

Hello, we are ZeCarb.



Global reach for CO₂ capturing.



70 years of experience in the carbon capture Business.



Capable of capturing from different CO₂ sources and capacities.



Partner for all questions on CO₂ extensive partner network.

70+ years

experience in carbon capture projects.

30+

countries in which our solutions have been implemented

300+

Carbon capture plants installed worldwide.



ZeCarb is a brand by Messer Group

Group sales figures and number of employees 2024:

		Total*
Sales	in billion euro	4,5
EBITDA	in billion euro	1,4
Investments	in million euro incl. IFRIC4	878
Employees	Contractual employment relationships in FTE**	> 11,800

^{*} Consolidated presentation of Messer (formerly Messer Group and Messer Industries), which includes the former 100 percent equity-accounted investment in Messer Industries and was adjusted for the effects of the acquisition of Messer Industries in November 2023.

About Messer:

Messer is the world's largest privately held specialist for industrial, medical and specialty gases and a highly professional and sustainable global player.

Products

Messer manufactures and supplies oxygen, nitrogen, argon, carbon dioxide, hydrogen, helium, shielding gases for welding, specialty gases, medical gases and food gases as well as many different gas mixtures.

Customers

Our products are used in industry, environmental protection, medicine, the food and beverage sector, welding and cutting technology, 3D printing, construction, and research and science.

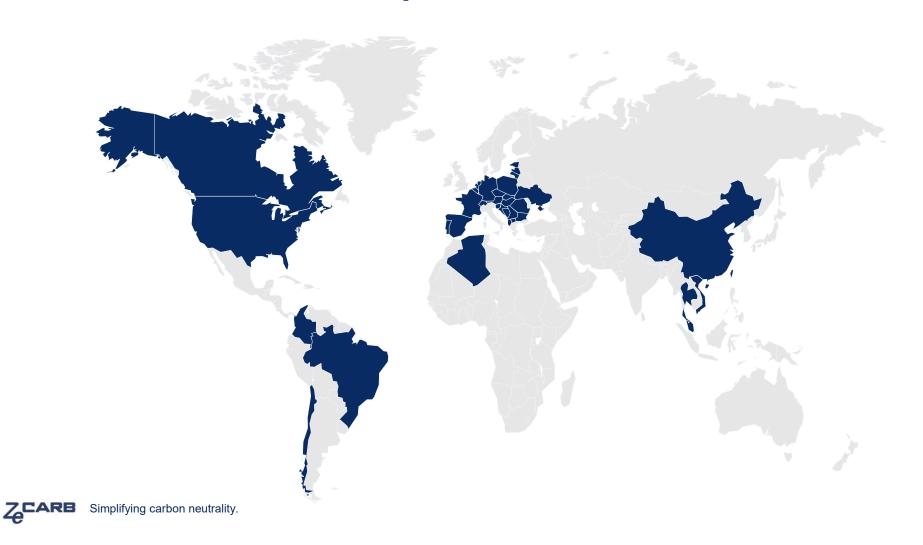




^{**} Full Time Equivalent

Successful in Asia, Europe and the Americas









Why we act

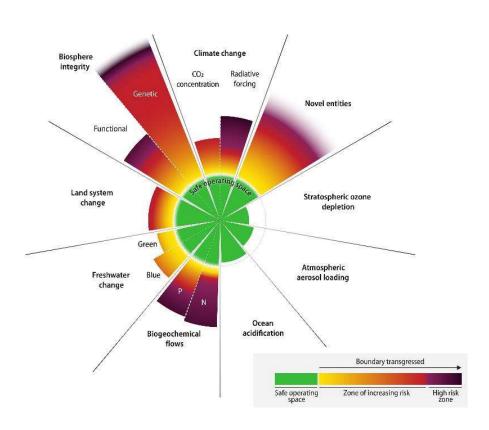


While carbon dioxide is indispensable to life and industry, todays excessive CO₂ emissions caused by human activities are the primary driver of climate change. **ZeCarb will use its decades of experience in the industrial gases sector to support hard-to-decarbonize industries with CCUS solutions.**



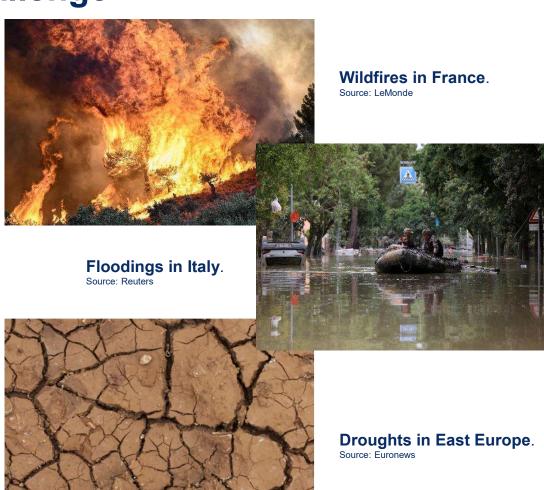
The world is facing a huge challenge





Source: Richardson K., Steffen W., Lucht W., Bendtsen J. & Rockström J. (13.09.2023) - Science Advances, Vol 9, Issue 7: Earth beyond six of nine planetary boundaries

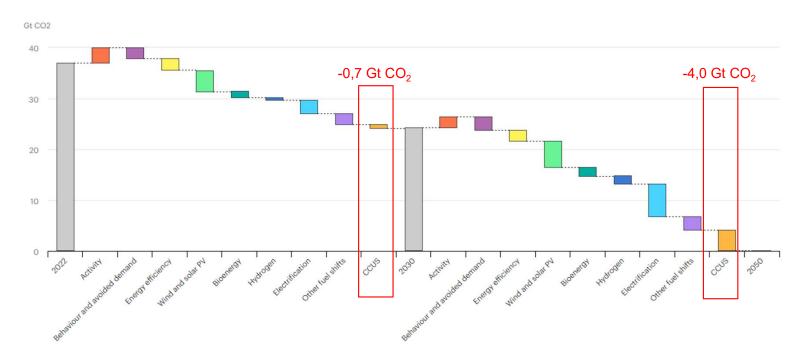




Vers. 1/24 (FW)

CCUS is key to achieve Net Zero targets

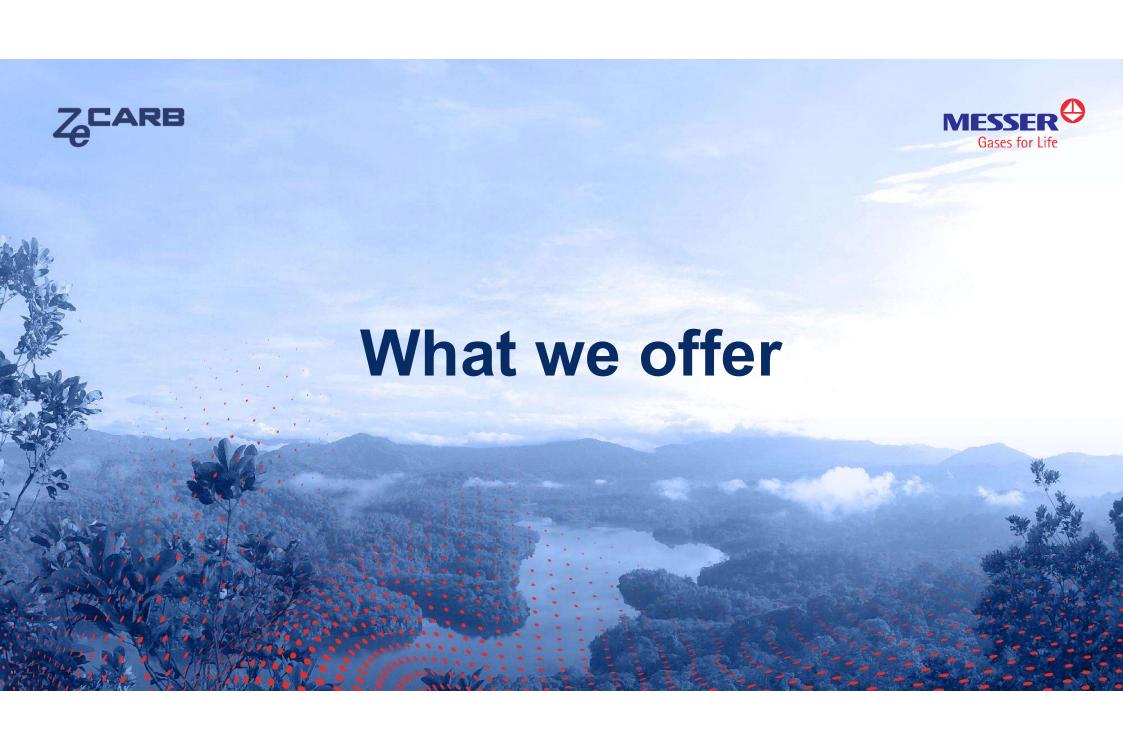




In the 1.5°C scenario CCUS remains an important component of the global energy transition.

IEA, Emission changes over time by mitigation measure in the Net Zero Scenario, 2022-2050, IEA, Paris https://www.iea.org/data-and-statistics/charts/emission-changes-over-time-by-mitigation-measure-in-the-net-zero-scenario-2022-2050, IEA. Licence: CC BY 4.0

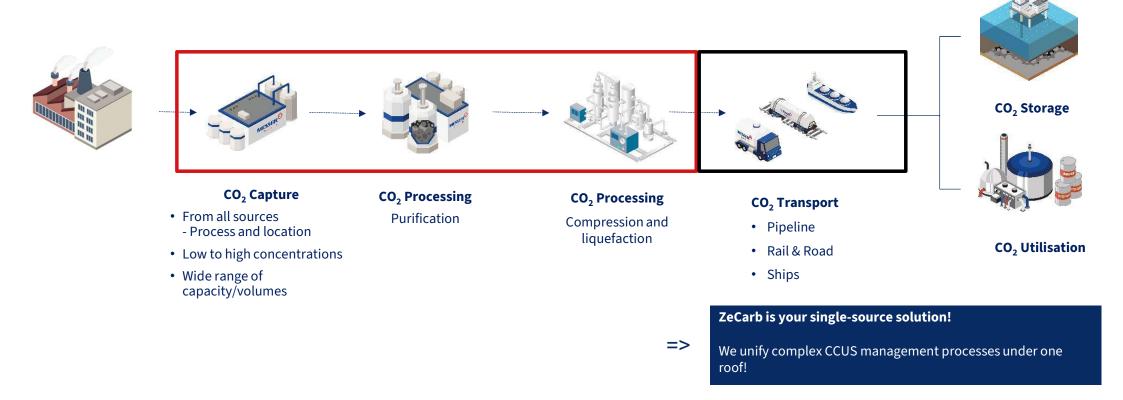




We simplify carbon neutrality!



ZeCarb offers <u>Carbon Capture as a Service</u> (CCaaS). Our services can be tailor made to your specific carbon capture needs.



We tackle your emission reduction targets together!

You take care of your business. We take care of the whole CCUS process

Economic stability

- Cost effectiveness
- Market positioning
- Financial security
- Planning security

Strategic forecast

- Sustainability goals
- · Risk mitigation
- · Stakeholder engagement
- Image benefit

Technological Benefits

- Innovation
- Maintenance and support
- Scaleability







Our carbon capture technologies



Capture technologies

Developed for low CO₂ concentration sources





Sources:

Flue Gas, Natural Gas (LPG) > 4 % CO₂ in existing flue gas



Capacities:

Standard solutions from 500 bis 25'000 kg/h (larger capacities on request)



Quality:

Capable to exceed ISBT food and beverage standard or any client/transport/sink specifications.





Processing technologies

Developed for high CO₂ concentration sources





Sources:

CO₂ from chemical processes e.g. ammonia, ethanol or ethylene oxide production, natural sources etc.



Capacitites:

from 500 to 50'000 kg/h (higher capacities possible upon request)



Quality:

Capable to exceed ISBT food and beverage standard or any client/transport/sink specifications.



Selected carbon capture projects







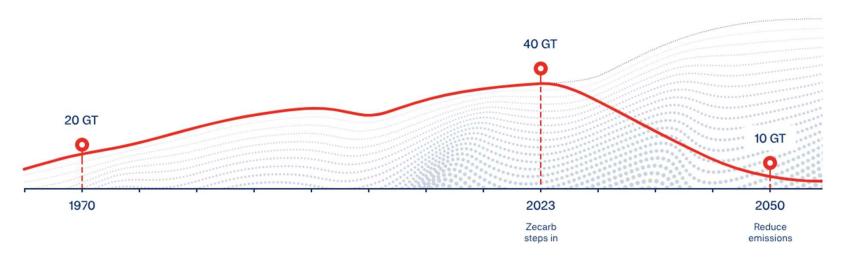






Our Mission

We are driven by a mission to achieve a zero-carbon future. We believe that climate change is the most pressing challenge of our time, and we are committed to playing a pivotal role in addressing it. Our approach is multifaceted, encompassing cutting-edge technologies, comprehensive education, and strategic partnerships.





Who we help

ZeCarb is your single source solution. Our services can be tailor made to your specific carbon capture needs.





Bio- and waste to energy





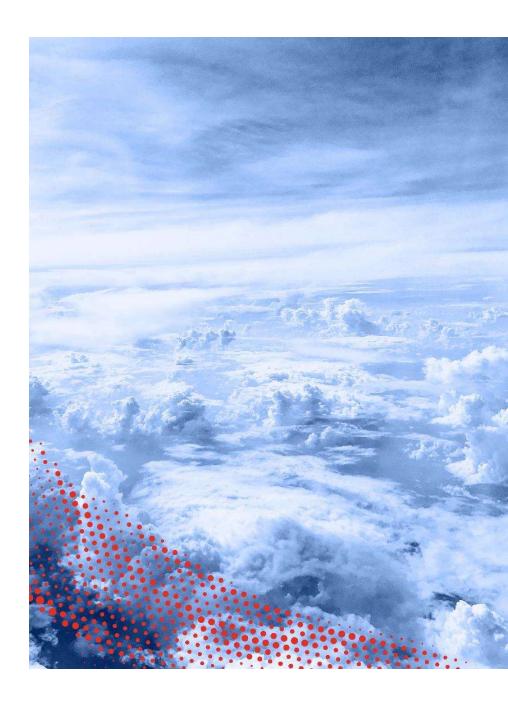


Gas-to-power



Blue hydrogen





300+ carbon capture plants installed worldwide









You take care of business. We take care of net zero.

Get in touch!

MESSER SE & Co. KGaA

Kleinewefersstrasse 1 D-47803 Krefeld Germany

E-Mail: request@zecarb.messergroup.com

Web: zecarb.messergroup.com

