Hydrogen Mobility Europe (H2ME) – Creating the European Vision for Hydrogen Transportation

L. Ruf, B. Madden, and M. Ojakovoh
Element Energy, 78 Margaret Street, London, W1W 8SZ, United Kingdom

lisa.ruf@element-energy.co.uk

Keywords: FCEVs, Hydrogen Refuelling Stations, Energy Security, Hydrogen, Demonstration, Europe

The European Commission [1] has identified Hydrogen Fuel Cell Electric Vehicles as a key technology needed for Europe to meet its ambitious target of reducing GHG emissions from the transport sector by 60% by 2050 [2]. Hydrogen refuelling technology has progressed significantly since the first demonstration and funding programmes began, but a number of market barriers persist preventing its widespread uptake within European markets [3].

H2ME combines Europe’s four leading initiatives on hydrogen mobility (in Germany, France, The Netherlands and the UK [4]), removing market barriers to create a truly European hydrogen network and a united deployment strategy. The project will provide a unique opportunity for these major initiatives to harmonise their strategies for the first time and significantly expand Europe’s hydrogen vehicle and station network. H2ME is the largest demonstration project to date, testing different strategies and the latest technology from leading car OEMs of the sector (Daimler, Symbio FCell, Honda, Hyundai and Toyota). H2ME has launched 49 stations and more than 1400 vehicles across 10 countries throughout the five year duration of the project.

Figure 1: Map of HRSs for H2ME

Acknowledgements
This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 671438 and No 700350. This Joint Undertaking receives support from the European Union’s Horizon 2020 research and innovation programme, Hydrogen Europe and the New European Research Grouping on Fuel Cells and Hydrogen (“N.ERGHy”)

REFERENCES