

H2ME1 & H2ME2

Hydrogen Mobility Europe



Key Facts



Funding Agency
EU FCH 2 JU



Project Call
FCH-01.7-2014



Duration
2015 - 2022



Coordinator
Element Energy



Partners

Car Manufacturers:

Daimler AG, Hyundai, Symbio, Audi AG, Renault Trucks, Toyota

Infrastructure Providers & Operators:

AGA, Air Liquide Advanced Business and Technologies (aB&T), AREVA H2Gen, BOC, CNR, CASC, Danish Hydrogen Fuel, GNVERT, H2 Logic A/S, H₂ Mobility, HYOP, ITM Power, The Linde Group, McPhy Energy

Observer Partners:

BMW, Brintbranchen, Honda, Hydrogen de France, Intelligent Energy, Ivenska Vetrnisfelagio, Michelin, Nissan, OMV Refining & Marketing GmbH, open energi, Renault, Rijkswaterstaat Ministry of Infrastructure and the Environment, Stedin, STEP, Tan Fr

Project Coordination & Consultants:

Cenex, City of Copenhagen, hySOLUTIONS, Icelandic New Energy, WaterstofNet



Website
<http://h2me.eu/>

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FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING

Project Objectives

H2ME is a large-scale market test of hydrogen refuelling infrastructure, passenger and commercial fuel cell electric vehicles operated in real-world customer applications, which will demonstrate that the hydrogen mobility sector can support the wider European energy system via electrolytic hydrogen production.

Main demo objectives:

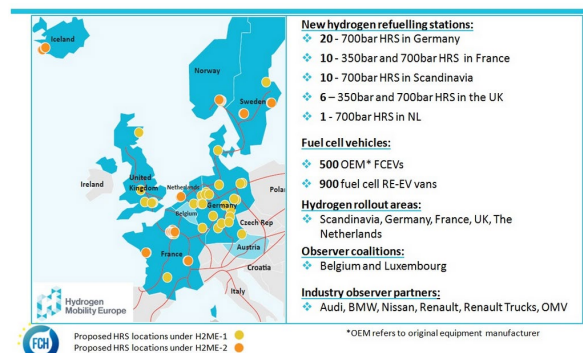
- Deploy and operate 1,400 fuel cell vehicles
- Deploy and operate 20 hydrogen refuelling stations (7x 700 bar, 6 dual pressure 700 / 350 bar and 7x 350 bar)
- Test the ability of 9 electrolyser-HRS (> 2 MW in total) to provide meaningful grid services

Main research and dissemination objectives:

- Conclude on the technical and commercial readiness of the vehicles, refuelling stations and production techniques
- Produce recommendations and identify gaps preventing full commercialisation
- Assemble evidence in readiness and communicate results to support next investments

EIFER's Contribution

- Technical support to the design of the HRS infrastructure
- On site monitoring (with remote data access)
- Commissioning and operation of the station in Sarreguemines, Nantes and Rodez
- Validation of the whole system, performance assessment, degradation measurement in operative conditions
- Evaluation of the overall cost of electrolytic hydrogen, based on real world installation
- Get experience in the authorization procedures - assess the legal frame
- Access the local value of hydrogen inside territories



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