

Promoting Innovation Capacity for Intelligent and Sustainable Growth

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<http://www.pemfc-sudoe.eu>



The "Energy Sustainability at the SUDOE region: PEMFC-SUDOE" project responds to the challenge of ensuring sustainable energy supply at the SUDOE region through the development of PEMFC technology with the integration of renewable sources of H₂. Four PEMFC innovative prototypes for use in **transport** (Automobiles and bicycles), **stationary sources** (Stack of > 250W power supply of buildings or public lighting) and **portable** (Compact system with a capacity of > 400WH and a minimum of 50W for use in computers, mobile phones etc.) constitute the end products that integrate the results of scientific-technical project activities.

They will address i) the production of hydrogen from industrial waste sources in the SUDOE area, ii) the development of new materials and advanced configurations PEMFC cells and iii) evaluation environmental sustainability and creating tools for optimal design of PEMFC devices.

The project will give a **big boost for institutional relations in the SUDOE area** between research institutions, knowledge generators, and the business sector (responsible for facilitating transfer and commercialization), and governments and social partners (responsible for integrating scientific advances in the policies and strategic plans involving citizens through strategic dissemination plans).

This will only be possible from work coordinated by a highly qualified and balanced consortium (3 universities, 2 research centres, 4 SMEs and 8 associate partners including government, clusters, technology platforms, partnerships for regional development and end users) with representation throughout the SUDOE region.

The creation of a **Transnational network of excellence R & D + I** in the field of fuel cells and energy of H₂ is the best guarantee of success and significance of the results after the completion of the project.



Duration: 3 years (2016-2019)

Budget: 1,812,666.67 €
(FEDER amount: 1 359 500 €)

PARTNERS

Full partners

1. Universidad de Cantabria, Spain (Coordinator)
2. Centre National de la Recherche Scientifique, France
3. Universidade do Porto, Portugal
4. Laboratório Nacional de Energia e Geologia, Portugal
5. Institut National Polytechnique de Toulouse, France
6. ARIEMA Energia y Medioambiente, Spain
7. APRIA Systems, Spain
8. Institut de la Filtration et des Techniques Séparatives, France
9. Nanoinnova Technologies, Spain

Associated partners

1. Asociación Española del Hidrógeno, Spain
2. Consejería de Innovación, Industria, Turismo y Comercio, Gobierno de Cantabria, Spain
3. SODERCAN
4. Ecobike, Spain
5. CEOE-CEPYME Cantabria, Spain
6. GIRA (Grupo de Iniciativas Regionales de Automoción), Spain
7. BRESIMAR AUTOMAÇÃO, SA, Portugal
8. Direcção Geral de Energia e Geologia, Portugal

