

Press Release

European project H2MOVES coordinated by Ludwig-Bolkow-Systemtechnik

20 July 2010

Electric vehicles with fuel cells in daily operation

Munich/Oslo. A large demonstration project on electric vehicles with fuel cells will take place in Scandinavia. H2MOVES will bring seventeen state-of-the-art electric vehicles with fuel cells from Daimler and FIAT to Oslo and will include the establishment of a large scale hydrogen refuelling station by H2 Logic. The project has a budget of € 19.5 million and is coordinated by Ludwig-Bolkow-Systemtechnik (Germany).

Electric vehicles with fuel cells that run on hydrogen are seen to be one among several sustainable supplements to fossil fuels enabling the same convenient transportation as today. Within the H2MOVES-project ten Mercedes-Benz B-class F-CELL cars from Daimler (Germany), two Alfa Romeo MiTo fuel cell vehicles from Centro Ricerche FIAT (Italy) and five electric city cars with fuel cell range extension from H2 Logic (Denmark) will in 2011 be provided for daily operation in Oslo and on specific tours in southern Norway and the whole Scandinavian region.

A hydrogen refuelling station from H2 Logic will be designed and built in Oslo. The objective is to provide hydrogen with a fully integrated purchase interface and in an urban environment within one of the densest hydrogen fuelling station network in Europe. The station will comply with the latest international hydrogen refuelling standard SAE J2601, that ensures a safe and fast refuelling in few minutes. The hydrogen supply will be based on a combination of onsite production and trucked-in hydrogen, all based on Norwegian electricity of which more than 90% is based on renewable hydro and wind power.

During the project some of the fuel cell vehicles will be employed on a European hydrogen vehicle demonstration tour, coordinated by Hydrogen Sweden and in collaboration with the European Regions' and Municipalities' Partnership on Hydrogen and Fuel Cells (HyRaMP). For the on-site refuelling of hydrogen during the vehicle demonstration tours H2 Logic will develop a mobile hydrogen refuelling

concept for provision of almost 100% CO₂ free hydrogen. A safety and certification study will be carried out by TÜV SÜD (Germany) and SP Technical Research Institute of Sweden to identify the certification gaps in Scandinavia to accelerate full commercialization of vehicles and fuelling stations.

The € 19.5 million project H2MOVES will be the first large scale demonstration project supported by the newly established European Fuel Cells and Hydrogen Joint Undertaking Programme. This collaborative public private partnership whose total budget amounts to €1 billion to be invested by 2014 supports the H2MOVES project together with national funds from the Norwegian „Transnova programme“ and the Danish „EUDP programme“ as well as industry contributions.

„These initiatives will help take yet another crucial step towards the mass production of electric vehicles with fuel cells around 2015 and the establishment of sufficient infrastructure to provide renewable hydrogen“, said Dr. Ulrich Bünger of Ludwig-Bolkow-Systemtechnik (Germany), Project Coordinator of H2MOVES Scandinavia.


„One of the key technology contributions in the fight against climate change will be the electrification of the drive train in cars and city busses. The combination of batteries and fuel cells allow the drivers to enjoy the same range, and even better comfort and performance than commercially available vehicles provide today“, said Dr. Steffen Møller-Holst at SINTEF, Norway Project Coordinator of H2MOVES Oslo.

For more information see www.h2moves.eu and www.scandinavianhydrogen.org, or contact the projects' secretariats as per below:

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