



# Hydrogen Europe: European Hydrogen & Fuel cell Project Database

## Project FC-EuroGrid

### Evaluating the Performance of Fuel Cells in European Energy Supply Grids

It has become apparent in the development of the Fuel Cell and Hydrogen Joint Undertaking (FCH JU) Multi Annual Implementation Plan (MAIP) and Annual Implementation Plans (API) that it is difficult to formulate precise targets and requirements for stationary fuel cell applications due to the complicated interaction of FC system operation with grid specifics and the differing goals of FC implementation in the Member States. Neither for efficiency and emission levels, for example, nor for more technical specifications like cycling ability and turn-down ratio can clear targets be set and benchmarks applied that are independent from the energy supply grid environment the FC system is operating in. Therefore it was decided to omit such targets from the JU programme, which on the other hand constitutes an unsatisfactory situation due to the lack of clear technical guidelines. The project will contribute to solving this situation by collecting and reviewing information on stationary FC operations in various grid environments and application strategies. From this analysis and using information on competing technologies and their future development, benchmarks and targets for stationary fuel cell applications in Europe will be developed and coordinated with the relevant European stakeholders, as well as with the FCH JU and the Commission. These benchmarks will be essential in assessing the progress of the JU programme in improving fuel cell technology and the advantages fuel cells can offer over conventional technologies in the context of different energy supply grids.

### Project Information

**Type of project :** Others

**Timing :** 01/10/2010 > 31/12/2012

**Project website:** [http://www.fc-eurogrid.eu/fc-eurogrid/EN/Home/home\\_node.html](http://www.fc-eurogrid.eu/fc-eurogrid/EN/Home/home_node.html)

**Project Budget :** 805.931 €

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### Funding

European Union through FCH JU: Grant agreement 256810 - [CORDIS link](#)

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### Project partners

**Coordinator :**[University of Birmingham](#)**Partners :**[JÜLICH - Forschungszentrum Jülich GmbH](#)[VTT - Technical Research Centre of Finland](#)[ENEA - Agenzia per le Nuove Tecnologie, l'Energia e lo sviluppo economico sostenibile](#)[IEN - Instytut Energetyki](#)

E. ON RUHRGAS AG

Grontmij AB

EBZ Entwicklungs- und Vertriebsgesellschaft Brennstoffzelle mbH

UNIPER TECHNOLOGIES GMBH

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**Sub project(s)****Sub project 1****Country:** United Kingdom**Address:** Edgbaston B15 2TT BIRMINGHAM**Sub project categories**

Others

Project Id: 963

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