Atlas Copco Gas and Process sCO2 Symposium

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Atlas Copco

Successive and

Feb 27, 2024 Atlas Copco Gas and Process

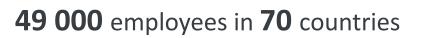


#### This is the Atlas Copco Group



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







Established in **1873** Stockholm, Sweden



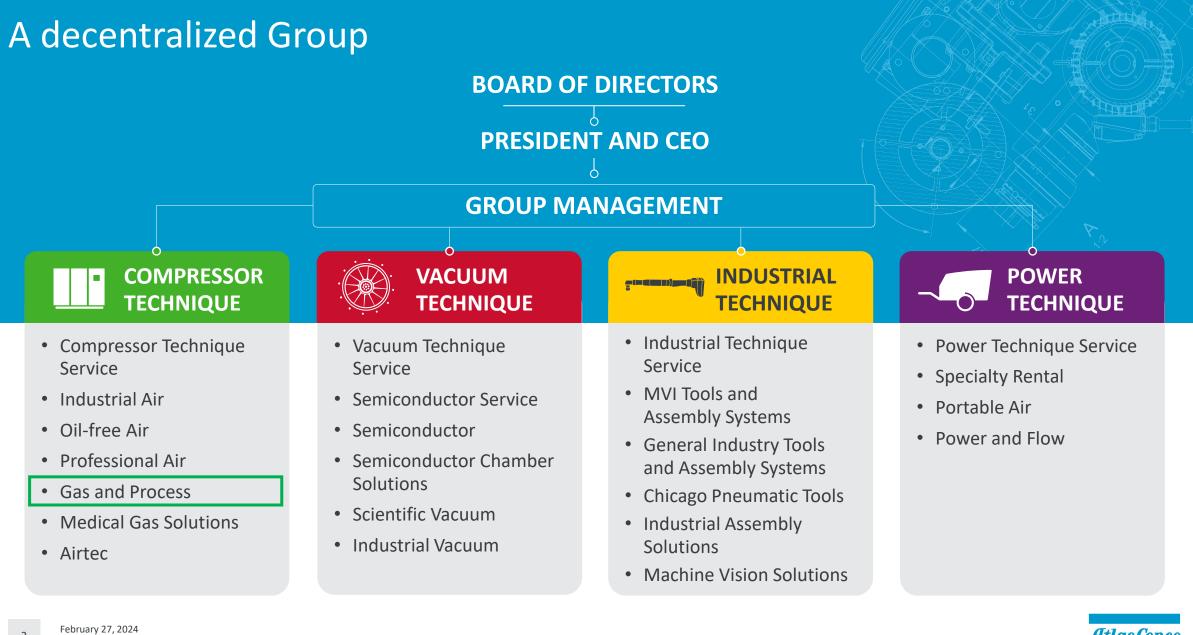
Turnover of 141 BSEK/ 13.5 BLN USD\*



Operating margin of **21.4%** 

\*Based on the average exchange rate in 2023.







#### **Global Structure** Atlas Copco Gas and Process Division

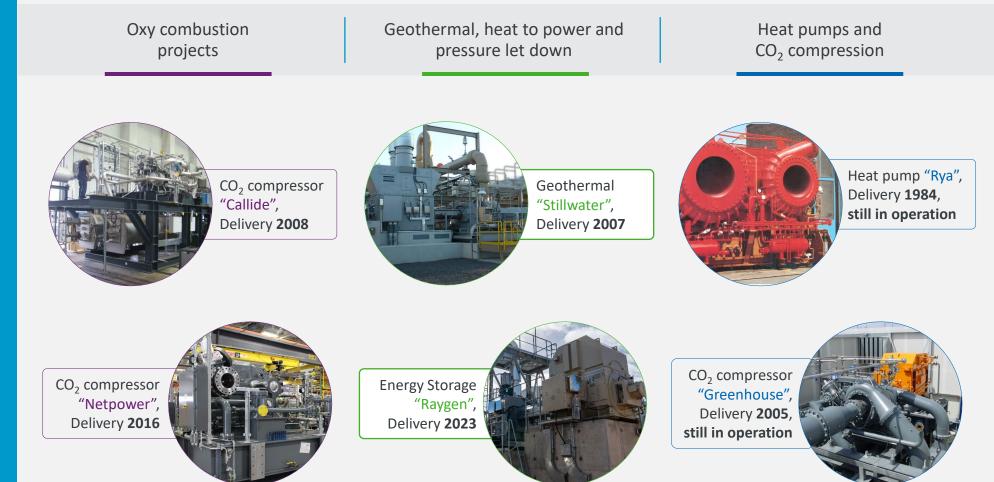
#### Headquarters: Cologne



Atlas Copco

#### **Global Climate and Human Health Protection**

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



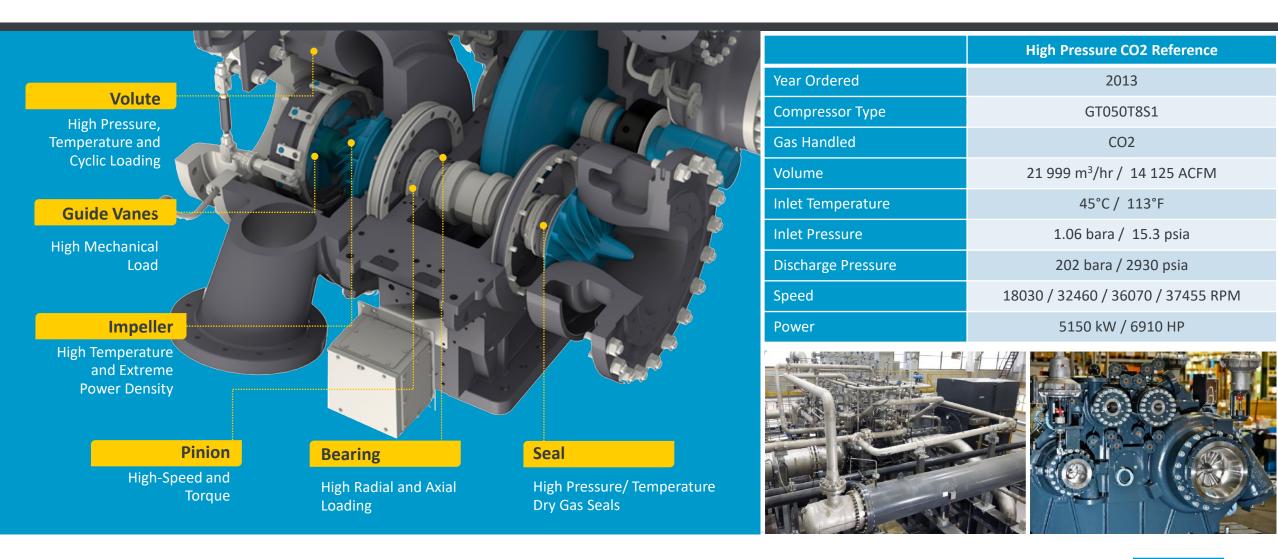
Technologies are required to support new, emerging and sustainable energy sources

## **Global Climate and Human Health Protection**

Increased amount of CO<sub>2</sub> & sCO<sub>2</sub>, H<sub>2</sub>, LNG and energy storage related projects Turboexpanders for Hydrogen compressor / expander in Single stage compressor Turbomachinery for Liquefaction sCO<sub>2</sub> cycle / energy recovery for H<sub>2</sub> BOG Thermal Storage

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

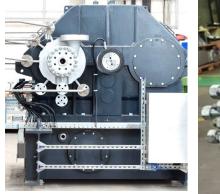
#### sCO2 Solutions | Leveraging Decades of CO2 Experience



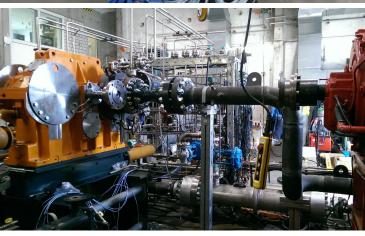


## Product Spotlight | Compander for sCO2 Power Plant

High Pressure Integrallygeared Compander







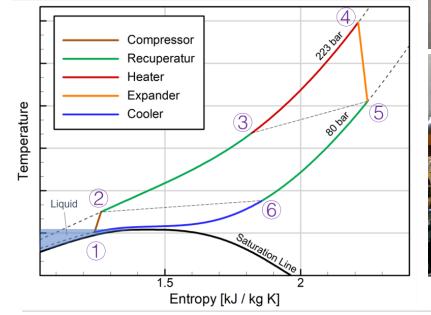
	Compressor	Expander
Shaft Sealing	Dry Gas Seal	
Speed	38 000 RPM	
Mass Flow	174 600 kg/h / 385 000 lbs/hr	
Impeller Diameter	104 mm / 4.1"	150 mm / 6.0"
Inlet Pressure	80 bara	223 bara
Inlet Temperature	28°C/ 82°F	275°C/ 530°F
Power	2 MW net	

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



