



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project ADEL

Advanced Electrolyser for Hydrogen Production with Renewable Energy Sources

The ADEL project (ADvanced ELectrolyser for Hydrogen Production with Renewable Energy Sources) proposes to develop a new steam electrolyser concept named Intermediate Temperature Steam Electrolysis (ITSE) aiming at optimizing the electrolyser life time by decreasing its operating temperature while maintaining satisfactory performance level and high energy efficiency at the level of the complete system including the heat and power source and the electrolyser unit. The relevance of this ITSE will be assessed both at the stack level based on performance and durability tests followed by in depth post test analysis and at the system level based on flow sheets and energy efficiency calculations.

Project Information

Type of project : Research

Timing : 01/01/2011 > 31/12/2013

Project website: <http://www.adel-energy.eu/>

Project Budget : 4.155.776 €

Funding

European Union through FCH JU: **Grant agreement 256755 - CORDIS link**

Project partners

Coordinator :

HTceramix SA

Partners :[CEA - Commissariat à l'énergie atomique et aux énergies alternatives](#)[DLR - German Aerospace Center](#)[ADEL](#)[Empa - Eidgenössische Materialprüfungs- und Forschungsanstalt](#)[Abengoa Innovación](#)[HyGear B.V.](#)[IMDEA Energia](#)

ACCELOPMENT AG

JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

SOLIDPOWER SPA

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Sub project(s)**Sub project 1****Country:** Switzerland**Address:** av des Sports 26 1400 Yverdo-les-Bains**Sub project categories**

Research

Project Id: 1117

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