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### Hydrogen, an energy vector

Used in a fuel cell, hydrogen combines with oxygen in the air to produce electricity with only water as a by-product. Hydrogen can be produced from a range of energy sources, natural gas in particular, but also renewable energy sources. Hydrogen thus has great potential to provide clean energy and ensure reliability of supply.

### Hydrogen energy demonstration projects

Air Liquide is taking part in demonstration projects that aim to develop and test hydrogen energy and help it to promote its social acceptance. Over the last four years, Air Liquide has designed, built and commissioned more than 40 stations which are fueling passenger vehicles, buses and forklift trucks as well as stationary equipment in Europe, Canada and the Pacific Rim.



Houston, December 16, 2009

## Air Liquide completes hydrogen fueling project for Shell Hydrogen

press release

Reducing greenhouse gases and pollution in cities is one of society's main challenges and a core commitment of Air Liquide in the pursuit of sustainable development. Using hydrogen as energy for transportation is a promising solution for sustainable mobility.

Air Liquide has completed the installation of a fueling system for Shell Hydrogen in the Bronx, New York. In addition to the fueling equipment, Air Liquide is also supplying the hydrogen gas and liquid nitrogen required for operations. The station will provide fueling capability in support of General Motors' Project Driveway vehicles and serve as another site in the network being developed in New York in anticipation of other auto manufacturers introducing fuel cell vehicles to the area. Air Liquide's technology is also used at a station in Ardsley, New York.

Air Liquide has also provided fueling systems in California and Delaware, and in many countries around the world. Air Liquide's hydrogen fueling systems are built in the U.S. with proprietary engineering designs from Air Liquide Advanced Technologies U.S. LLC. The technology is capable of filling a car at 700 bar (10,000 p.s.i.) pressure in less than five minutes.

Michael J. Graff, a member of Air Liquide's executive committee and president and CEO of American Air Liquide Holdings, Inc., states: ***"Air Liquide's innovative hydrogen technologies are powering vehicles and equipment while protecting the environment. With more than 40 years of experience in hydrogen and numerous related patents, Air Liquide is helping to build the hydrogen energy infrastructure, to demonstrate its benefits to society and prepare for future markets."***

*Air Liquide is the world leader in gases for industry, health and the environment, and is present in over 75 countries with 43,000 employees. Oxygen, nitrogen, hydrogen and rare gases have been at the core of Air Liquide's activities since its creation in 1902. Using these molecules, Air Liquide continuously reinvents its business, anticipating the needs of current and future markets. The Group innovates to enable progress, to achieve dynamic growth and a consistent performance.*

*Innovative technologies that curb polluting emissions, lower industry's energy use, recover and reuse natural resources or develop the energies of tomorrow, such as hydrogen, biofuels or photovoltaic energy... Oxygen for hospitals, homecare, fighting nosocomial infections... Air Liquide combines many products and technologies to develop valuable applications and services not only for its customers but also for society.*

*A partner for the long term, Air Liquide relies on employee commitment, customer trust and shareholder support to pursue its vision of sustainable, competitive growth. The diversity of Air Liquide's teams, businesses, markets and geographic presence provides a solid and sustainable base for its development and strengthens its ability to push back its own limits, conquer new territories and build its future.*

*Air Liquide explores the best that air can offer to preserve life, staying true to its sustainable development approach. In 2008, the Group's revenues amounted to €13.1 billion, of which almost 80% were earned outside France. 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.*

<http://www.hydrogen-planet.com/>