



## Daimler, Linde and partners to build new hydrogen fuelling stations in Germany

- Daimler/Linde joint initiative enters implementation phase
- 13 new refuelling locations by the end of 2015
- Sustainable sourcing of hydrogen (H<sub>2</sub>) secured
- Supported by the German National Innovation Programme (NIP)

**Munich/Stuttgart, 8 October 2014** - Automobile manufacturer Daimler and gases and engineering company The Linde Group will team up with oil and gas companies TOTAL, OMV, Avia and Hoyer this year to significantly increase the number of hydrogen fuelling stations in Germany. To this end, the two companies are investing around EUR 10 million in ten fuelling stations each. On 29 September, the first of the Daimler- and Linde-initiated public fuelling stations for fuel-cell vehicles was officially opened at a TOTAL multi-energy fuelling station on Jafféstrasse in Berlin-Charlottenburg. The following locations have been earmarked for additional stations by the end of 2015:

- TOTAL:
  - Geiselwind, Bavaria, on the A3
  - Fellbach, Stuttgart region
  - Ulm
  - Karlsruhe
  - Neuruppin, Brandenburg, on the A24
  - Cologne-Bonn Airport
  - Berlin city centre (upgrade of the existing fuelling station at Holzmarktstrasse)
- OMV:
  - Greater Munich area
  - Greater Nurember area
  - Greater Stuttgart area
- AVIA:
  - Stuttgart-East

– Hoyer:

– Leipzig, in the vicinity of the A14

“We are pleased to be driving this expansion of Germany’s H<sub>2</sub> fuelling network,” comments Dr Andreas Opfermann, Head of Clean Energy & Innovation Management at Linde. “We are making a valuable contribution to the successful commercialisation of fuel-cell vehicles while supporting initiatives like the Clean Energy Partnership (CEP) and ‘H<sub>2</sub> Mobility’.”

“There is no question that fuel-cell technology is reaching maturity. From 2017, we are planning to bring competitively priced fuel-cell vehicles to market. So now is the time to build a nationwide fuelling infrastructure. The aim is to enable motorists to reach any destination in Germany in their hydrogen-fuelled vehicles. This initiative is a huge step forward on the journey to a truly nationwide H<sub>2</sub> network,” states Professor Herbert Kohler, Vice President Group Research & Sustainability and Chief Environmental Officer at Daimler AG.

Negotiations on the details and construction of the remaining seven refuelling locations with additional partners are at an advanced stage. The National Organisation Hydrogen and Fuel Cell Technology (NOW) is supporting the project as part of the Hydrogen and Fuel Cell Technology National Innovation Programme (NIP).

Linde already secures half of the hydrogen for existing CEP fuelling stations from “green” sources, and it will power the 20 new stations with fully regenerative hydrogen. The gas is obtained from crude glycerol – a by-product of biodiesel production – at a dedicated pilot plant at Linde’s gases centre in Leuna. The certified green hydrogen obtained in this way produces far fewer greenhouse gas emissions than conventional methods. Linde also has other sustainable sources at its disposal like bio natural gas and water electrolysis using wind-generated electricity, as part of the ‘H2BER’ project for example.

From 2017, Daimler AG plans to bring mass-produced competitively priced fuel-cell electric vehicles to market. To speed up technology optimisation and minimise investment costs, the company formed an alliance with Ford and Nissan at the start of 2013 for the joint development of a drive concept. Experts reckon that in 2018, well over ten thousand fuel-cell vehicles will populate European roads.

By the end of 2015, the number of H<sub>2</sub> fuelling stations supporting this growing fleet in Germany is set to reach 50 with the support of the Federal Ministry for Transport along with partner companies and organisations (see <http://www.now-gmbh.de/en/presse-aktuelles/2014/50-h2-refuelling-stations.html>). Furthermore, the ‘H<sub>2</sub> Mobility’ initiative, which Daimler, Linde, TOTAL and OMV are also part of, agreed last year on a detailed plan of action to expand the network to around 400 stations by 2023. Furthermore, the ‘H<sub>2</sub> Mobility’ initiative, which Daimler, Linde, TOTAL and OMV are also part of, agreed last year on a detailed plan of action to expand the network to around 400 stations by 2023.

In July this year, Linde opened the world’s first small-scale production facility for hydrogen fuelling stations in Vienna.

### **About The LindeGroup**

In the 2013 financial year, The Linde Group generated revenue of EUR 16.655 bn, making it the largest gases and engineering company in the world with approximately 63,500 employees working in more than 100 countries worldwide. The strategy of The Linde Group is geared towards long-term profitable growth and focuses on the expansion of its international business with forward-looking products and services. Linde acts responsibly towards its shareholders, business partners, employees, society and the environment – in every one of its business areas, regions and locations across the globe. The company is committed to technologies and products that unite the goals of customer value and sustainable

development.

Under the "Clean Technology by Linde" label, the company offers a wide range of products and technologies that help to render renewable energy sources financially viable, and significantly slow down the depletion of fossil resources or reduce the level of CO<sub>2</sub> emitted. This ranges from specialty gases for solar module manufacturing, industrial-scale CO<sub>2</sub> separation and application technologies to alternative fuels and energy carriers such as liquefied natural gas (LNG) and hydrogen.

For more information go to <http://www.linde.com/cleantechnology>.

### **About Daimler**

Daimler AG is one of the world's most successful automotive companies. With its divisions Mercedes-Benz Cars, Daimler Trucks, Mercedes-Benz Vans, Daimler Buses and Daimler Financial Services, the Daimler Group is one of the biggest producers of premium cars and the world's biggest manufacturer of commercial vehicles with a global reach. Daimler Financial Services provides financing, leasing, fleet management, insurance and innovative mobility services. The company's founders, Gottlieb Daimler and Carl Benz, made history with the invention of the automobile in the year 1886. As a pioneer of automotive engineering, Daimler continues to shape the future of mobility today: The Group's focus is on innovative and green technologies as well as on safe and superior automobiles that appeal to and fascinate its customers. For many years now, Daimler has been investing continually in the development of alternative drive systems with the goal of making emission-free driving possible in the long term. So in addition to vehicles with hybrid drive, Daimler now has the broadest range of locally emission-free electric vehicles powered by batteries and fuel cells. This is just one example of how Daimler willingly accepts the challenge of meeting its responsibility towards society and the environment. Daimler sells its vehicles and services in nearly all the countries of the world and has production facilities on five continents. Its current brand portfolio includes, in addition to the world's most valuable premium automotive brand, Mercedes-Benz, the brands smart, Freightliner, Western Star, BharatBenz, Fuso, Setra and Thomas Built Buses. The company is listed on the stock exchanges of Frankfurt and Stuttgart (stock exchange symbol DAI). In 2013, the Group sold 2.35 million vehicles and employed a workforce of 274,616 people; revenue totaled €118.0 billion and EBIT amounted to €10.8 billion.

For more information about Daimler, see [www.media.daimler.com](http://www.media.daimler.com) and [www.daimler.com](http://www.daimler.com)

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