

Press Release

Hamburg Green Hydrogen Hub has commissioned Kraftanlagen to construct the infrastructure for 100 MW electrolyzer

Hamburg Green Hydrogen Hub and Kraftanlagen Energies & Services have signed a contract for the "Balance of Plant" works.

Hamburg/Munich, October 16th, 2025

At the site of the former Moorburg coal-fired power plant, the Hamburg Green Hydrogen Hub (HGHH) – a consortium of the two partners Luxcara and Hamburger Energiewerke – is building a 100 MW electrolysis plant for green hydrogen. The HGHH is one of the first large-scale green electrolysis projects in Germany and has set itself the goal of advancing the decarbonization of industry and the Port of Hamburg. The HGHH has commissioned Kraftanlagen Energies & Services (Munich) with the "Balance of Plant" area of responsibility for the construction of the plant infrastructure around the electrolyzer.

The contract covers the planning, delivery and construction of all ancillary technical and supply facilities for the project. These include power distribution and water treatment facilities, cooling and compressor stations, and connections to the hydrogen network and trailer loading station. This will allow for greater flexibility in transporting the produced green hydrogen.

Once the building complex has been completed, work is scheduled to begin in early 2026, with the aim of commissioning the plant infrastructure by the second half of 2027. This will enable Kraftanlagen to lay the essential foundations for integrating the 100 MW electrolyzer from Siemens Energy into the site and ensuring reliable future operation.

Preparatory construction work to stabilize the subsoil on the 16,000-square-meter HGHH site began in June. Around 10,000 tons of green hydrogen are set to be produced annually in Moorburg in future and will be made available to customers via connection to the HH-WIN distribution network and the trailer loading station.

Holger Matthiesen, Managing Director at HGHH and Director of Offshore Wind & Green Hydrogen at Luxcara, says: "We are delighted to have gained Kraftanlagen as an experienced partner from Germany, who will support us with their expertise in

implementing this pioneering project for the green hydrogen economy in Hamburg, as well as building and commissioning the electrolyzer and ancillary systems.”

Heinrich Dauer, Head of the Energy Business Unit at Kraftanlagen, emphasizes: “We are very proud to be implementing this project and supporting HGHH in realizing its vision. We will contribute our many years of expertise in power plant and plant construction to ensure the project's success. Moorburg, as a flagship project of the energy transition, embodies our shared vision for a green future.”

– End of press release –

The HGHH project

The Hamburg Green Hydrogen Hub (HGHH) project consists of two partners: Luxcara (74.9%) and Hamburger Energiewerke (25.1%). The consortium is constructing a 100 MW electrolysis plant for green hydrogen on the site of the former Moorburg coal-fired power plant in Hamburg. Commercial operation is expected to begin in 2027, with the facility set to produce around 10,000 tons of green hydrogen annually. This project will make a significant contribution to the decarbonization of the port, industry and transport sectors.

About Luxcara

Luxcara is an independent asset manager offering equity and debt investment opportunities to international investors in the global clean energy infrastructure market. The Hamburg-based company acquires, structures, finances and operates clean infrastructure projects with a long-term, buy-build-operate approach for the clean energy transition. Luxcara’s longstanding focus on unsubsidized markets has made the company one of Europe’s most prominent investors in projects with long-term power purchase agreements. The company’s portfolio includes clean energy infrastructure across Europe. Their track record, dating back to 2009, makes Luxcara one of the continent’s most experienced asset managers for clean energy investments.

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About Hamburger Energiewerke

Hamburger Energiewerke GmbH is a 100 percent municipal energy supplier. The company supplies more than 160,000 customers in Hamburg with green electricity and gas. Hamburger Energiewerke also operates one of the largest district heating networks in Germany, supplying over 538,000 residential units with city heat for heating and hot water. Over 1,000 employees at the municipal energy supplier are committed to the success of the energy and heating transition. By 2030 at the latest, heat generation from hard coal will be completely replaced and the heat supply will be climate-neutral by 2045.

At the same time, the portfolio of renewable energy plants will be expanded. Hamburger Energiewerke is making the largest single contribution to achieving Hamburg's climate targets.

About Kraftanlagen

Kraftanlagen Energies & Services is part of Equans, a world leader in the energy and services sector, operating in 20 countries, with 90,000 employees working on 5 continents and an annual turnover of more than €19 billion. As a multifaceted partner for energy, industry and building services, Kraftanlagen Energies & Services shapes the future of our society. Through its state-of-the-art system technology and flexible, customised solutions, Kraftanlagen makes an important contribution to the energy transition and climate protection across the entire value chain. The company is committed to decarbonisation and sustainable projects and innovations that make our lives easier and more liveable. With more than 2,000 employees, Kraftanlagen provides a comprehensive network of services through its companies and holdings at numerous locations and undertakes both large-scale projects in the role of general contractor and individual projects.

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