



Joint News Release

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Messer invests in carbon dioxide recycling using BASF's gas treatment technology

- Messer's CO₂ recovery plant in Austria, Europe to start up in early 2024
- BASF's OASE® blue technology will be used to recover CO₂ from flue gas

Ludwigshafen, Bad Soden, Germany – May 10, 2023 – The world's largest privately held industrial gases specialist, Messer, aims to start up a carbon dioxide (CO₂) recovery plant in Austria in early 2024. The CO₂ will be recovered from the flue gas of an industrial company using BASF's OASE® blue technology. Messer wants to use recovery and purification processes to make the gas available for reuse.

Messer will refine the recovered CO₂ up to food grade quality and use it to increase supply reliability in Western Austria, South Tyrol, Eastern Switzerland and Bavaria, where Messer already supplies many customers with CO₂. In the future, shorter routes will be used to supply them with liquid CO₂ by tank truck. CO₂ is a raw material in demand in the food industry, which has so far often been obtained for this use as a by-product from ammonia production. With the technology now in use, Messer can meet customer demand even better.

“Our plant and equipment construction expertise in combination with the OASE blue technology enables Messer to build and operate energy efficient, economical production facilities that recycle CO₂,” says Dr Tarek El Hawary, Chief Technology Officer at Messer.

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Andreas Northemann, heading BASF's global gas treatment activities, said: "BASF's OASE blue technology provides Messer with a reliable CO₂ removal process with low energy demand. We are proud to work with Messer on this important project, implementing more sustainable technologies to reduce CO₂ emissions and environmental impact."

About Messer

Messer is the world's largest privately held specialist for industrial, medical and specialty gases. Messer's Gases for Life are used in industry, environmental protection, medicine, the food industry, welding and cutting technology, 3D printing, construction, research and science. As a global player, Messer offers its sustainable products and services in Europe, Asia and America. More than 10,000 employees work together successfully with a focus on diversity and mutual respect.

In most industrial processes, gases are just as important as water and electricity and play a major role in their decarbonization – through the use of green hydrogen, for example. Messer offers one of the largest product portfolios in the market and develops and optimizes application technologies for gases in state-of-the-art competence centers. As a pharmaceutical company, Messer supplies medical and pharmaceutical gases and turnkey solutions and has a proven track record as a reliable provider of vital products – in pandemic situations, for example.

Founded in 1898, the company's headquarters are located in Bad Soden, near Frankfurt, Germany.

In 2022, Messer generated an expected consolidated sales of 4.164 billion* euros.

** Sum of Messer Group and Messer Industries, which includes 100 percent of the at-equity holding Messer Industries.*

<http://www.messergroup.com>

<https://applications.messergroup.com>

<http://www.gasesforlife.de>

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About OASE

With more than 50 years of experience, BASF offers its customers efficient gas treating solutions for a variety of applications such as natural gas, synthesis gas, and biogas. Worldwide, these solutions have been proven and demonstrated in about 500 reference plants. BASF markets its range of gas treating technologies, the corresponding solvents and complete technical services including the digital platform OASE connect under the brand OASE® – Gas Treating Excellence by BASF. The OASE products are parts of the system solutions that make a significant contribution to sustainability in the value chain. Compared to conventional technologies, OASE offers the highest efficiency in gas treatment and thus makes important contributions to conserving resources and reducing emissions by saving energy. For more information, please visit www.oase.basf.com.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. More than 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €87.3 billion in 2022. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at www.basf.com.