

Four new hydrogen filling stations in Denmark

Air Liquide is going to install four new hydrogen filling stations in Denmark, as part of the Copenhagen Hydrogen Network, supported by the European Commission.

These four filling stations - **two in Copenhagen**, **one in Aalborg** and **one in Vejle** - will join two stations already in service, **located in Copenhagen** and **in Holstebro**. This development is a significant step in the creation of a **distribution network at national level**.

With these filling stations, which will be commissioned by Air Liquide with the help of its partner H2 Logic by the end of 2014, Fuel Cell Electric Vehicles will be able to refuel **all over the country** in **under five minutes**, for **a range of 500 km**.

All of these filling stations will be fitted with an electrolyser, allowing them to produce the hydrogen on site. This additional technology will produce **totally decarbonised hydrogen** (with no CO₂ emissions) using clean electricity from renewable energy sources as part of the plan announced by the **Danish government** in 2012, whose target is to have 100 % of renewable energies by 2050.

Air Liquide is actively involved in setting up the hydrogen energy industry at global level, in particular through initiatives aimed at building hydrogen filling stations in Germany, Belgium and the Netherlands, France, Great Britain, Switzerland, the USA, South Korea and Japan. In 2012, Air Liquide inaugurated its first hydrogen filling station for the general public, in Düsseldorf, Germany.

Hydrogen helps to preserve the environment by providing solutions for the challenges of sustainable mobility: to reduce greenhouse gas emissions as well as local pollution in urban areas. The creation of a **distribution infrastructure** is **one of the key challenges** for the **commercial development of Fuel Cell Electric Vehicles**.

François Darchis, member of Air Liquide's Executive Committee supervising Innovation, commented: **"The creation of a network of hydrogen filling stations in Denmark represents a significant step forward. This is the first hydrogen infrastructure network in Europe at the level of an entire country. This new project is testimony to Air Liquide's commitment to rolling out hydrogen technologies in order to advance sustainable mobility."**

Hydrogen, a clean energy carrier

Used in the fuel cell, hydrogen combines with oxygen from the air to produce electricity, with water as the only by-product. Hydrogen can be produced from a wide range of energy sources, natural gas in particular, but also from renewable energy sources. Hydrogen is, therefore, one of the solutions for providing clean energy and ensuring reliability of supply.

Air Liquide is present across the entire hydrogen energy chain (production, distribution, high-pressure storage, fuel cells, and hydrogen filling stations).

Blue Hydrogen

With Blue Hydrogen, 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.

Air Liquide in the Nordic countries

Air Liquide is present in Denmark, Norway, Finland, and Sweden, with more than 500 employees. The Group operates a total of 50 sites in these countries, and serves more than 50,000 customers in most industries and healthcare.

H2 Logic

H2 Logic is a Danish company that is one of the biggest producers of zero emission fuel cell systems for handling devices and hydrogen refuelling stations for fuel cell vehicles.

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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.