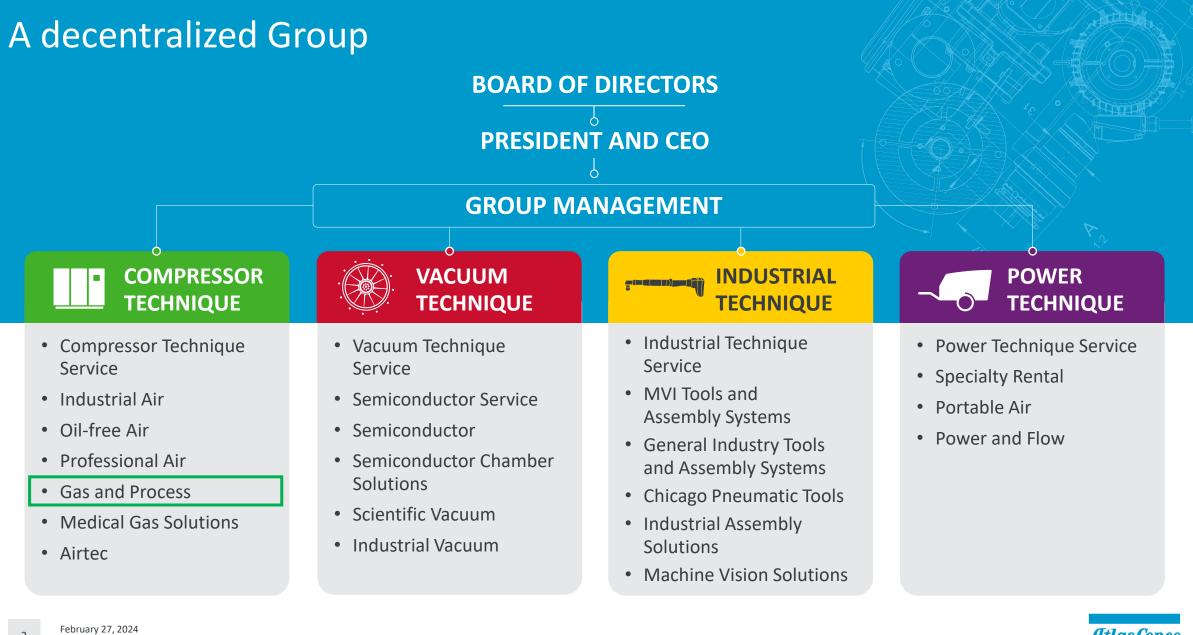
Turnover of 141 BSEK/ 13.5 BLN USD*



Operating margin of **21.4%**

*Based on the average exchange rate in 2023.







Global Structure Atlas Copco Gas and Process Division

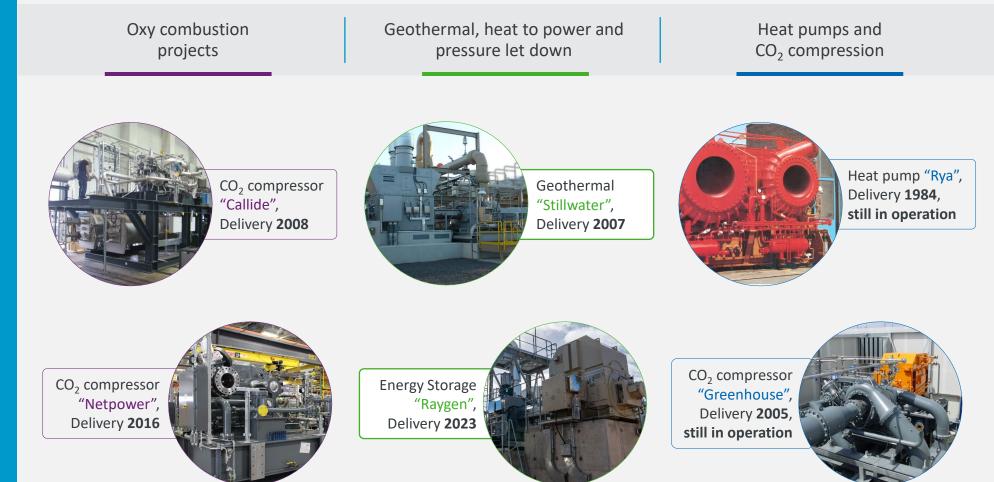
Headquarters: Cologne



Atlas Copco

Global Climate and Human Health Protection

Starting in 1984, Atlas Copco has supported with technology to reduce carbon footprint.



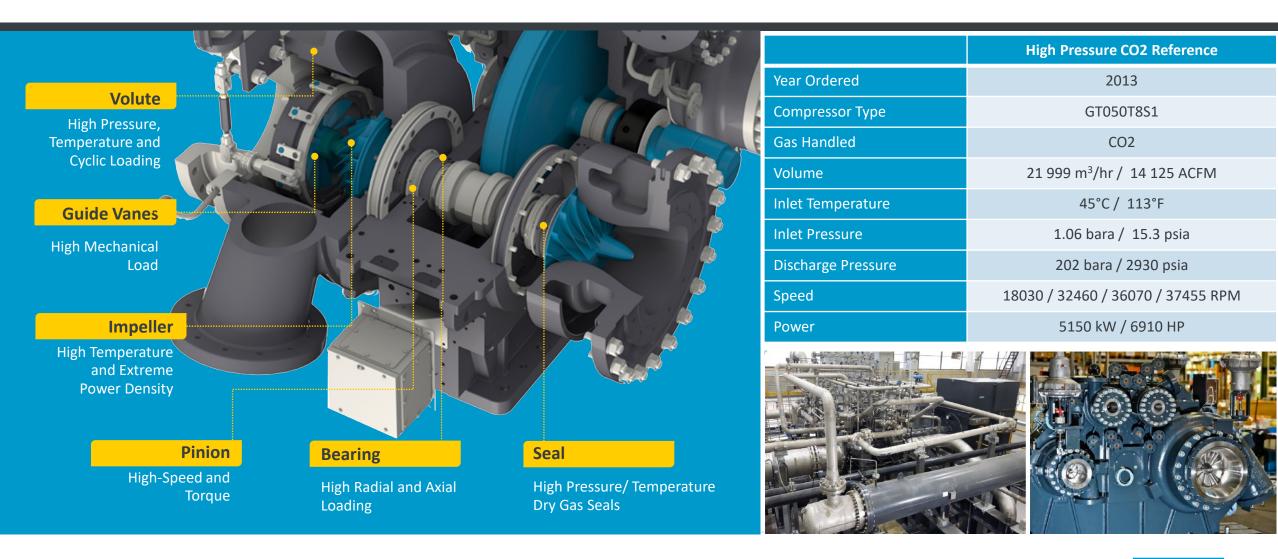
Technologies are required to support new, emerging and sustainable energy sources

Global Climate and Human Health Protection

Increased amount of CO₂ & sCO₂, H₂, LNG and energy storage related projects Turboexpanders for Hydrogen compressor / expander in Single stage compressor Turbomachinery for Liquefaction sCO₂ cycle / energy recovery for H₂ BOG Thermal Storage

Technologies are required to support new, emerging and sustainable energy sources

sCO2 Solutions | Leveraging Decades of CO2 Experience





Product Spotlight | Compander for sCO2 Power Plant

High Pressure Integrallygeared Compander







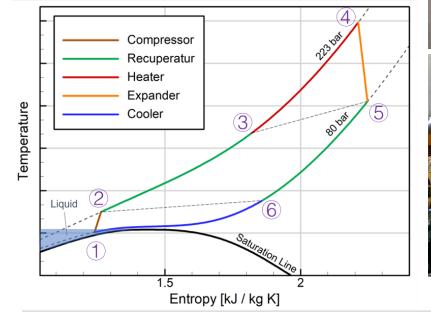
	Compressor	Expander
Shaft Sealing	Dry Gas Seal	
Speed	38 000 RPM	
Mass Flow	174 600 kg/h / 385 000 lbs/hr	
Impeller Diameter	104 mm / 4.1"	150 mm / 6.0"
Inlet Pressure	80 bara	223 bara
Inlet Temperature	28°C/ 82°F	275°C/ 530°F
Power	2 MW net	

High pressure compressor and expander design for power cycle **successfully tested**

sCO2 compander technology is ready for **plant sizes** up to approx. 10MW. See us about other configurations!

Shown **demo unit is for sale**, ask us in case of interest!





Thank you! See us with questions!

Louis Mann Marketing and R&D Manager



Chris Blackmer New Energy & Olefins Applications Manager



