SIEMENS

Press

Munich, June 4, 2015

Siemens builds first eHighway in Sweden

- **First demonstration project in Europe, in partnership with truck manufacturer Scania**
- **Electrified road transport cuts energy consumption in half and reduces local air pollution**
- **Sweden is aiming for fossil independent transport sector by 2030**

Siemens will install a catenary system for hybrid trucks in Sweden. The contract was awarded by the Swedish Transport Administration to the County Council of Gävleborg. The catenary system will electrify a two-kilometer stretch of the E16 highway north of Stockholm in the context of a demonstration project. The test results will be available two years from the start of the demonstration phase and are intended to demonstrate the system's suitability for future commercial use. Sweden has set ambitious climate targets - the aim is to develop a fossil fuel independent transport sector by 2030.

"The eHighway is twice as efficient as internal combustion engines. This means that not only is energy consumption cut in half but also local air pollution is reduced," says Roland Edel, Chief Technology Officer of Siemens Mobility. "The electric hybrid is the first step on the road to electrically powered vehicles that will come to play an increasingly important role in the development of sustainable freight transport."

The core of the system is an intelligent pantograph combined with a hybrid drive system. A sensor system enables the pantograph to hook up to the catenary system and disconnect automatically at speeds of up to 90 km/h. Trucks equipped with the system draw power from the overhead catenary wires as they drive, enabling them to travel efficiently and with zero local emissions. On roads without any catenary infrastructure, the vehicles in Sweden can make use of their diesel hybrid system.

Siemens AG
Communications and Government Affairs
Head: Stephan Heimbach

Wittelsbacherplatz 2
80333 Munich
Germany

Reference number: PR2015060246MOEN

As an alternative, the system can run, for example, on compressed natural gas or a battery.

“The eHighway concept developed by Siemens combines tried and tested rail technology with the flexibility of road transport,” says Jan Nylander, project leader for the County Council of Gävleborg. “Combined with Scania’s hybrid technology, employed fuel consumption and emissions will be cut while the intelligent pantograph ensures that eHighway vehicles are just as flexible as conventional vehicles.”

The demonstration project will be conducted on the E16 which connects the regions of Dalarna and Gävleborg, industrial regions dominated by steel, pulp and paper, and mining industries, with the port of Gävle. Two vehicles will be used in the demonstration phase. These are electric hybrid trucks manufactured by Scania and adapted, in collaboration with Siemens, to operate under the catenary system.

In California, Siemens is working with vehicle manufacturer Volvo and local truck retrofitters on a demonstration project for the South Coast Air Quality Management District (SCAQMD). This project is testing how different truck configurations interact with the eHighway infrastructure set up in the vicinity of the ports of Los Angeles and Long Beach.

This press release, **material** and **press photos** are available at www.siemens.com/press/ehighway

Contact for journalists
Silke Reh
Phone: +49 89 636-630368; E-mail: silke.reh@siemens.com

Follow us on Twitter: www.twitter.com/siemens_press

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is No. 1 in offshore wind turbine construction, a leading supplier of combined cycle turbines for power generation, a major provider of power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2014, which ended on September 30, 2014, Siemens generated revenue from continuing operations of €71.9 billion and net income of €5.5 billion. At the end of September 2014, the company had around 343,000 employees worldwide on a continuing basis. Further information is available on the Internet at www.siemens.com.