



The Politics of Clean Energy: Fuel Cells and Hydrogen on the Road to Copenhagen

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*Fuel Cells and Hydrogen Joint Undertaking (FCH JU)
2nd Stakeholders General Assembly
Brussels, October 27, 2009*

Overview



HyRaMP Introduction

HyRaMP's Promotion of FCH Technologies

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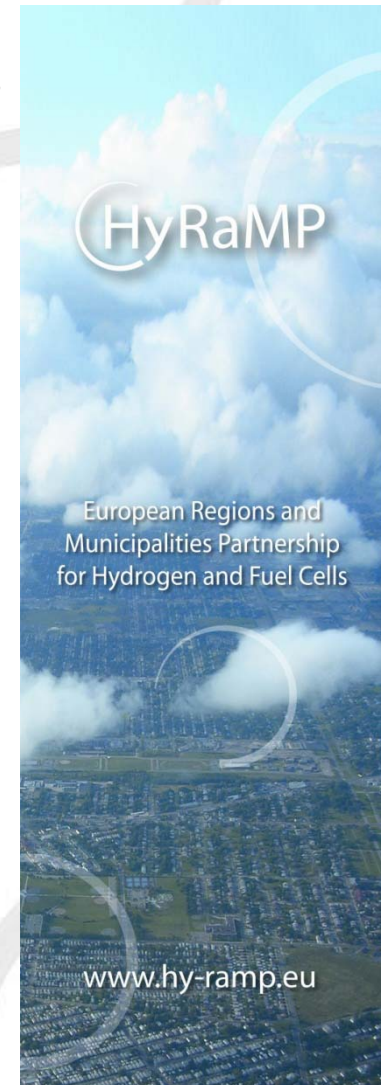
HyRaMP's Promotion of FCH Technologies

HyRaMP – Facts

- Founded in April 2008 as “European Regions and Municipalities Partnership on Hydrogen and Fuel Cells”
- Partnership of 30 European regions and municipalities with relevant activities in the field of hydrogen and fuel cells
- Legal and operational structure (board, office, budget, work plan)



06.11.2009



Slide 4

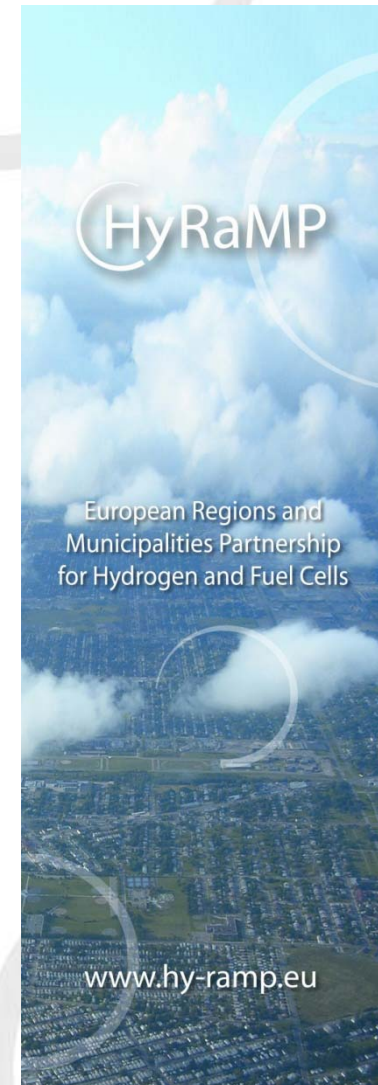
HyRaMP Objectives

Coordination between the European Regions

- Harmonisation of regional activities across Europe
- Initiation of common and inter-regional projects (actions)

Towards FCH JU (and others)

- Representation of the European regions towards the European funding and organisations on FCH topics
- Harmonisation of regional, national and European activities and funding
- Initiation and implementation of coordinated projects



HyRaMP Members



European Regions and
Municipalities Partnership
for Hydrogen and Fuel Cells

France

- Rhone Alpes
- Midi Pyrénées

Germany

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

United Kingdom

- British Midlands
- Outer Hybrides
- North East of England

Italy

- Abruzzo
- Province of Bolzano
- Lazio
- Lombardy
- Piemonte
- Province of Trento
- Tuscany
- Andalusia
- Aragon
- Castilla La Mancha
- Catalonia
- Galicia
- Madrid

- Scandinavian Regions (N, SE, DK)
- Flanders (B)
- City of Ljubljana (SLO)
- City of Wroclaw (PL)
- City of Torres Vedras (P)
- DutchHy (NL)

06.11.2009

HyRaMP AGM 2009

Slide 6

* European hydrogen refuelling stations 2009 * Planned Stations for 2010

Overview



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HyRaMP's Promotion of FCH Technologies

COP 15 Essentials



According to Yvo de Boer, Executive Secretary of UNFCCC, the essentials for an agreement in Copenhagen are

1. How much are the industrialized countries willing to reduce their emissions of greenhouse gases?
2. How much are major developing countries such as China and India willing to do to limit the growth of their emissions?
3. How is the help needed by developing countries to engage in reducing their emissions and adapting to the impacts of climate change going to be financed?
4. How is that money going to be managed?



<http://en.cop15.dk>

COP 15 Essentials



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<http://en.cop15.dk>

=> How is HyRaMP addressing the first question of Mr. de Boer regarding the COP 15 essentials?

HyRaMP's Role - Proof and Improvement of Region's Willingness

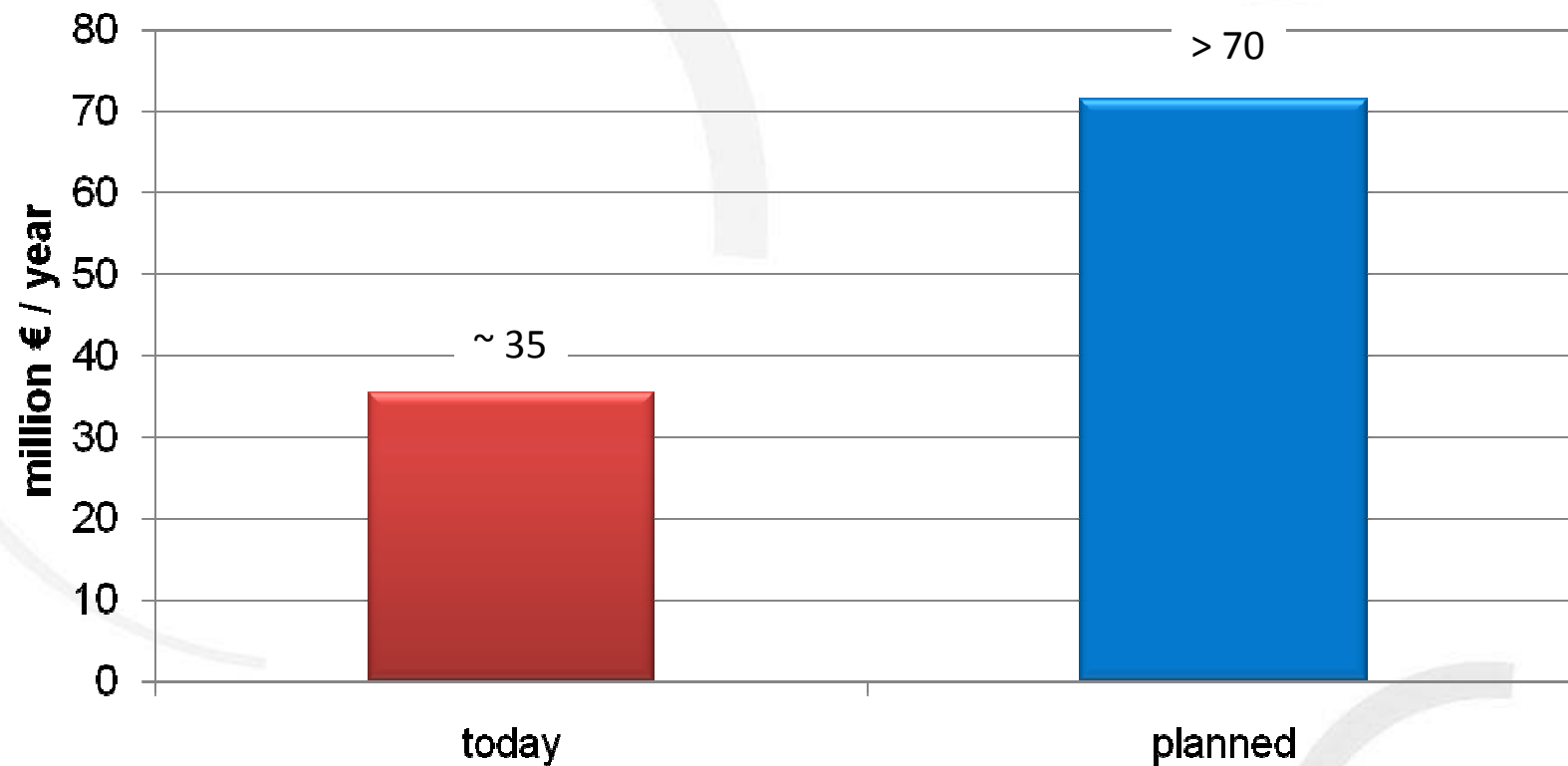
Today, already 30 HyRaMP regions are taking ambitious efforts to support COP 15 essentials by implementing FCH technologies:

- HyRaMP members have launched „**state initiatives**“ or „**networks**“, that bring together partners from industry and science and initiate projects incl. significant financial resources.
- These state activities pursue **economic and industrial policy (e.g. incentives, local regulations, ..)** related objectives: strengthen the business location and safeguard local employment.
- Common perspective: FCH technology will contribute to **climate protection and reduction of the energy dependency**. Climate protection technologies like FCH are already considered as a serious economic perspective for regional economies.

HyRaMP R&D Budget – A strong Commitment



**Budget of the HyRaMP Regions
for funding projects in the field of hydrogen and fuel cells per year***



*With data from 21 of 29 members

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HyRaMP is taking actions like ...

- ... Facilitating HyRaMP to act as **project partner and co-financer** in EC projects and programs.
- ... Following up with activities in the **demonstration** project for hydrogen **buses** (dissemination) and information to HyRaMP (AA 1).
- ... Initiating a **waste hydrogen study** / survey across HyRaMP regions (quantities, qualities and costs) (AA 2).
- ... Setting up of **local supply chain** initiatives (conducting a case study (AA 3)) and facilitate the **incorporation of the regional industry**, with regard to SMEs, to the ongoing projects or proposals (AA 4).
- ... Initiating a survey on suitable **market incentives** (AA 3).

COP 15 Essentials

HyRaMP is taking actions like ...

- ... Organising of an **education workshop** early 2010 (AA 5).
- ... Contributing to the **hydrogen vehicles event** during COP 15 and evaluation of annual major “**bridge crossing events**” in different parts of Europe each year.
- ... Being at the **WHEC 2010 in Essen**.

Bridge To Hydrogen

- **Hydrogen vehicles event** during COP 15: November 30, 2009 (<http://bridge2h.com>).



The screenshot shows the Bridge To Hydrogen website with a background image of a bridge over water. The website layout includes a header with the title "Bridge To Hydrogen" and a navigation bar. The main content area features a large image of a blue F-CELL car on a bridge, with the text "FCH Copenhagen Parade 30 Nov. 2009" above it. Below this image are links for "Full Program", "Registration", "Directions", "Image Gallery", and "Sponsors". To the left of the main content, there is a sidebar with several widgets: "Days remaining to COP 15" (showing 1 month, 10 days, 22 hours), "Hydrogen Event Calendar" (showing October 2009), "COP 15 on Twitter", "HyRaMP News", "EU Policy News of the EHA", "Global Hydrogen Bus Platform News", "News From the EU Commission", and "FCH Useful Links" (listing "European Industry Grouping for a Fuel Cell and Hydrogen Joint"). To the right of the main content, there is another sidebar with a "Search This Site" widget, an "FC Vehicle Parade Map" (showing a map of the Copenhagen area), and a "Have Your Say" widget (showing a comment from Marieke EHA).

Bridge To Hydrogen

Days remaining to COP 15
Opening Ceremony:
in 1 month, 10 days, 22 hours

Hydrogen Event Calendar
October 2009

M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

COP 15 on Twitter

HyRaMP News

EU Policy News of the EHA

Global Hydrogen Bus Platform News

News From the EU Commission

FCH Useful Links
European Industry Grouping for a Fuel Cell and Hydrogen Joint

FCH Copenhagen Parade 30 Nov. 2009

Full Program | Registration | Directions | Image Gallery | Sponsors

Background
Before and during the United Nations Climate Change Conference in Copenhagen (COP15) a number of hydrogen and fuel cell showcase and communication activities are under planning, to ensure visibility of the technology.

The aim is to exhibit a large fleet of hydrogenpowered vehicles and other fuel cell products and solutions and demonstrate their use in various transport and energy applications.

The initiative is organized by a task force consisting of representatives from the hydrogen & fuel cell Industry & Community and is lead by NEW-IG, together with the European Hydrogen Association.

The showcase will consist of three main elements:

Search This Site
Search for:

FC Vehicle Parade Map
Click here to download the our Google Earth Overlay

Have Your Say
Latest on Tue, 06:58 pm
Marieke EHA: Today at the Arnhem Region event at the EU Open Days of the region we discussed bridging the gap to commercial fuel cell buses: it's [...]
admin: Welcome to Bridge to Hydrogen
» Leave a comment
Name:
Comment:

WHEC 2010

Hydrogen Energy



Essen, Germany,
May 16 - 21, 2010

www.whec2010.com

Objective

- WHEC 2010 should become an international showcase for the capability and advances of H₂ and FC technology

Actions

- Establishing of the H₂ infrastructure and deployment of FC technology in as many applications as possible (NRW Hydrogen Hyway, NIP, JTI, IPHE)
- Invitation of German as well as European and international projects and partners to Essen
- Showcase of concrete projects and products not only to experts but also to the general public

Outcome of HyRaMP's 2nd Annual General Meeting



- European progress in FCH is remarkable.
- Better coordination between both FCH actors and to other significant initiatives (e.g. electric transport, other clean technologies) is needed to accelerate overall development.
- Important partners may become
 - Green Car Initiative
 - SET Plan actors (e.g. smart cities)
 - European Investment Bank (EIB)
 - Covenant of the Mayors
- HyRaMP will follow-up the AGM and establish regular communications with these initiatives soon.

Summary

HyRaMP's answer to Mr. de Boer:

- HyRaMP members are committed to take significant action on climate protection by developing and implementing FCH technologies.
- HyRaMP contributes to COP 15 essentials by facilitating concrete actions on regional level based on strong economic interests.
- HyRaMP's work is currently focused on two different objectives of HyRaMP members:
 - Support “front runners” to create as many best practices as possible to guide and convince potential actors.
 - Help “fast followers” to organise themselves to strengthen their involvement and to increase up-coming regional support for FCH.

Thank you for your attention!

www.hy-ramp.eu

You can count on us!

