

PROJECT

## H2ME

### Hydrogen Mobility Europe

**Funding:** European (Horizon 2020)

**Duration:** Jun 2015 - Nov 2020

**Status:** Complete

**Total project cost:** €62,308,186

**EU contribution:** €32,000,000



**Call for proposal:** H2020-JTI-FCH-2014-1

[CORDIS RCN : 198091](#)

#### Objectives:

Hydrogen Mobility Europe (H2ME) brings together Europe's 4 most ambitious national initiatives on hydrogen mobility (Germany, Scandinavia, France and the UK). The project will expand their developing networks of HRS and the fleets of fuel cell vehicles (FCEVs) operating on Europe's roads, to significantly expand the activities in each country and start the creation of a pan-European hydrogen fuelling station network. In creating a project of this scale, the FCH JU will create not only a physical but also a strategic link between the regions that are leading in the deployment of hydrogen. The project will also include 'observer countries' (Austria, Belgium and the Netherlands), who will use the learnings from this project to develop their own hydrogen mobility strategies.

The project is the most ambitious coordinated hydrogen deployment project attempted in Europe. The scale of this deployment will allow the consortium to:

- Trial a large fleet of FCEVs in diverse applications across Europe - 200 OEM FCEVs (Daimler and Hyundai) and 125 fuel cell range-extended vans (Symbio FCell collaborating with Renault) will be deployed
- Deploy 29 state of the art refuelling stations, using technology from the full breadth of Europe's hydrogen refuelling station providers. The scale will ensure that stations will be lower cost than in previous projects and the breadth will ensure that Europe's hydrogen station developers advance together
- Conduct a real world test of 4 national hydrogen mobility strategies and share learnings to support other countries' strategy development
- Analyse the customer attitude to the FCEV proposition, with a focus on attitudes to the fuelling station networks as they evolve in each country
- Assess the performance of the refuelling stations and vehicles in order to provide data of a sufficient resolution to allow policy-makers, early adopters and the hydrogen mobility industry to validate the readiness of the technology for full commercial roll-out.

#### Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

#### Lead Organisation:

**Element Energy Limited**

**Address:**

Station Road 20  
Cambridge

CB1 2JD  
United Kingdom

**EU Contribution:** €631,315

### **Partner Organisations:**

#### **Communaute D'agglomeration Sarreguemines Confluences**

**Address:**

99 RUE DU MARECHAL FOCH  
57208 SARREGUEMINES CEDEX  
France

**EU Contribution:** €192,770

#### **Renault Represented By Gie Reginov**

**Address:**

Quai Alphonse Le Gallo 13/15  
92100 BOULOGNE-BILLANCOURT  
France

**Organisation Website:**

<http://www.renault.com>

**EU Contribution:** €0

#### **Icelandic New Energy Ltd**

**Address:**

Grensasvegi 9  
108 Reykjavik  
Iceland

**EU Contribution:** €103,359

#### **Eifer Europaisches Institut Fur Energieforschung Edf Kit Ewiv**

**Address:**

EMMY NOETHER STRASSE 11  
76131 KARLSRUHE  
Germany

**Organisation Website:**

<http://www.eifer.org>

**EU Contribution:** €163,114

#### **Toyota Motor Engineering & Manufacturing Europe**

**Address:**

Bourgetlaan 60  
1140 EVERE (BRUXELLES)  
Belgium

**Organisation Website:**

<http://www.toyota.eu>

**EU Contribution:** €3,500,000

#### **Waterstofnet Vzw**

**Address:**

SLACHTHUISSTRAAT 112/1  
2300 TURNHOUT  
Belgium

**EU Contribution:** €49,438

**Honda R&d Europe (Deutschland) Gmbh****Address:**

CARL LEGIEN STRASSE 30  
63073 OFFENBACH AM MAIN  
Germany

**Organisation Website:**

<http://www.world.honda.com>

**EU Contribution:** €0

**Daimler Ag****Address:**

Mercedesstrasse  
70327 Stuttgart  
Germany

**Organisation Website:**

<http://www.daimler.com>

**EU Contribution:** €2,000,000

**Linde Ag****Address:**

Klosterhofstrasse 1  
80331 MUNCHEN  
Germany

**Organisation Website:**

<http://www.linde.com>

**EU Contribution:** €5,094,499

**Hyop As****Address:**

GUNNAR RANDERS VEI 24  
2027 KJELLER  
Norway

**EU Contribution:** €847,343

**Itm Power (Trading) Limited****Address:**

ATLAS WAY 22  
SHEFFIELD  
S4 7QQ  
United Kingdom

**Organisation Website:**

<http://www.itm-power.com>

**EU Contribution:** €2,340,923

**Symbio****Address:**

14 RUE JEAN PIERRE TIMBAUD  
38600 FONTAINE  
France

**Organisation Website:**

<http://www.symbiofcell.com>

**EU Contribution:** €1,262,250

**Air Liquide Advanced Technologies Sa****Address:**

QUAI d'ORSAY 75  
75007 PARIS  
France

**Organisation Website:**

<http://www.airliquideadvancedtechnologies.com>

**EU Contribution:** €5,988,107

**Air Liquide Advanced Business****Address:**

Rue Cognacq-Jay 6  
75007 Paris  
France

**EU Contribution:** €112,004

**Nissan Motor Manufacturing (Uk) Limited****Address:**

Washington Road  
Sunderland  
SR53NS  
United Kingdom

**EU Contribution:** €0

**Aga Ab****Address:**

AGAVAGEN 54  
181 81 LIDINGO  
Sweden

**EU Contribution:** €847,343

**Cenex - Centre Of Excellence For Low Carbon And Fuel Cell Technologies****Address:**

COLMORE ROW 55  
BIRMINGHAM  
B3 2AS  
United Kingdom

**Organisation Website:**

<http://www.cenex.co.uk>

**EU Contribution:** €499,781

**OMV Refining & Marketing Gmbh****Address:**

Trabrennstrasse 6 8  
1020 Wien  
Austria

**Organisation Website:**

<http://www.omv.com>

**EU Contribution:** €0

**Intelligent Energy Limited****Address:**

ASHBY ROAD HOLYWELL PARK CHARNWOOD BUILDING  
LOUGHBOROUGH  
LE11 3GB  
United Kingdom

**Organisation Website:**

<http://www.intelligent-energy.com>

**EU Contribution:** €0

**Areva H2Gen****Address:**

RUE QUENTIN BAUCHART 20  
75008 PARIS  
France

**Organisation Website:**

<http://www.arevah2gen.com>

**EU Contribution:** €1,269,955

**Mcphy Energy Sa****Address:**

La Riétière -Zone d' activités  
26190 La Motte Fanjas  
France

**Organisation Website:**

<http://www.mcphy.com>

**EU Contribution:** €496,755

**Danish Hydrogen Fuel As****Address:**

INDUSTRIPARKEN 34B  
7400 HERNING  
Denmark

**EU Contribution:** €0

**H2 Mobility Deutschland Gmbh & Co Kg****Address:**

EUREF CAMPUS 10-11  
10829 BERLIN

Germany

**EU Contribution:** €5,256,264

**Nel Hydrogen As**

**Address:**

INDUSTRI-PARKEN 34 B LIND  
7400 HERNING  
Denmark

**Organisation Website:**

<http://www.h2logic.com>

**EU Contribution:** €847,343

**Bayerische Motoren Werke Ag**

**Address:**

Petuelring 130  
80809 MUNICH  
Germany

**Organisation Website:**

<http://www.bmwgroup.de>

**EU Contribution:** €0

**Hyundai Motor Europe GmbH**

**Address:**

KAISERLEI-PROMENADE 5  
63067 OFFENBACH  
Germany

**Organisation Website:**

<http://www.hyundai-europe.com>

**EU Contribution:** €0

**Boc Limited**

**Address:**

PRIESTLEY ROAD 10 THE SURREY RESEARCH PARK  
GUILDFORD  
GU2 7XY  
United Kingdom

**Organisation Website:**

<http://www.BOOnline.co.uk>

**EU Contribution:** €497,437

**Technologies:**

Fuel cells and hydrogen fuel  
Hydrogen refuelling station using ionic compressor

**Development phase:** Demonstration/prototyping/Pilot Production

Fuel cells and hydrogen fuel  
Hydrogen production using an electrolyser system

**STRIA Roadmaps:**

Transport electrification, Low-emission alternative energy for transport, Infrastructure

**Transport mode:** Road transport

**Transport sectors:** Passenger transport, Freight transport

**Transport policies:** Decarbonisation

**Geo-spatial type:** Other