

## H2moves Scandinavia

## H2moves.eu Scandinavia

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### Abstract:

With this proposal the Scandinavian Hydrogen Highway Partnership (SHHP) applies for becoming the first EC funded European Lighthouse Project (LHP) for hydrogen fuel cell cars. Correspondingly, the LHP has been christened "H2moves Scandinavia" being synonymous to "H2moves.eu" as acronym for the cluster of European demonstration projects on hydrogen for transport.

A state-of-the-art hydrogen refuelling station will be integrated in a conventional gasoline and diesel refuelling station in Oslo in early 2011, thus fulfilling all requirements specified in the call and offering the typical service profile of today's conventional fuelling stations. The objective is to provide hydrogen in a normal retail setting with a fully integrated purchase interface and in an urban environment with probably the densest hydrogen fuelling station network anywhere in Europe. The user interface design will be intuitive, safe and easy to use, and the plan is to provide fully renewable hydrogen from electrolysis and hydropower.

Ten Mercedes-Benz B-class F-CELL cars and an additional two Alfa Romeo MiTo fuel cell vehicles from Centro Ricerche FIAT will be provided for daily operation in Oslo and on specific tours in southern Norway and the whole SHHP region. In addition to these latest state-of-the-art fuel cell vehicles, five city cars from H2 Logic, mostly driven within the city of Oslo, will complement the vehicle fleet. The city cars will be based on a two-seater battery electric vehicle with a fuel cell range extender, being capable of up to 250 km driving range.

Out of this fleet of customer cars, at least two cars (sedans and city cars) will be employed also on at least five European hydrogen vehicle demonstration tours. For the on-site refuelling of hydrogen during the vehicle demonstration tours H2Logic will develop a mobile hydrogen refuelling concept for provision of almost 100% CO2 free hydrogen. A safety study will accompany the project to identify the certification gaps in Scandinavia to accelerate full commercialization of vehicles and fuelling stations.

The project's performance will be monitored and assessed versus benchmarks set in the beginning.

The project's results will be disseminated through a set of public reports. Communication with the JTI Programme Office, interested stakeholders and the public will be pursued.

Project details	
<b>Project reference:</b> 245101	<b>Contract type:</b> Collaborative Project
<b>Start date:</b> 01 January 2010	<b>End date:</b> pending
<b>Duration:</b> 36 months	<b>Project status:</b> ongoing
<b>Project cost:</b> € 19.5 million	<b>Project funding:</b> € 7.8 million

Participant organisation	Country
DAIMLER AG	Germany
Det Norske Veritas AS	Norway
CENTRO RICERCHE FIAT SCPA	Italy
H2 Logic A/S	Denmark
Vätgas Sverige Ideell Förening	Sweden
Hydrogen Link Denmark Association	Denmark