Hydrogen Europe:
European Hydrogen & Fuel cell Project Database

Project ELYGRID

Improvements to Integrate High Pressure Alkaline Electrolysers for Electricity/H2 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 electrolyzes (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 €

Funding

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

Project partners

Coordinator :
Aragon Hydrogen Foundation - Fundación para el Desarrollo de las Nuevas Tecnologías del Hidrógeno en Aragón
Partners :
IHT Industrie Haute Technologie
Empa - Eidgenössische Materialprüfungs- und Forschungsanstalt
AREVA Energy Storage
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 COMPONENTES SA
INGETEAM POWER TECHNOLOGY SA

Sub project(s)

Sub project 1

Country: Spain
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Sub project categories
Research

Project Id: 957
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