



Media Information

Nordhausen, 08 November 2022

Maximator Hydrogen wins one of the largest contracts for hydrogen filling stations

Massive expansion of the Swedish H₂ infrastructure network with 24 hydrogen filling stations in the REH2 project

Nordhausen, 08 November 2022. Maximator Hydrogen GmbH has been contracted by REH2 to supply hydrogen filling stations in Sweden to expand the world's densest network of hydrogen filling stations. The cooperation furthers the strategic expansion of a national renewable fuel infrastructure for heavy trucks in Sweden. The hydrogen filling stations will use the new MAX Compression 2.0 compressor, launched by Maximator Hydrogen in June 2022. The delivery of the first filling station is planned for autumn 2023, and the other 23 filling stations will follow on a monthly cycle from 2024.

"Our top priority is to actively shape the mobility revolution by providing the necessary infrastructure," explains Mathias Kurras, Managing Director of Maximator Hydrogen GmbH. "So, we are excited to have REH₂ as a partner. Together, we intend to promote and further expand sustainable and low-emission transport routes in Sweden." The Swedish company, REH₂, specializes in the production and delivery of green hydrogen to operators of H₂ filling stations. Renewable energies, primarily from wind power and local water sources, provide the basis for this energy generation.

Part of the cooperation – and so unique to Sweden – is also Rasta, the country's largest service station chain for trucks, and which is building 23 of the 24 hydrogen filling stations at its locations. For the rest area operators, the hydrogen filling stations will add an additional service to their existing range of restaurants, shops and hotels. The locations are strategically located along the major Swedish motorways and therefore are a vital component to expand hydrogen mobility for trucks and promote emission-free transport in Sweden. The cooperation is financed by the investment of Qarlbo, a Swedish investment company engaging in the sustainability sector, and Climate Leap, an investment programme of the Swedish Environmental Protection Agency to support local and regional initiatives to reduce greenhouse gas emissions.

Reduction of operating and maintenance costs thanks to patented H₂ technology 2.0

Maximator Hydrogen has already started production of the 24 hydrogen filling stations and plans to deliver the first system in autumn 2023. The final systems are to be delivered by the end of 2025. The ordered H₂ filling stations have the latest and highly efficient compressor generation, MAX Compression 2.0, which works with the same installation space and optimized energy requirements as its predecessor, but with up to five times the performance. In this way, the hydrogen for use in fuel cells or combustion engines can be compressed at high pressure directly during refueling and without the intermediate storage that has been customary up to now. This increases the performance and cost-effectiveness of the system by more than 25 percent. In addition, the MAX Compression 2.0 is equipped with the unique and globally-patented Automatic Seal Exchange (ASX) seal change technology. With this, the regularly required seal change of the piston seals in the fueling system – which are exposed to increased wear due to contact with hydrogen – takes place automatically and within 15 seconds. Unwanted downtimes and cost-intensive replacement processes within the hydrogen filling station are therefore reduced to an industry-wide minimum. "Smart solutions like the Automatic Seal Exchange are real game changers," comments Christoffer Löffström, CEO and founder of REH₂, on the cooperation: "With the innovative power of Maximator Hydrogen, we can actively pursue our mission to advance green mobility in Sweden."

For more information, see <https://www.maximator-hydrogen.de/>

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About Maximator Hydrogen

Maximator Hydrogen GmbH from Nordhausen is a leading provider and developer of comprehensive system solutions for the entire value chain of hydrogen technologies. With around 160 employees, the company combines unique expertise with the know-how of around 700 H₂-relevant patents. As a fast and efficient partner for the planning, construction and operation of hydrogen infrastructure for road, rail and ship traffic, Maximator Hydrogen GmbH, a Schmidt Kranz Group company, offers highly reliable and modern hydrogen filling stations from a single source. With its high performance, flexibility and speed, Maximator Hydrogen GmbH is a key partner for specifically tailored hydrogen solutions for large international companies and corporations.

About Qarlbo and REH2

Qarlbo is a family-owned Swedish investment company with an infinite investment horizon. As an active owner Qarlbo partners with ingenious entrepreneurs and provides capital, expertise, and access to Qarlbo's network. The company engages in, but is not limited to, the following sectors: Entertainment; Hospitality; Environment; Health & Lifestyle; Property and Financial Investments.

REH2 is a subsidiary of Qarlbo and the project was initiated with the purpose to create a scalable platform for rapid expansion of hydrogen based infrastructure to meet the strong demand for fossil free transportation. REH2 and its dedicated team is located in Gothenburg, Sweden, and have a strong focus to create true green mobility.