**PRESS RELEASE**

**Northern Green Crane to provide industrial-scale green hydrogen import from Sweden by 2026**

* **Hydrogenious LOHC will implement one of the first industrial-scale green hydrogen import projects, transporting up to 8,000 tonnes per year from Sweden to Germany and the Netherlands by 2026**
* **With Sweden as a new source of green hydrogen production, Hydrogenious LOHC will not only connect a low-cost source to Central Europe but significantly improve the project setup**
* **All applications for the Northern Green Crane project have been forwarded to the European Commission and are awaiting approval for IPCEI status**

**Germany/Erlangen, 10 October 2022. Green Crane stands as a beacon for ramping-up a pan-European hydrogen transport infrastructure, to be enabled by the Liquid Organic Hydrogen Carrier (LOHC) technology. By establishing green hydrogen production in Sweden, the project is renamed to Northern Green Crane. The access to the source in Sweden significantly improves the former Green Crane project, and all landing points remain as planned by Hydrogenious LOHC Technologies with its industry partners Royal Vopak and the Get H2 initiative in Germany. Northern Green Crane will become one of the first industrial-scale green hydrogen import projects for Germany and the Netherlands, needed to increase Europe’s energy security and to contribute to the ambitious plans of the European Commission. With its strong European genes, Northern Green Crane and its partners are applying for the ‘Important Projects of Common European Interest’ (IPCEIs) funding scheme. All project applications have been submitted within the RHATL wave (Regional Hubs and Their Links) to the European Commission for approval.**

Backed by a strong consortium and with its unique LOHC technology, which serves as an efficient vector for the storage and transport of hydrogen, Northern Green Crane will be one of the first projects to import green hydrogen at industrial scale to the Netherlands and Germany by 2026. By using existing liquid fuel infrastructure, the project enables the acceleration of import activities, providing up to 8,000 tonnes of green hydrogen per year. It will lay strong steppingstones for future large-scale imports via LOHC, accessing low-cost green hydrogen sources as well as providing crucial conditions for the decarbonization of industry and mobility.

With green hydrogen production in Sweden the project accesses new green hydrogen sources and strengthens the landing locations in Germany and the Netherlands**.** Sweden as a producing country is characterized by its great renewable energy potential including hydro and wind power, as well as excellent corresponding infrastructure and industry players. The chosen country fulfils all the regulatory prerequisites for green hydrogen. Furthermore, with this setup, the project should meet all requirements proposed by the IPCEI framework, such as involving several EU countries and generating positive spillover effects across the EU. Additionally, the project has the potential to decarbonize local heat supply by injecting the excess heat of the hydrogenation plant into a heating grid. This sector coupling will create further positive climate effects. The project will be realized by storing green hydrogen in Liquid Organic Hydrogen Carrier (carrier material benzyl toluene) in Sweden with a 24-tonnes-hydrogen-per-day hydrogenation plant from Hydrogenious LOHC Technologies. Via approximately 40 shiploads per year, the LOHC loaded with hydrogen will be transported from Sweden to the Netherlands.

In Rotterdam, half of the hydrogen will be released in a newly 12-tonnes-hydrogen-per-day Hydrogenious LOHC’ dehydrogenation plant, to reach industry in the port and hinterland region. The other half of the hydrogen-loaded LOHC will be transported by barge via the river Ems to Lingen/Germany. There, the hydrogen will be released from the LOHC in another 12-tonnes-hydrogen-per-day Hydrogenious LOHC’ dehydrogenation plant and used by local industry as well as fed into a hydrogen pipeline as part of the GET H2 initiative.

The project provides a unique hydrogen network connecting low-cost green hydrogen sources and industry demand across Europe, accelerating import activities, and supporting Europe’s ambitious decarbonization goals.

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## Northern Green Crane project facts and route graphic, © Hydrogenious LOHC Technologies

## **About Hydrogenious LOHC**

Hydrogenious LOHC adds the missing link to high-performing hydrogen value chains globally. Based on its proven Liquid Organic Hydrogen Carrier (LOHC) technology with benzyl toluene as carrier medium, Hydrogenious LOHC allows for superior, flexible hydrogen supply to consumers in industry and mobility across the globe, utilizing conventional liquid-fuel infrastructure. Founded in 2013, the portfolio of the market-leading pioneer and its joint venture companies today includes stationary and mobile (on-board) LOHC-based applications: Hydrogenious LOHC Technologies, headquartered in Erlangen/Germany, offers – within an EPC partnership with Bilfinger – (de-)hydrogenation turnkey plants, Operation & Maintenance and LOHC logistics services – ensuring safe, easy and efficient hydrogen storage, transport and distribution. Hydrogenious LOHC Emirates, based in the United Arab Emirates and a joint venture with Emirates Specialized Contracting & Oilfield Services (ESCO), acts as the regional spearhead in the Middle East since the end of 2021. Hydrogenious LOHC Maritime, established in 2021 jointly with Østensjø Group and located in Norway, develops an emission-free onboard propulsion system with a promising LOHC/fuel cell solution for the global shipping industry. With its >180 staff members and investors AP Ventures, Royal Vopak, Winkelmann Group, Mitsubishi Corporation, Covestro, JERA Americas, Temasek, Hyundai Motor Company, Chevron Technology Ventures and Pavilion Capital, Hydrogenious LOHC is a major enabler and accelerator for the energy transition. [www.hydrogenious.net](http://www.hydrogenious.net) | [www.hydrogenious-emirates.ae](http://www.hydrogenious-emirates.ae) | [www.hydrogenious-maritime.net](http://www.hydrogenious-maritime.net)

## **About Royal Vopak**

Royal Vopak is the world’s leading independent tank storage company. We store vital products with care. The energy that allows people to cook, heat or cool their homes and for transportation. The chemicals that enable companies to manufacture millions of useful products. We have a track record of over 400 years in navigating change. We are developing infrastructure solutions for new vital products, focusing on hydrogen, ammonia, CO2, sustainable feedstocks and long duration energy storage. Vopak is listed on the Euronext Amsterdam and is headquartered in Rotterdam, the Netherlands. [www.vopak.com](http://www.vopak.com)

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