



# HyER – Hydrogen Fuel Cells & Electromobility in European Regions

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Roundtable "IPHE – Hydrogen and Fuel Cells Stakeholders"  
Berlin November 17<sup>o</sup>

# HyER Introduction – Members (end 2011)



European Regions and Municipalities Partnership for Hydrogen and Fuel Cells

## France

- Rhone Alpes
- Midi Pyrénées
- Bretagne
- Poitou Charentes

## Italy

- Abruzzo
- Province of Bolzano
- Lazio
- Lombardy
- Piemonte
- Province of Trento
- Tuscany
- Veneto

## Germany

- Baden-Württemberg
- City of Hamburg
- Hessen
- North Rhine-Westphalia

## Spain

- Andalucia
- Aragon
- Castilla La Mancha
- Catalonia
- Galicia

## United Kingdom

- West Midlands
- Outer Hybrides
- North East England
- Greater London Authority

- Scandinavian Regions (N, SE, DK), represented by Hydrogen Sweden
- Flanders (Belgium)
- City of Wroclaw (Poland)
- City of Torres Vedras (Portugal)
- Pirkanmaa (Finland)
- Rotterdam
- Bled (Slovenia)

★ European hydrogen refuelling stations 2010

Roundtable "IPHE – Hydrogen and Fuel Cells Stakeholders"  
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# HyER Introduction – Objectives

## Coordination among the European Regions

- Harmonisation of regional activities across Europe
- Initiation of common inter-regional projects (actions)
- **Data collection and monitoring**

## Towards EU

- Representation towards the European organisations
- Harmonisation of regional, national and EU policy and funding



# Role of HyER Members

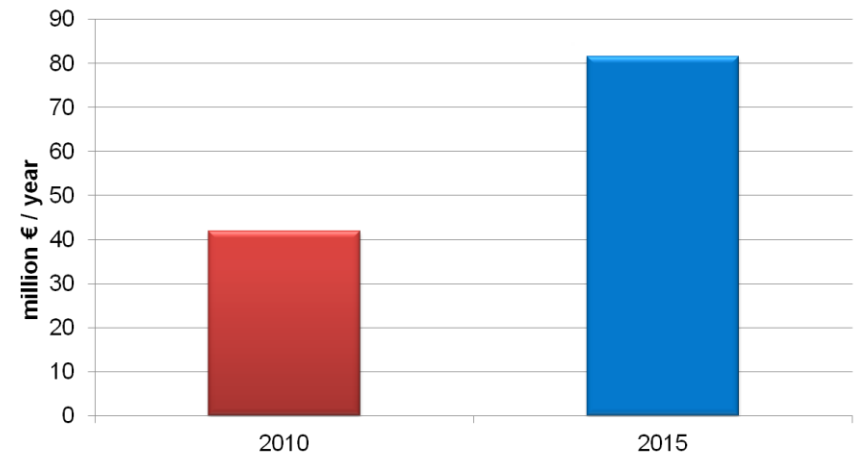


## Representatives of regional / local authorities involved in

- Strategic energy, transport and infrastructure planning
- Technology development program planning
- Public procurement programs (e.g. transport fleets, ..)
- Funding program definition and legislation
- Industrial and climate protection policy

**HyER members have access to powerful tools for the introduction and commercialisation of innovative energy technologies**

## Indicative annual budget of member regions for projects in hydrogen and FC



# Recent Activities / Involvements



## HyER's main work topics

- **Project involvement to observe and monitor technical development**  
Gain latest state-of-the-art information from ongoing EC projects and “translate” information into policy recommendations towards local / regional decision makers
- **Data survey and monitoring**  
Prepare comprehensive data pool based on local /regional information as unique source of information for all relevant stakeholders
- **Political support and visibility towards European Stakeholders**  
Facilitate political seminars and workshops on behalf of members and third parties (on specific request). Contribute to hearings, public consultations, liaise with relevant EU organisations (EC, EP, Council, EIB)..

# Renewables & Hydrogen (1)



- Hydrogen is recognized as a part of the technology portfolio for energy storage which is showing a very high market potential for the coming years
- RES can be considered as “regional-based” energy sources due to their deep geographical character
- Different experiences are presently on going in several member regions showing different approaches to the integration of RES and Hydrogen:
  - Coupling wind power with hydrogen generation, storage and local usage, providing a stand alone situation integrated with re-fuelling station of public transport vehicles (Herten project, NRW – Germany)
  - Coupling hydro-power (from flowing water) with hydrogen generation, storage and usage in re-fuelling stations for public transport vehicles (Bolzano and Trento Provinces in Italy)
  - Other project are running in other HyER member regions (Aragon-Spain)

# Renewables and Hydrogen



## Local administrations can be key actors in targeting hydrogen as a energy storage medium as:

- They have among their duties, the energy planning, covering the whole complex of energy policies concerning the territory
- In particular, they are asked to take part to the energy infrastructure development of their territories;
- Local utility companies are often owned/shared by local governments;
- Small utilities, in a decentralized energy system, may be important actors in the energy storage market;
- Public transport or fleets are direct ways to shift RES from power to transport (among HyER members there are many authorities supporting local public transport operators in adopting FC Buses for demo/testing).
- For EU regions, Smart Cities is a context where such early adoption might be implemented, Public/Private partnerships are crucial.

# Renewables and Hydrogen



## Local administrations' remarks:

- Hydrogen can effectively work as a plus for RES implementation in regions showing a high production potential
- Hydrogen can play a role in the major changes that will affect local energy systems in more decentralized situation
- Regions show a clear attitude to act supporting local initiatives but need to be assisted in the definition and implementation;
- A coordinated activation of support measures is required, working more and more in the direction to harmonize local and National/European tools;
- Regions are much more effective whereas national road maps/implementation plans are in place – e.g. regulatory framework is crucial
- Regarding transport: fleet business models analysis should be published in order to clarify timeframe and cost dynamics



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