

National Presentation for HY-CO Workshop on Benefits and Opportunities

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Basque Country Autonomous Community (Spain)

• presented by:

Oscar Miguel, PhD (*CIDETEC, Centre for Electrochemical Technologies*)

on behalf of EUROBULEGOA-Basque Government

1. What are the most important policy objectives related to hydrogen and fuel-cell RD&D in the country/region

- **General:**

- Development of a knowledge based economy
- Increasing of R+D expenditure from 1.9% (today) to 3% (2010) GNP, with 66% coming from industry
- Technological convergence with Europe
- Encouragement of participation of Basque Companies in European R+D programs/projects

- **H2&FC Specific:**

- Development of a "critical mass" of high level researchers in the field of H2&FC within the Basque Technolog Network (*RVT*)
- Giving technological support of the already existing industrial companies involved/interested in H2&FC R+D
- Facilitating the access of these companies to European funding and technological interchange
- Encouragement to develop new H2&FC products

2. Please rank the research areas below in order of importance for your country/region in trans-national research cooperation

- g. FC technology**
- d. Stationary applications**
- f. Portable applications**
- a. H₂ production**
- k. Synergies (international cooperation, cooperation between industry, governments and universities etc.)**
- j. Decentralized energy systems**
- e. Transportation and propulsion systems**
- c. H₂ distribution and supply**
- i. Rational use of energy (including bench marking)**
- b. Storage applications**
- h. Socio-economic**
- l. CO₂ capture and storage**

3. Please indicate for the five most important areas of research whether the research area is:

A. a dominant well developed area;

B. a reasonably developed area;

C. a rather new area

- g. FC technology - a dominant well developed area (PEMFC & SOFC)
- d. Stationary applications - a reasonably developed area
- f. Portable applications - a reasonably developed area
- a. H₂ production - a reasonably developed area
- k. Synergies (international cooperation...) – a reasonably developed area

4. Which specific research themes within the 1-5 most important areas would be best suited for transnational cooperation?

- g. FC technology
 - PEMFC Stack development
 - SOFC Stack development
- d. Stationary applications
 - Domestic FC CHP applications development
 - ICE (no FC) H2 applications (MW size) development
- f. Portable applications
 - H2 storage for portable applications
- a. H₂ production
 - Demonstration projects (i.e. hydrolysis)
- k. Synergies (international cooperation...)
 - mobility of personnel (researchers, students...)

5. Other information

- **EUROBULEGOA** has defined the **BASQUE CONTACT POINTs (BCP)**
- thematic working groups of experts & industrials
 - to coordinate the European activity of Basque stakeholders in the field
 - to optimize efforts and results (income from FC calls)
 - Fields of activity: HFP / FP calls / Eranets



Oscar Miguel - CIDETEC (IK4)

Ander Laresgoiti - IKERLAN (IK4)
Iñaki Azkarate - INASMET (TECNALIA)
Pedro Luis Arias - UPV/EHU
Igor Cantero - CEGASA
Javier Aranceta - MCC Comp.
Miguel Angel Domínguez - GUASCOR

JEMA - Juan Otegi
ZIGOR - Javier Olarte
CIE - Mikel Rico
NATURGAS ENERGÍA - Angel M^a Gutiérrez
IBERDROLA - Pedro Martínez