

Joint press release

NEW HYDROGEN STATION IN HANNOVER

- **CEP partner Linde put new H₂ station in Hannover into operation**
- **Funding by the Federal Ministry of Transport and Digital Infrastructure (BMVI) under the National Innovation Programme for Hydrogen and Fuel Cell Technology (NIP)**

Hannover, 10 December 2018 – The hydrogen infrastructure is growing steadily, and emission-free fuel-cell vehicles can now refuel at more and more locations. Linde, a Clean Energy Partnership (CEP) partner, has now opened another hydrogen station in Hanover.

The new filling station is on the grounds of Linde's own 'Gas and More' retail outlet in Industrieweg. It is one of the first filling stations to be built nationwide as part of the Clean Energy Partnership and with support from the Federal Ministry of Transport and Digital Infrastructure (BMVI). The Industrieweg H₂ station received approximately €450,000 in funding from the National Innovation Programme for Hydrogen and Fuel Cell Technology (NIP). The investor and owner is Linde; the hydrogen facility is operated by the joint venture H₂ MOBILITY Deutschland.

Linde is using a new generation of its proprietary cryogenic pump, which converts the liquid hydrogen stored into a gaseous state compressed to 900 bar. For drivers, its operation is intuitive, and the refuelling process takes three to five minutes. This advanced technology is also used at Linde stations in the USA, Japan and China. It allows for refuelling up to 200 cars a day in Hanover. The capacity of the liquid tanks can be increased from the current 400 kg to 800 kg if required.

Hydrogen-powered e-mobility reduces CO₂ emissions

Hydrogen (H₂) provides a way to expand the range of fuels available in the transport sector in a climate-friendly way, as H₂ produced with renewable energy can help to significantly reduce climate-damaging CO₂ emissions. The operation of a hydrogen-powered fuel-cell vehicle causes no local pollutants or carbon dioxide (CO₂) emissions. The range of these vehicles is between 500 and 800 kilometres per tank of fuel.

To turn electromobility powered by hydrogen and fuel cells into a success story requires both an attractive range of fuel cell vehicles and, at the same time, a corresponding supply infrastructure. The expansion of the corresponding filling station network is progressing well. There are currently 55 H₂ filling stations in Germany; by the end of 2019 there will be 100 stations across the nation.

The Clean Energy Partnership (CEP) demonstration project laid the foundation for the expansion of the hydrogen infrastructure in Germany by defining common standards and norms.

The **Clean Energy Partnership (CEP)** is an industrial partnership dedicated to the market activation and system capability of hydrogen and fuel cell mobility, with a view to achieving a sustainable energy transition. Air Liquide, Audi, BMW, Daimler, H₂ Mobility, Honda, Hyundai, Linde, OMV, Shell, Total, Toyota, and the Westfalen Group are involved in the project. www.cleanenergypartnership.de

Founded by CEP partners, **H₂ Mobility**, a company whose shareholders are Air Liquide, Daimler, Linde, OMV, Shell, and Total, is responsible for the Germany-wide expansion of the hydrogen infrastructure. BMW, Honda, Hyundai, Toyota, Volkswagen, and NOW GmbH advise H₂ Mobility as associated partners. The H2.LIVE app lets you track how the filling station network is growing. www.h2.live.de, www.h2-mobility.de

The **NOW GmbH (National Organisation for Hydrogen and Fuel Cell Technology)** coordinates – on behalf of Germany's Federal Government – funding programmes for the development of electromobility with batteries and fuel cells. www.now-gmbh.de

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