

## Japan: Air Liquide completes construction of two hydrogen filling stations for the general public in Nagoya and Toyota

Today, Air Liquide held a completion ceremony for **two hydrogen filling stations in the Aichi Prefecture of Japan. The new stations were developed in** a collaborative joint venture between Air Liquide Japan and Toyota Tsusho Corp., **Toyotsu Air Liquide Hydrogen Energy**.

**Nagoya Atsuta Hydrogen Station** and **Toyota Interchange Hydrogen Station** are **the first public-use hydrogen filling stations** for Fuel Cell Electric Vehicles in the central Nagoya area and in Toyota City, respectively. They make it possible to fill Fuel Cell Electric Vehicles in **less than 3 minutes per car**, offering an autonomy that can reach up to 500km in range.

Air Liquide Japan was responsible for the design and installation of these “compressed hydrogen off-site” stations which were **designed using Air Liquide Group expertise** acquired from installing **more than 60** hydrogen filling stations around the world, and supplying the molecule for a variety of industrial applications over the past 50 years.

Prior to the ceremony, on January 18th, Air Liquide welcomed **Mr. Michel Sapin, French Minister of Finance and Public Accounts** at the Nagoya Atsuta Station. The Minister was visiting Japan for the first time in order to strengthen the bilateral economic relation between France and Japan. He praised the joint-venture of Air Liquide and Toyota Tsusho as a showcase of innovative partnership and a valuable contribution to the fight against global warming, a top priority for France as host and Chair of the United Nations Climate Change Conference “COP21” that will take place in Paris next December

Air Liquide is actively involved in the development of the hydrogen energy industry globally, already operating hydrogen filling stations for the general public in **Europe**, including Rotterdam in the Netherlands, Düsseldorf in Germany, and in Denmark as well as in the **USA**. Very present in this sector in **Japan**, the group has already built three hydrogen stations, in **Tokyo, Kawasaki** and **Saga**.

Hydrogen has great potential to provide clean energy. Used in the fuel cell, hydrogen combines with oxygen from the air to produce electricity, emitting clean water as the only by-product. Air Liquide is present across the entire hydrogen supply chain, from production to storage, distribution and the development of end user applications, thus helping to drive the widespread use of hydrogen as a clean energy.

**Shiro YAHARA**, President and CEO of Air Liquide Japan, commented: ***"I am delighted to announce the opening of both stations in Nagoya and Toyota. Air Liquide is fully committed to the development of hydrogen mobility, using our proven experience and expertise in this field around the globe. Supporting the development of sustainable new energy in Japan, which leads in automotive manufacturing and other high technologies, provides a great opportunity for the Air Liquide Group to demonstrate our commitment to meeting the worldwide demand for innovative energy solutions in today's rapidly changing environment."***

### **Air Liquide in Japan**

Established in 1907 in Japan, Air Liquide now serves 15,000 customers across the country, particularly in Electronics, thanks to its 2,300 employees. The Group also has a Research and Technology Centre in Tsukuba (near Tokyo) and an

[www.airliquide.com](http://www.airliquide.com)

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### **The Toyotsu Air Liquide Hydrogen Energy JV**

**Name:** Toyota Tsusho Air Liquide Hydrogen Energy Corporation

**Headquarters** in Naogya, Aichi (in Toyota Tsusho Corp. Head office)

**Capital:** €3.7 M (495 M yen) Toyota Tsusho 51%, Air Liquide Japan 49%

### **Hydrogen, a clean energy carrier**

Hydrogen can be produced from a wide range of energy sources, natural gas in particular, but also from renewable energy sources.

With its **Blue Hydrogen commitment**, Air Liquide is moving towards a gradual decarbonisation of its hydrogen production dedicated to energy applications. In practical terms, Air Liquide is committed to producing at least 50 % of the hydrogen necessary for these applications through carbon-free processes by 2020, by combining:

- renewable energy sources, water electrolysis and biogas reforming,
- carbon capture and storage technologies during the hydrogen production process based on natural gas.

Hydrogen is already a highly efficient energy carrier when produced from natural gas: for the same distance covered, hydrogen vehicles enable to reduce well-to-wheel greenhouse gas emissions by 20% compared with internal combustion vehicles.

## CONTACTS

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World leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with more than 50,000 employees and serves more than 2 million customers and patients. Oxygen, nitrogen and hydrogen have been at the core of the company's activities since its creation in 1902. Air Liquide's ambition is to be the leader in its industry, delivering long-term performance and acting responsibly.

Air Liquide ideas create value over the long term. At the core of the company's development are the commitment and constant inventiveness of its people.

Air Liquide anticipates the challenges of its markets, invests locally and globally, and delivers high-quality solutions to its customers and patients, and the scientific community.

The company relies on competitiveness in its operations, targeted investments in growing markets and innovation to deliver profitable growth over the long-term.

Air Liquide's revenues amounted to €15.2 billion in 2013, and its solutions that protect life and the environment represented around 40% of sales. Air Liquide is listed on the Paris Euronext stock exchange (compartment A) and is a member of the CAC 40 and Dow Jones Euro Stoxx 50 indexes.

