



EUROPEAN COMMISSION



Fuel Cells and Hydrogen Joint Undertaking (FCH JU) 2nd Stakeholders General Assembly

European Commission, Charlemagne building,
Rue de la Loi 170, B-1040 Brussels

For further information:
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Draft Programme 26 and 27 October 2009

Monday, 26 October

08:30 – 09:30

Registration and welcome coffee

Welcome – opening plenary session

09:30-10:00

De Gasperi room, 2nd floor, Charlemagne building

This session will set the scene for the Conference, with addresses from high level representatives of all the members of the Fuel Cells and Hydrogen Joint Undertaking: The European Commission, the NEW Industry Grouping and the N.ERGHY Research Grouping.

Welcome address by **Gijs van Breda Vriesman**, Chairman of the FCH JU Governing Board

Address by **Janez Potočnik**, European Commissioner for Science and Research

Address by **Philippe Mulard**, Hydrogen Programme Manager, *Total*, member of the FCH JU Industry Grouping

Address by Prof. **Jorma Lammasniemi**, Executive Vice President, *VTT Technical Research Centre of Finland*, member of N.ERGHY Research Grouping

Session 1: One year of the Fuel Cells and Hydrogen Joint Undertaking

10:00-11:30

Presentation of the FCH JU Progress Report and a panel discussion

De Gasperi room, 2nd floor, Charlemagne building

11:30-12:00

Question and Answer session with the audience

The purpose of this session is to review the progress of the FCH JU after a full year of operation with a focus on the experience of managing the public-private partnership, the planning of the research agenda and lessons learned from the first calls for proposals. Speakers will represent the points of view of different FCH JU bodies, as well as its members.

The plenary session will begin with a presentation by the FCH JU's Interim Executive Director on the state-of-play of the FCH JU, followed by a panel discussion involving representatives of the different governing bodies of the FCH JU, as well as other key stakeholders and a Q&A session with the audience.

Moderator – Lars Sjunnesson, member of the FCH JU Scientific Committee, President of European Hydrogen Association; formerly Vice-Chair of the HFC Technology Platform

Philippe Vannson, Interim Executive Director, FCH JU

Gijs van Breda Vriesman, Chairman of the FCH JU Governing Board

Raffaele Liberali, Director, European Commission, DG RTD, Directorate K - Energy

Paul Lucchese, Chairman, N.ERGHY Research Grouping

Georg Menzen, Vice-Chairman, FCH JU States Representatives Group

Knut Harg, Chairman, FCH JU Scientific Committee

12:00 – 13:30

Lunch

Lobby, 2nd floor, Charlemagne building

Session 2: European projects in fuel cells and hydrogen today: Looking at the progress being made and identifying cooperation opportunities for the future

13:30 – 15:15

Parallel sessions by application areas

See location by application area specific session

These sessions will provide a platform for an exchange of information on interesting new and ongoing projects at national, regional and European level. The sessions will offer an opportunity for the participants to familiarise themselves with different initiatives in the field and prepare the ground for coordination and cooperation between different programmes in order to identify synergies and plan future projects.

A. TRANSPORTATION AND REFUELLING INFRASTRUCTURE

De Gasperi room, 2nd floor, Charlemagne building

Moderators: **Jörg Wind**, Application Area Leader, *NEW Industry Grouping*
Steffen Møller-Holst, Application Area Leader, *N.ERGHY Research Grouping*

Per Ekdunge, Chief Technology Officer, Powercell Sweden AB:
HyTRAN - Hydrogen and Fuel Cell Technologies for Road Transport

Heinrich Lienkamp, Head of Energy and Process Engineering, Infracore Höchst:
ZERO REGIO - Experience with FC-vehicles and hydrogen infrastructure

Gøril L. Andreassen, Transport Policy Advisor, Zero Emission Resource Organisation (ZERO):
HyNor - Leading the way towards a renewable transport sector

Verónica Mesa Vélez-Bracho, Head of the Systems Engineering Division, Coordinator of Hercules, Hynergreen Technologies, S.A.:
Hercules - Production of renewable hydrogen by means of solar energy and demonstration of the feasibility of utilization of hydrogen as a fuel in the transport sector

B. STATIONARY POWER GENERATION AND CHP

Jenkins room, ground floor, Charlemagne building

Moderators: **Jonathan Lewis**, Application Area Leader, *NEW Industry Grouping*
Rolf Rosenberg, Application Area Leader, *N.ERGHY Research Grouping*

Kai Klinder, CFO, Programme Management Stationary Fuel Cells, NOW:
Callux and other NIP lighthouse projects in stationary fuel cell applications

Bert Rietveld, Energy Research Centre of the Netherlands (ECN):
SOFC600 - Development of low-temperature SOFC stack components

Bob Flint, Commercial Director, Ceres Power Limited :
CERES - Centrica CHP programme

Marco Schembri, Head of Research Projects Funding and Coordination dept., CETENA S.p.A.:
MC-WAP - Molten-carbonate fuel Cells for Waterborne Application

C. HYDROGEN PRODUCTION AND DISTRIBUTION

Mansholt room, ground floor, Charlemagne building

Moderators: **Philippe Mulard**, Application Area Leader, *NEW Industry Grouping*
Christian Sattler, Application Area Leader, *N.ERGHY Research Grouping*

Athanasios G. Konstandopoulos, Coordinator of Hydrosol II, APT Lab, CPERI/CERTH:
Hydrosol II - Solar hydrogen from thermochemical water-splitting: The HYDROSOL process and beyond

Peter Edwards, Professor and Head of Inorganic Chemistry, University of Oxford;
UK Sustainable Hydrogen Energy Consortium (UK-SHEC), Management Director:
Presenting UK-SHEC – UK Sustainable Hydrogen Energy Consortium

Werner Diwald, Board Member, ENERTRAG:
ENERTRAG - Hybrid biomass-wind-hydrogen power station

Enzo Moi, Managing Director, Veneto Innovazione; and
Roberto Bertaglia, Director of the “Chemistry Agreement” Management Office, “Progetto Venezia”
Department, Veneto Region:
The Veneto Hydrogen Cluster in Porto Marghera

D. EARLY MARKETS

Meeting Room No 9, Berlaymont building – Please gather at the Berlaymont main entrance at 13h15! Please pre-register at the welcome desk upon arrival to the Assembly!

Moderator: Herbert Wancura, Application Area Leader, *NEW Industry Grouping*

Adwin Martens, Director, WaterstofNet:
Hydrogen Region Flanders- South-Netherlands (VSWB) - Early market demonstrations on hydrogen for the region Flanders-South-Netherlands

Mikael Sloth, Business Development Manager, H2 Logic A/S:
Hydrogen & fuel cells for material handling in Europe by H2Logic

Giuseppe Gianolio, Chief Technology Officer, Electro Power Systems:
Electro Power Systems – Product development in mobile telephone UPS systems

Viala Marie, Business Engineer, HELION / Group AREVA
Helion high power PEMFC backup power systems operating on pure hydrogen and oxygen

15:15 – 15:45

Coffee break

Lobby, 2nd floor, Charlemagne building

Session 3: Planning ahead: Introducing key partners

15:45-17:00

De Gasperi room, 2nd floor, Charlemagne building

Coordinating efforts at all levels and aligning different programmes is crucial to tackling the bottlenecks delaying the commercialisation of fuel cell and hydrogen technologies. This plenary session closes Day 1 of the Conference by introducing some of the key national and regional actors and identifying areas and modalities of cooperation.

Moderator – Herbert Wancura, *Member of the FCH JU Governing Board*

Heinrich Klingenberg, Director, *hySOLUTIONS GmbH*:
Improving co-operation between regional programs and the FCH Joint Undertaking: Hamburg

Aksel Mortensgaard, Director, *The Danish Partnership for Hydrogen and Fuel Cells*, Vice-Chair of the FCH JU States Representatives Group:
Presenting the Danish Partnership for Hydrogen and Fuel Cells

Patrick Maio, Executive Director, *FuelCellEurope*:
Building the demand side: Fuel cells in the postal service industry (Royal Mail)

Antonio González García-Conde, Chairman, *International Energy Agency Hydrogen Implementing Agreement (IEA HIA)*:
Presenting the IEA HIA

17:00 – 17:15

Closing remarks – Herbert Wancura, Member of the FCH JU Governing Board

De Gasperi room, 2nd floor, Charlemagne building

17:15 – 19:00

Cocktail Reception

Lobby, 2nd floor, Charlemagne building

Tuesday, 27 October

8:00-8:45

Registration and welcome coffee

8:45 - 9:00

Key-note speech by Fabrizio Barbaso, Deputy Director General for Energy, DG Energy and Transport, European Commission
De Gasperi room, 2nd floor, Charlemagne building

Session 4: The politics of clean energy: Fuel cells and hydrogen on the road to Copenhagen

9:00 – 10:45

De Gasperi room, 2nd floor, Charlemagne building

This session will focus on the political landscape, looking ahead to the Copenhagen climate change summit. FCH technologies already have a great potential for contributing towards climate change goals with the 2020 targets in view. How can these technologies be promoted through policy and their potential for green-house gas reductions fully realised?

<i>Moderator – Wiktor Raldow, Head of Unit, Unit K2: Energy Conversion Systems, DG Research, European Commission</i>

Sunita Satyapal , Director, Hydrogen Program, <i>US Department of Energy</i>

Hirohisa Aki , Deputy Director, Hydrogen & Fuel Cell Promotion Office, Agency for Natural Resources and Energy (ANRE), <i>Japanese Ministry of Economy, Trade and Industry (METI)</i>
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Tomas Kåberger , Director General, <i>Swedish Energy Agency</i>
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Stephan Singer , Director Global Energy Policy, <i>WWF</i>

Bernard Frois , Director of New Energy Technologies, <i>CEA-ANR/NTE</i>
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Andreas Ziolek , Chairman, <i>HyRaMP</i>

Stefan Tostmann , Head of Unit, Unit D2: Energy Technologies and Research Coordination, DG TREN, <i>European Commission</i>
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10:45 – 11:15

Coffee Break

Lobby, 2nd floor, Charlemagne building

11:15 - 11:30

Key-note speech by Takashi Moriya, Operating Officer and General Manager, Technology Research Division 1, Honda R&D Co. Ltd.
De Gasperi room, 2nd floor, Charlemagne building

Session 5: FCH technologies: Market opportunity in a changing world

11:30-13:15

De Gasperi room, 2nd floor, Charlemagne building

The purpose of this session is to position fuel cells and hydrogen in the context of a rapidly changing global market for energy technologies. The debate will focus on opportunities for fuel cells and hydrogen in the various markets, together with competition and complementarities vis-à-vis other technologies. Where are fuel cell and hydrogen technologies placed in the energy economy of the future?

Moderator – Nick Owen, Project Director - Research and Collaboration, Ricardo UK Ltd

Takashi Moriya, Operating Officer and General Manager, Technology Research Division 1, *Honda R&D Co. Ltd.*

Jörg Wind, Manager, *Daimler AG*

Erkko Fontell, Director, Fuel Cells, Product Centre Ecotech, *Wartsila*

Inger Pihl Byriel, Research Coordinator, *Energinet*

Paul Adcock, Director of Research and Technology, *Intelligent energy*

Eric Prades, Hydrogen Energy Director, *Air Liquide*

John Vogel, Director of the High Temperature Program, *Plug Power Inc.*

13:15-14:45

Lunch

Lobby, 2nd floor, Charlemagne building

Session 6: Building an energy system on complementarities: Identifying synergies between European Technology Platforms

14:45 – 16:30

De Gasperi room, 2nd floor, Charlemagne building

The energy system of the future will be built on different technologies complementing each other. Embryonic European public-private partnership initiatives are being established in a number of these in the form of European Technology Platforms. Cooperation between them must be fostered in order to optimise the results for all concerned. This session will aim at identifying synergies between FCH technologies and other related initiatives and ways to best utilise them. Participants will represent members of the different technology platforms from both industry and academia, including in the fields of CCS, bio fuels, smart grids, advanced materials, energy efficient buildings and electric vehicles.

<i>Moderator – Gijs van Breda Vriesman, Chairman of the FCH JU Governing Board</i>
Marco Falzetti , International Affairs Deputy Manager, <i>Centro Sviluppo Materiali</i> ; Steering Committee Chairman, <i>EuMat</i> - (European Technology Platform for Advanced Engineering Materials and Technologies)
Ingvar Landälv , VP Technology, <i>Chemrec</i> (European Biofuels Technology Platform)
Stefano Carosio , Division Manager, Research and Innovation, <i>D'Appolonia SpA</i> (Energy Efficient Buildings PPP)
Ronnie Belmans , Chairman, <i>Elia</i> ; Vice Chairman and Professor, <i>KU Leuven</i> (Smart Grids Forum)
Maria Barrio , Vice President Gas Technologies, <i>SINTEF Energy Research</i> (Zero Emissions Platform)
Simon Godwin , Director of EUCAR - European Council for Automotive R&D (Green Car Initiative)

16:30 - 17:15

Closing address by Jürgen Garche, Member of the FCH JU Scientific Committee

De Gasperi room, 2nd floor, Charlemagne building