



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project ene.field

European-wide field trials for residential fuel cell micro-CHP

ene.field will deploy up to 1,000 residential fuel cell Combined Heat and Power (micro-CHP) installations, across 11 key Member States. It represents a step change in the volume of fuel cell micro-CHP (micro FC-CHP) deployment in Europe and a meaningful step towards commercialisation of the technology. The programme brings together 9 mature European micro FC-CHP manufacturers into a common analysis framework to deliver trials across all of the available fuel cell CHP technologies. Fuel cell micro-CHP trials will be installed and actively monitored in dwellings across the range of European domestic heating markets, dwelling types and climatic zones, which will lead to an invaluable dataset on domestic energy consumption and micro-CHP applicability across Europe. By learning the practicalities of installing and supporting a fleet of fuel cells with real customers, ene.field partners will take the final step before they can begin commercial roll-out. An increase in volume deployment for the manufacturers involved will stimulate cost reduction of the technology by enabling a move from hand-built products towards serial production and tooling. The ene.field project also brings together over 29 utilities, housing providers and municipalities to bring the products to market and explore different business models for micro-CHP deployment. The data produced by ene.field will be used to provide a fact base for micro FC-CHP, including a definitive environmental lifecycle assessment and cost assessment on a total cost of ownership basis. To inform clear national strategies on micro-CHP within Member States, ene.field will establish the macro-economics and CO₂ savings of the technologies in their target markets and make recommendations on the most appropriate policy mechanisms to support the commercialisation of domestic micro-CHP across Europe. Finally ene.field will assess the socio-economic barriers to widespread deployment of micro-CHP and disseminate clear position papers and advice for policy makers to encourage further roll out. Fourth Amendment Changes to the DOW in light of the fourth amendment include: - Beneficiary GDF SUEZ has changed its legal name to ENGIE Descriptions of financial flows from partner manufacturers are added to the DOW as annexes; - Considering the inclusion of new partners, units and budgets are accordingly reallocated: o for additional units and budget: Viessmann and SOLIDPower o for reduction of budget and number of units: RBZ, Dantherm, Hexis - Due to a slow start in trial deployment, the deployment period for units will be extended until September 2016. To protect the confidentiality of some of the information provided by the CHP suppliers in the project, this project description document has two sections. The first main section describes the overall intent of the project and summary information from each of the suppliers. The Addendum 1 is a selection of Letters of intent applying to the project for deployment of units from ene.field associates. Fifth Amendment Changes to the DOW in light of the fourth amendment include: • Removal of special clause 5.1 reserving funds originally intended as a pre-payment to Ceres Power • Allocation of additional pre-financing to Solid Power Spa • Change of project coordinator named by COGEN Europe to Roberto Francia.

Project Information

Type of project : Demonstration

Timing : 01/09/2012 > 31/10/2017

Project website: <http://enefield.eu/>

Project Budget : 52.488.996 €

Funding

European Union through FCH JU: [Grant agreement 303462 - CORDIS link](#)

Project partners

Coordinator :

THE EUROPEAN ASSOCIATION FOR THE PROMOTION OF COGENERATION VZW

Partners :

[Ceres Power Ltd](#)

[Ballard Power System Europe A/S \(Previously Dantherm\)](#)

[Elcore](#)

[ENGIE](#)

[Politecnico di Torino](#)

[DVGW - German Technical and Scientific Association for Gas and Water](#)

[ene.field](#)

[Viessmann GmbH & Co. KG](#)

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ENERGIESYSTEME

SOLIDPOWER SPA

VAILLANT GMBH

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BRITISH GASTRADING LIMITED

ELEMENT ENERGY LIMITED

ITHO DAALDEROP GROUP BV

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PARCO SCIENTIFICO E TECNOLOGICO PER L'AMBIENTE - ENVIRONMENT PARK SPA

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DONG ENERGY WIND POWER HOLDING AS

HEXISAG

DONG ENERGY OIL & GAS AS

SENERTEC KRAFT-WARME ENERGIESYSTEME GMBH

Sub project(s)

Sub project 1

Country: Belgium

Address:

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Sub project categories

Demonstration

Project Id: 960

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