



Leonardo da Vinci
Proyectos piloto

H2-TRAINING PROJECT

H2-TRAINING



UNIVERSIDAD
SAN JORGE



H2-Training Project: (INN7/030625):
**Hydrogen Technologies Transfer
Project European Leonardo da Vinci
Programme**

Curricula design and elaboration of
training contents validated on an
international scale focused on hydrogen-
based technologies and fuel cells.

**10 partners from Five European
Countries:** plural participation of public
and private entities

Spain: San Valero Foundation (Promoter),
San Jorge University and Foundation for
the Development of New Hydrogen
Technologies in Aragón.

Austria: Graz Energy Agency and
Eco4ward.

Germany: Kolping-Bildungswerk and
Weiter Bildungszentrum

England: Wales University.

Italy: Environment Park and Italian
Hydrogen Association.

New emerging professional profile,
"technician for fuel cell installation and
maintenance"

Promote and reinforce the professional
training for improving the innovation
process and the competitiveness in order
to develop new job opportunities.

Start up: September 2006

Duration: 24 months

RESEARCH AND DEVELOPMENT

Develop the new technologies related to hydrogen and renewable energy.
Contribute in the industrial modernization and competitiveness enhancement.



ITHER Project

Walqa Technology Park: Huesca (Spain)



ITHER: Technology Infrastructure for Hydrogen and Renewable Energy

High visibility facility for dissemination purposes. Real-scale test bench System and component development and optimization.

Photovoltaic facility (100 kW) and **R&D wind farm** (635 kW): electrolysis integration and grid simulation.

Green hydrogen generation for fleets.

Cornerstone: Hydrogen Technology Center.

Financed by the Education and Science Ministry and The Government of Aragón. PCT-A2266217-2005

October 2005-June 2007



Other actions



Hydrogen Generation from Renewable Energies Project

Financed by the Education and Science Ministry. CDT-120000-2005-37

Partners: CIEMAT, GAMESA Energy S.A., VESTAS Eólica S.A.U., Taim-Tig S.A.

Objective: Characterize the dynamic operation of a polymeric electrolyzer to integrate it with a wind turbine.

January 2006-June 2006

HOGA: Public Software for the optimization of hybrid systems by genetic algorithms.

Own financing

Collaboration with the Zaragoza University.



GOBIERNO DE ARAGON

H2-TRAINING PROJECT



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UNIVERSIDAD DE SAN JORGE



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FUNDACIÓN PARA EL
DESARROLLO DE LAS NUEVAS
TECNOLOGÍAS DEL HIDRÓGENO
EN ARAGÓN



THE FOUNDATION



OBJECTIVES



Private non profit organization: its Council covers all the sectors of interest for the new hydrogen economy.

AIMS

Develop the renewable hydrogen pathway.

Promote the settlement of the regional companies and SME's into the hydrogen economy.

Encourage research and technology development to enhance industrial competitiveness.

Incorporate the renewable energies to new products and industrial processes.



PRESENCE



Associated and taking part in the Management Board of the Spanish Hydrogen Association (AEH) and the Spanish Fuel Cell Association (APFICE).

Participating in the Standardization Technical Committee (AENOR CTN 181) and in its Workgroups.

Founders of the Spanish Hydrogen and Fuel Cells Platform, taking part in several of its Committees and participating in the European Platform.

Participation in the Joint Technology Initiative launch (European 7th Framework Programme) and in Committees of the International Energy Agency.

