

September 19, 2025

**Nippon Gases establishes new CO<sub>2</sub> processing plant in Zörbig, Germany  
~Promoting decarbonization in food, mobility, and agriculture sectors by  
utilizing carbon dioxide from renewable sources~**

Nippon Sanso Holdings Corporation (Head Office: Shinagawa-ku, Tokyo; President CEO: Toshihiko Hamada), through its European subsidiary Nippon Gases Euro-Holding S.L.U. (Head Office: Madrid, Spain; Chairman & President: Raoul Giudici), inaugurated a state-of-the-art CO<sub>2</sub> processing plant operated by Nippon Gases Germany in Zörbig, Saxony-Anhalt, Germany, on 10 September 2025. The project involves an investment of approximately €30 million (approx. 5.1 billion yen\*) and has received a grant of €3.7 million from the Ministry of Economic Affairs of Saxony-Anhalt.

\*Converted at €1 = ¥170



*Photo: Nippon Gases Zörbig new production site*

At the new plant, food-grade liquefied carbon dioxide as well as dry ice are produced using carbon dioxide generated as a residual product from bioethanol made from maize and grain at the adjacent facility operated by Verbio SE. This enables a sustainable production process independent of traditional fossil fuel-based CO<sub>2</sub> production.

Furthermore, by integrating the carbon dioxide source, refining process, and dry ice production at a single site, up to 380,000 kilometers of truck journeys per year are eliminated, contributing to CO<sub>2</sub> savings of around 330 tons annually.

The CO<sub>2</sub> and dry ice produced at the Zörbig site are utilized in a wide range of industries, including the production of carbonated beverages and beer, frozen food manufacturing and transportation, as well as in the chemical and semiconductor industries.

This project, utilizing biogenic carbon dioxide derived from bioethanol, represents an important step towards decarbonizing the food, mobility, and agriculture sectors. As a Nippon Sanso Holdings group, we remain committed to achieving climate neutrality and will continue to work on decarbonizing our entire production and supply chain.



*Photo: Stefanie Stefanie Pötzsch, State Secretary in the Ministry of Economic Affairs of Saxony-Anhalt (center), and Christoph Laumen, Vice President Europe Central Eastern (right of center) at Nippon Gases, together with the Japanese Ambassador to Germany, Mitsuko Shino (left of center), inaugurated a new production facility for CO<sub>2</sub> processing by Nippon Gases Germany in Zörbig on September 10.*

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The Nippon Sanso Holdings Group is the world's fourth-largest supplier of industrial, electronic, and medical gases, operating in four geographic regions - Japan, U.S., Europe and Asia & Oceania - covering over 30 countries and regions. In addition, the Thermos business supplies THERMOS branded products to more than 120 countries worldwide. Since its foundation as Nippon Sanso Ltd. in 1910, the group stands for creating social value through innovative gas solutions that increase industrial productivity, enhance human well-being and contribute to a more sustainable future. With more than 19,000 employees, together, we are "The Gas Professionals" and we all have the same goal: "Making life better through gas technology"

**NIPPON SANSO HOLDINGS Corporation**

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