

# Sulzer supports large-scale carbon capture project in Japan

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**Sulzer's mass transfer equipment will be at the core of one of Japan's large-scale carbon capture plants. Based in Yamaguchi Prefecture, the facility will support the decarbonization of a leading chemical manufacturer by leveraging Sulzer's extensive expertise and specialized mass transfer technologies.**

Column internals and packing for the entire commercial-scale carbon capture process will be supplied by Sulzer, global leader in separation and mixing technology. Including the direct contact cooler, absorber, and regenerator columns with the largest internal diameter measuring 2.8 m (approx. 9.2 ft).

The units will feature MellapakCC™ structured packing, AYPlus™DC structured packing, and tailored column internals designed to maximize performance when capturing carbon dioxide (CO<sub>2</sub>) from flue gases. These solutions minimize pressure drop and solvent emissions, reducing the plant's capital and operational expenses as well as its environmental footprint.

Prior to the selection of the mass transfer equipment, Sulzer conducted extensive in-house feasibility, pilot-scale testing, and pre-engineering services to develop a highly effective setup. In addition, the company will support the installation of the column internals and structured packing through its expert and localized Tower Field Service offering.

*Sulzer Chemtech Division President Uwe Boltersdorf comments:* "Our carbon capture solutions are being leveraged worldwide to help create a carbon neutral future. We are extremely proud to support such a key decarbonization project in Japan. Through our advanced testing capabilities, we were able to develop the most suitable design for

this specific application, ultimately maximizing the carbon emission reduction potential of the plant.

When it came to specifying the equipment, the customer was truly captivated by the capabilities of our separation technologies, in particular the MellapakCC structured packing, which is unique in the marketplace. We also received extremely positive feedback about the collaboration and look forward to completing this project and supporting similar ventures in the future.”

**Image captions:**

**Image 1:** Sulzer Chemtech's unique structured packing will be tailored to the key decarbonization project in Japan (shutterstock\_2428445057).

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**About Sulzer**

Sulzer is a global leader in fluid engineering and chemical processing applications. We specialize in energy-efficient pumping, agitation, mixing, separation, purification, crystallization and polymerization technologies for fluids of all types. Our solutions enable carbon emission reductions, development of polymers from biological sources, recycling of plastic waste and textiles, and efficient power storage. Our customers benefit from our commitment to innovation, performance and quality through our responsive network of 160 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2023, our 13'130 employees delivered revenues of CHF 3.3 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN). [www.sulzer.com](http://www.sulzer.com)

The Chemtech division is the global market leader in innovative mass transfer, static mixing and polymer solutions for chemicals, petrochemicals, refining and LNG. We are steering the way in ecological solutions such as bio-based chemicals, polymers and fuels, recycling technologies for textiles and plastic as well as carbon capture and utilization/storage, contributing to a circular and sustainable economy. Our product offering ranges from process components to complete process plants and technology licensing.

Visit our LinkedIn channel at [www.linkedin.com/showcase/sulzer-chemtech](https://www.linkedin.com/showcase/sulzer-chemtech) for exciting updates and more!

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