

PRESS RELEASE

First hydrogen-powered truck for dry ice logistics

HOYER and Nippon Gases to operate an emission-free transportation solution

Hamburg, January 8, 2025 – In close cooperation, Nippon Gases Deutschland and the HOYER Group bring into operation the first hydrogen-powered truck to transport dry ice. The vehicle, which is specially equipped for the operation, was officially handed over to Nippon Gases Deutschland and the HOYER Group today.

The industrial gases company Nippon Gases Deutschland, and the HOYER Group, the leading provider of logistics solutions for bulk liquids, already paved the way to sustainable transport solutions in the industrial gases sector five years ago, initially by using natural gas-powered transport trucks. Today, this cooperation between the two specialists and hylane GmbH marks another significant step towards sustainable, environmentally-friendly transport solutions. The hydrogen-powered vehicle offers an emission-free alternative to the conventional road transport of dry ice in boxes, and emphasizes the commitment of the companies involved to innovative, sustainable technologies.

The hydrogen-powered truck was handed over at the Nippon Gases site in Hürth on January 8, 2025. **Mona Neubaur, Minister for Economic Affairs, Industry, Climate Protection and Energy of the State of North Rhine-Westphalia**, completed the first test run as co-driver. She thereby highlighted the importance of this technology for sustainable mobility, Germany as a business location and climate protection.

“Hydrogen can contribute towards making freight transport climate-neutral. Hydrogen-powered fuel-cell trucks have their strengths as a result of short refuelling times and long ranges, which is exactly where battery-electric drives reach their limits. Therefore, the State supports the construction of hydrogen service stations for heavy goods vehicles, and procurement initiatives such as HyTrucks.NRW. Because one thing is clear: reducing CO₂ emissions in the transport sector is an important building block on North Rhine-Westphalia’s pathway to becoming Europe’s first climate-neutral industrial region,” says **Mona Neubaur, Minister for Economic Affairs, Industry, Climate Protection and Energy of the State of North Rhine-Westphalia**.

The air separation plant in Hürth is Nippon Gases Europe’s largest single production plant for air gases. The plant also houses a large filling station for all types of industrial gases and gas mixtures produced in Hürth. The company currently manufactures dry ice at the Bad Hönningen site. From 2025 onwards, the newly-built site in Zörbig (eastern Germany) will begin producing dry ice from biogenic CO₂ raw

ABOUT THE HOYER GROUP

HOYER, a traditional independent family business, has been one of the world’s leading bulk logistics providers since 1946. As a specialist, it has extensive know-how in the provision of holistic services, with particular customer proximity. It develops and implements comprehensive solutions in European and worldwide bulk logistics, especially in the chemical, food, gas and mineral oil products industries. For this, employees and representative offices in over 100 countries on five continents support customers with well-thought-out logistics solutions to make them even more successful in their respective markets. As well as trucks, road tankers, IBCs and tank containers, HOYER owns numerous logistics plants with depots, cleaning facilities and workshops.

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gas. Dry ice is used in a wide range of applications, including in the food and beverage industry, the automotive industry, for transport cooling and to clean objects and equipment.

Christoph Laumen, Managing Director Nippon Gases Deutschland, said, “Hydrogen trucks will make an important contribution to CO₂-neutral freight transport by road in the future. As the first industrial gases company in Germany to use a hydrogen-powered truck in its logistics fleet, Nippon Gases is a pioneer in our sector. Even with the single use of this new vehicle, we expect to save around 69,000 kilograms of CO₂ in vehicle operation compared to conventional diesel trucks. In addition, we will gain important experience and knowledge that will enable us to use this CO₂-neutral transport for other product lines in the future.”

The HOYER Group is a leading logistics services provider in the hydrogen segment, and is actively involved in ramping-up hydrogen mobility, including by supplying service stations. HOYER undertakes the handling and transport of industrial gases and dry ice for Nippon Gases. Using the hydrogen-powered truck not only reduces CO₂ emissions, but also allows the international logistics specialist to gather operational experience in deploying additional trucks at an early stage.

According to **Axel Remplewski, Executive Director Global Gas Logistics of the HOYER Group**, “The new truck has a range of up to 450 km, and can be fully refuelled in under 15 minutes. These features make it ideal for everyday use to transport dry ice, which is essential in many industries, including the food and pharmaceutical industries.”

Björn Schniederkötter, Chief Executive Officer of the HOYER Group, says, “As an internationally active family business, the HOYER Group takes its responsibility for the future of current and subsequent generations seriously. Together with our customers, we want to shape the future of logistics sustainably and to think and act in generational terms. For HOYER, sustainable social, ecological and economic behavior is practiced in everyday life.”

The new hydrogen truck is equipped with state-of-the-art technology that enables emission-free, efficient transport. The truck is a Hyundai ‘XCIENT Fuel Cell’ vehicle. hylane has equipped the vehicle with a dry box and air ducts, enabling it to meet the requirements of Nippon Gases and the HOYER Group for transporting dry ice.

According to **Sara Schiffer, Managing Director of hylane GmbH**, “We are delighted that Nippon Gases, in cooperation with the HOYER Group, is the first industrial gases company to use one of our hydrogen trucks in dry ice logistics. This underlines the versatility of our trucks, and shows that hydrogen-powered vehicles are a practical, sustainable alternative to diesel trucks.”

About Nippon Gases:

Nippon Gases, one of the leading industrial and medical gases companies in Europe, is part of the Nippon Sanso Holdings Corporation, which has over 100 years of experience and also boasts a major presence in Japan, Southeast Asia, Australia, the United States and Canada, operating in more than 30 countries with over 19,300 employees around the world. Our presence in Europe positions us as a leading company with over 3,200 employees of which 28.5% are women, operating today in 13 countries and serving more than 150,000 customers and over 350,000 homecare patients. Committed to innovation, collaboration, and sustainability, Nippon Gases upholds high safety standards and is recognized by leading industrial gases associations. Our commitment to our customers, employees and associates and to the communities in which we operate is a reflection of our dedication to the environment and to sustainability. Together, we are "The Gas Professionals" and we all have the same goal: "Making life better through gas technology". Based in Düsseldorf, Nippon Gases Deutschland produces at 14 sites throughout Germany, and has around 200 distribution partners.

About the HOYER GROUP:

The HOYER GROUP is a leading global provider of logistics solutions to transport liquids and gases for the chemical, foodstuffs, gas and mineral oil industries. With a comprehensive network and state-of-the-art technology, HOYER offers customized solutions for its customers. The current awards of the EcoVadis Silver Medal and the Hanse Globe 2024 underline the international logistics provider's commitment to greater sustainability.

About hylane GmbH:

Founded in Cologne in 2021, hylane is committed to sustainable, innovative mobility in the transport sector. To this end, hylane provides climate-friendly trucks from various manufacturers in a usage-based rental model. Leading transport companies already rely on hylane's rental model, and gather low-risk experience with new technologies – because they only pay for the kilometers actually driven. Three years after its foundation, hylane operates Europe's largest hydrogen-powered truck fleet.

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