

Air Liquide supports the development of a liquid hydrogen plant in South Korea

Air Liquide Engineering & Construction has signed an agreement with Doosan Heavy Industries to support the construction of a liquid hydrogen plant in Changwon, South Korea as an enabler of clean transport development in the country.

As part of the agreement, Air Liquide will provide the engineering and procurement of the Hydrogen Liquefier, bringing its extensive experience in the design, engineering and operation of ultra low temperature liquefaction plants.

The plant will be built within the grounds of Doosan's site in Changwon and will be able to produce 5 tons of liquid hydrogen per day to service hydrogen charging stations nationwide once in operation. The first industrial hydrogen production is envisaged in early 2023.

Hydrogen is one of the solutions to the environmental challenges of clean transportation: reduction of greenhouse gases, of pollution in cities, and of dependency on fossil fuels. For more than 50 years, Air Liquide has been developing unique expertise in the mastery of the entire hydrogen chain (production, storage, and distribution).

South Korea is amongst the leading countries in the development of hydrogen as a clean energy source. This new liquefier is in line with the government plan to considerably densify the network of hydrogen stations in the country with as much as 310 stations and more than 67,000 hydrogen vehicles across the country by 2022.

David Maloney, Vice President and Chairman of Air Liquide Engineering & Construction stated **«We are proud to partner with Doosan and contribute to the development of the liquid hydrogen plant in South Korea to support the country's transition to a low-carbon economy. Drawing on our more than 50 years of experience in hydrogen, we provide our customers with state-of-the-art technologies and solutions that enable delivery of such important projects to contribute to the development of clean mobility and a more sustainable future.»**

Air Liquide Engineering and Construction

Air Liquide Engineering & Construction builds Air Liquide Group production units (mainly air gas separation and hydrogen production units) and provides external customers with efficient, sustainable, customized technology and process solutions. Air Liquide Engineering & Construction's core expertise in industrial gases, energy conversion and gas purification, enables customers to optimize natural resources. This business unit covers the entire project life-cycle: license engineering services / proprietary equipment, high-end engineering & design capabilities, project management & execution services. As a technology partner, customers benefit from our research and development to contribute to energy transition. In 2019, revenues were €328 million.

CONTACTS

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A world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 67,000 employees and serves more than 3.7 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

Air Liquide's ambition is to be a leader in its industry, deliver long term performance and contribute to sustainability. The company's customer-centric transformation strategy aims at profitable, regular and responsible growth over the long term. It relies on operational excellence, selective investments, open innovation and a network organization implemented by the Group worldwide. Through the commitment and inventiveness of its people, Air Liquide leverages energy and environment transition, changes in healthcare and digitization, and delivers greater value to all its stakeholders.

Air Liquide's revenue amounted to 22 billion euros in 2019 and its solutions that protect life and the environment represented more than 40% of sales. Air Liquide is listed on the Euronext Paris stock exchange (compartment A) and belongs to the CAC 40, EURO STOXX 50 and FTSE4Good indexes.