

# Fuel Cells and Hydrogen

## Joint Undertaking

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## Joint Undertaking (FCH JU)

### 4<sup>th</sup> Stakeholders General Assembly

*"Towards the deployment of Fuel Cells and Hydrogen technologies"*

*Charlemagne Building  
Rue de la Loi 170, B-1000 Brussels*

*Preliminary programme  
23 November 2011*



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**8h30-9h00**

**Registration and welcome coffee**

### Session 1: Decarbonising Europe's economy: a public private effort

**9h00-9h20**

*Europe has reached a critical stage in achieving its decarbonisation objectives by 2050. Hydrogen and fuel cell technologies are key in that respect. With limited available financial resources and the investment climate under pressure, concerted action between all stakeholders is vital to ensure successful integration of fuel cells and hydrogen in the European energy and transport system. This opening session will set out the context of the conference providing "food for thought" throughout the rest of the day.*

**9h00-9h20**

Welcome, Agenda and outlook of the FCH Sector Ambitions, by Pierre-Etienne **Franc**, Chairman of the FCH JU Governing Board

### Session 2: FCH JU: the first successful SET- PLAN public private partnership

**9h20-10h20**

*The Fuel Cells and Hydrogen Joint Undertaking (FCH JU) was set up in 2008 as the first public/private partnership under the SET-plan, with a budget of ~1 €bn, shared between the European Commission, Industry and Research sector. In this session, the partners in this joint undertaking will, from experience, discuss what has been achieved so far (2008 – 2011) and look at the future role of public-private partnerships. The session will highlight FCH-JU achievements and breakthroughs and look into areas for further developments, taking into account the Programme review and the 1<sup>st</sup> Interim Evaluation of the FCH JU.*

#### **Panel discussion**

Moderator: Raffaele **Liberali**, Director of Directorate K - Energy, DG Research and Innovation, European Commission

Bert **De Colvenaer**, Executive Director of the FCH-JU

Pierre-Etienne **Franc**, Chairman of the NEW-IG

Paul **Lucchese**, Director New Energy Technologies, Commissariat à l'Énergie Atomique (CEA), Chairman of the N.ERGHY

Knut **Harg**, Chairman of the Scientific Committee and the Programme review

Bernard **Frois**, Director, Management Unit of New Energy technologies, CEA, Chairman of the States Representatives Group

Q&A with the audience (20 min)

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**10h20-10h45**

**Coffee break and networking**

**Session 3: From Concept to Reality: a concerted approach to integrate FCH technologies into future energy and transport systems**

**10h45- 13h00**

*Hydrogen and fuel cells technology has reached a decisive stage. To date, very significant investments have been made by all stakeholders to progress technological development. Regulatory and adequate financing mechanisms are needed to overcome the last obstacles to market entry and encourage early adopters to take the lead. Industrial and political leaders will address questions like: What is needed for market-deployment of clean alternative technologies? How can the public and private sector achieve together a low carbon economy by the integration of these FCH technologies in the future energy and transport system?*

**Panel discussion**

Moderator: Robert <b>McLeod</b> , Mlex
Laure <b>Chapuis</b> , Member of the Cabinet of Mr Siim Kallas, EC Vice-President and Commissioner for Transport
Rudolf <b>Strohmeier</b> , Deputy-Director General, Scientific advances, DG RTD, European Commission
Henri <b>Winand</b> , CEO of Intelligent Energy and Treasurer of the NEW-IG
Paul <b>Verhoef</b> , Head of the Unit Research and innovative transport systems, DG Mobility and Transport, European Commission
Maciej <b>Banach</b> , Under-Secretary of State, Ministry of Science and Higher Education, Poland <i>(invited)</i>
Mike <b>Weston</b> , Director of Operations for Transport for London
Oliver <b>Weinmann</b> , Managing Director of Vattenfall Europe Innovation GmbH
Maria <b>da Graça Carvalho</b> , Member of the European Parliament

Q&A with the audience (20 min)

**13h00-14h30**

**Lunch and networking**

**14h45-15h00**

**Video Vox Populi “Around Brussels to measure the level of awareness about FCH technologies”**

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### Session 4: International perspective and co-operation

#### 15h00-16h30

*Fuel Cells and Hydrogen technologies have long been identified as a great opportunity for innovation, economic growth and job creation, as well as a key option for long term emissions reduction. As both advanced and developing countries are investing huge amounts of money to prepare their economies and societies for fuel cells and hydrogen becoming one of the components for a clean energy future, how to ensure **a coherent international approach**? And where do we stand in the international spectrum? Speakers from around the world will share their national visions for FCH technology development and give their perspective on the European state of play.*

#### **Panel discussion**

Moderator: Bert <b>De Colvenaer</b> , Executive Director of the FCH-JU
Walter <b>Podolski</b> , Office of Fuel Cells and Hydrogen technologies, Department of Energy, USA
Seung Young <b>Chung</b> , Fuel cell coordinator of Korea's national green technology roadmap, KETEP Korea Energy Technology Evaluation and Planning
Tadashi <b>Ito</b> , Chief Officer Fuel Cells and Hydrogen Technology Group, NEDO, Japan
Marc <b>Steen</b> , Head of Unit Cleaner energies, DG Joint Research Centre, European Commission
Micol <b>Martinelli</b> , Senior Advisor International Affairs, European Chambers of Commerce and Industry - Eurochambres
Nilgün <b>Parker</b> , Chair of the Steering Committee of the IPHE

Q&A with the audience (20 min)

#### 16h30-17h00

#### **Coffee break and networking**

### Session 5: Appropriate regulatory and financial frameworks required to bring innovation – including FCH - to the market

#### 17h00- 18h30

*One of the key questions is how to bring innovation to the market. Since the introduction of clean technologies is driven by societal choices rather than economic ones, the market will not cater for change by itself. What is needed to bridge the gap between successful demonstrations to commercial*

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*deployment of clean technologies? How to best combine national, regional and European initiatives?  
What are the current policy-gaps and how should these be over-come?*

### ***Panel discussion***

Moderator: Jean <b>Pisani-Ferry</b> , Director of Bruegel Institute
Fotis <b>Karamitsos</b> , Director Directorate C Innovative and sustainable mobility, DG Mobility and Transport, European Commission
Marc <b>D'hooge</b> , RSFF Programme Manager, Deputy Head of Division New Product Development Division Research, Development and Innovation (RDI)
Tudor <b>Constantinescu</b> , Principal Advisor and Acting Director Directorate A Energy Policy, DG ENER, European Commission
Christian <b>Mohrdieck</b> , Director fuel cells and battery drive development, Daimler AG
Georg <b>Zachmann</b> , Research Fellow at Bruegel Institute
Herbert <b>Dorfmann</b> , Member of the European Parliament
Andreas <b>Ziolek</b> , Chairman of HyER - Hydrogen Fuel Cells and Electro-mobility for European Regions and Director of the Network for Fuel Cells and Hydrogen of North Rhine-Westphalia.

Q&A with the audience (20 min)

**18h30-18h45**

Closing: Bert **De Colvenaer**, Executive Director of the FCH JU