



# Hydrogen Europe: European Hydrogen & Fuel cell Project Database

## Project ELYGRID

Improvements to Integrate High Pressure Alkaline Electrolysers for Electricity/H<sub>2</sub> production from Renewable Energies to Balance the Grid.

ELYGRID Project aims at contributing to the reduction of the total cost of hydrogen produced via electrolysis couple to Renewable Energy Sources, mainly wind turbines, and focusing on mega watt size electrolyzers (from 0,5 MW and up). The objectives are to improve the efficiency related to complete system by 20 % (10 % related to the stack, and 10 % electrical conversion) and to reduce costs by 25%. The work will be structured in 3 different parts, namely: cells improvements, power electronics, and balance of plant (BOP). Two scalable prototype electrolyzers will be tested in facilities which allows feeding with renewable energies (photovoltaic and wind)

## Project Information

**Type of project :** Research

**Timing :** 01/11/2011 > 31/12/2014

**Project website:** <http://www.elygrid.com/>

**Project Budget :** 3.701.178 €

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## Funding

European Union through FCH JU: **Grant agreement 278824 - CORDIS link**

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## Project partners

**Coordinator :**

**Aragon Hydrogen Foundation - Fundación para el Desarrollo de las Nuevas Tecnologías del Hidrógeno en Aragón**

**Partners :**

**IHT Industrie Haute Technologie**

**EMPA**

**HELION Hydrogen Power**

**JÜLICH - Forschungszentrum Jülich GmbH**

**CEA - Commissariat à l'énergie atomique et aux énergies alternatives**

**VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.**

**LAPESA GRUPO EMPRESARIAL**

**INSTRUMENTACION Y COMPONENTESSA**

**INGETEAM POWER TECHNOLOGY SA**

## Sub project(s)

### Sub project 1

**Country:** Spain

**Address:**

CR ZARAGOZA N 330A KM 566 CUARTE 22197 HUESCA

**Sub project categories**

Research

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Project Id: 957

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