

# STAKEHOLDER FORUM & PROGRAMME REVIEW DAYS



BRUSSELS, 14-16 NOVEMBER 2018

## STAKEHOLDER FORUM

BRUSSELS, 16 NOVEMBER 2018

## PROGRAMME REVIEW DAYS

BRUSSELS, 14, 15 NOVEMBER 2018

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# PROGRAMME REVIEW DAYS 2018

## FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

14 - 15 NOVEMBER, BRUSSELS

### WEDNESDAY, 14 NOVEMBER 2018

08:15 - 08:45

**Registration and coffee**

08:45 - 09:00

**Opening remarks by**

ATANASIU MIRELA, Head of Unit Operations & Communication FCH JU

#### **SESSION**

##### **TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATIONS -TRANSPORT**

Moderators: BOILLOT LIONEL, ROBERT STEINBERGER-WILCKENS

09:00 - 09:20

Portfolio overview by BOILLOT LIONEL, FCH JU

09:20 - 09:40

H2ME / H2ME2, Hydrogen Mobility Europe

09:40 - 10:00

SWARM, Demonstration of Small 4-Wheel fuel cell passenger vehicle Applications in Regional and Municipal transport

10:00 - 10:20

JIVE, Joint Initiative for hydrogen Vehicles across Europe

10:20 - 10:40

HyLIFT-EUROPE, Large scale demonstration of fuel cell powered material handling vehicles

10:40 - 11:00

Metering protocol for Hydrogen Refuelling Stations

11:00 - 11:30

**Coffee break**

#### **SESSION**

##### **TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATIONS - ENERGY**

Moderators: AGUILO RULLAN ANTONIO, ARISTIDE MASSARDO

11:30 - 11:50

Portfolio overview by AGUILO RULLAN ANTONIO, FCH JU

11:50 - 12:10

PACE, Pathway to a Competitive European FC mCHP market

12:10 - 12:30

AutoRE, Automotive derivative Energy system

12:30 - 12:50

CH2P, Cogeneration of Hydrogen and Power using solid oxide based system fed by methane rich gas

12:50 - 13:10

DEMCOPEM-2MW, Demonstration of a combined heat and power 2 MWe PEM fuel cell generator and integration into an existing chlorine production plant

13:10 - 13:30

CLEARGEN DEMO, The Integration and demonstration of Large Stationary Fuel Cell Systems for Distributed Generation



13:30 - 14:30 **Lunch break**

**SESSION**  
**SUPPORT FOR MARKET UPTAKE**

Moderators: GARCIA HOMBRADOS ALBERTO, HUBERT A. GASTEIGER

- 14:30 - 14:50 Portfolio overview by GARCIA HOMBRADOS ALBERTO, FCH JU
- 14:50 - 15:10 Overview of FCH JU Initiative with Regions and Cities
- 15:10 - 15:30 HyLAW, Identification of legal rules and administrative processes applicable to Fuel Cell and Hydrogen technologies' deployment, identification of legal barriers and advocacy towards their removal.
- 15:30 - 15:50 Study on value chain and manufacturing competitiveness analysis for hydrogen and fuel cells technologies
- 15:50 - 16:10 HySEA, Improving Hydrogen Safety for Energy Applications (HySEA) through pre-normative research on vented deflagrations
- 16:10 - 16:30 NET-TOOLS, Novel Education and Training Tools based on digital applications related to Hydrogen and Fuel Cell
- 16:30 - 16:50 Guarantees of Origin, Developing a European Framework for the generation of guarantees of origin for green hydrogen

16:50 - 17:30 Pitching Event, Moderator: FRANCESCA NATALI

17:30-18:30 Poster Session (Cocktails and appetizers)

**THURSDAY, 15 NOVEMBER 2018**

08:30 - 09:00 **Registration and coffee**

**SESSION**  
**NEXT GENERATION OF PRODUCTS - TRANSPORT**

Moderators: CALOPRISCO PIETRO, DARIA E. VLADIKOVA

- 09:00 - 09:20 Portfolio overview by CALOPRISCO PIETRO, FCH JU
- 09:20 - 09:40 MARANDA, Marine application of a new fuel cell powertrain validated in demanding arctic conditions
- 09:40 - 10:00 HYCARUS, Hydrogen Cells For Airborne Usage
- 10:00 - 10:20 COSMHYC, Combined hybrid Solution of Multiple Hydrogen Compressors for decentralised energy storage and refuelling stations
- 10:20 - 10:40 VOLUMETRIQ, Volume Manufacturing of PEM FC Stacks for Transportation and In-line Quality Assurance
- 10:40 - 11:00 DIGIMAN, Digital Materials Characterisation proof-of-process auto assembly

11:00 - 11:30 **Coffee break**

**SESSION**  
**NEXT GENERATION OF PRODUCTS - ENERGY**

Moderators: TSIMIS DIONISIS, JULIE MOUGIN

- 11:30 - 11:50 Portfolio overview by TSIMIS DIONISIS, FCH JU
- 11:50 - 12:10 HEALTH-CODE, Real operation per fuel cells HEALTH-state monitoring and diagnosis based on dc-dc Converter embedded.
- 12:10 - 12:30 HEATSTACK, Production Ready Heat Exchangers and Fuel Cell Stacks for Fuel Cell mCHP
- 12:30 - 12:50 CELL3DITOR, Cost-effective and flexible 3D printed SOFC stacks for commercial applications
- 12:50 - 13:10 qSOFC, Automated mass-manufacturing and quality assurance of Solid Oxide Fuel Cell stacks
- 13:10 - 13:30 INNO -SOFC, Development of innovative 50 kW SOFC system and related value chain

13:30 - 14:30 **Lunch break**

**SESSION**  
**HYDROGEN FOR SECTORIAL INTEGRATION**

Moderators: LYMPEROPOULOS NIKOLAOS, MARCELLO BARICCO

- 14:30 - 14:50 Portfolio overview by LYMPEROPOULOS NIKOLAOS, FCH JU
- 14:50 - 15:10 HPEM2GAS, High Performance PEM Electrolyser for Cost-effective Grid Balancing Applications
- 15:10 - 15:30 INSIDE, In-situ Diagnostics in Water Electrolysers
- 15:30 - 15:50 GrinHy, Green Industrial Hydrogen via Reversible High-Temperature Electrolysis
- 15:50 - 16:10 MEGASTACK / REFHYNE, Stack design for a Megawatt scale PEM electrolyser.
- 16:10 - 16:30 H2Future, Hydrogen Meeting Future Needs Of Low Carbon Manufacturing Value Chains
- 16:30 - 16:50 BIG HIT, Building Innovative Green Hydrogen systems in an Isolated Territory: a pilot for Europe

08:30 - 09:00 **Registration & welcome coffee**

09:00 - 09:30 **OPENING ADDRESS**

- DOMINIQUE RISTORI, Director-General for Energy, European Commission
- VALERIE BOUILLON-DELPORTE, Chair of the FCH JU Governing Board
- LAURENT ANTONI, President of Hydrogen Europe Research
- BART BIEBUYCK, Executive director FCH JU

09:30 - 11:00 **SESSION I - BUILDING THE ROAD TO CONSUMERS**

**The strategic development of the hydrogen infrastructure in Europe**

- MAJA BAKRAN, Deputy Director-General, Directorate-General for Mobility and Transport, European Commission
- KLAUS DIETER BORCHARDT, Director - Internal Energy Market, Directorate-General for Energy, European Commission
- JON ANDRÉ LØKKE, Chief Executive Officer NEL Hydrogen
- THIERRY TROUVÉ, Chief Executive Officer, GRTgaz
- NIKOLAS IWAN, Managing Director, H2 Mobility Deutschland
- JAN INGWERSEN, General Manager, ENTSOG (European Network of Transmission System Operators for Gas)

11:00 - 11:30 **Coffee break**

11:30 - 11:45 Keynote Speech - MAROŠ ŠEFČOVIČ, Vice-President of the European Commission for Energy Union

11:45 - 13:00 **SESSION II - WORKING TOGETHER: TOWARDS SECTORIAL INTEGRATION**

**Towards sectorial integration through collaboration with other players**

- TUDOR CONSTANTINESCU, Principal Adviser to the Director General for Energy, European Commission
- DR. RUDOLF ZAUNER, Head of Hydrogen Center, VERBUND
- RENE SCHUTTE, Hydrogen coordinator, Gasunie
- PASCAL MAUBERGER, Chief Executive Officer McPhy
- STIJN VAN ELS, Special Advisor, Shell Germany
- HENRIETTE UNDRUM, Vice President New Energy Solutions, Equinor

# FCH JU STAKEHOLDER FORUM

16 NOVEMBER 2018

# POSTERS

13.00 - 14.30 **Lunch break**

14.30 - 14.35 Video message from VICTORIEN EURSSARD, Captain of Energy Observer

14.35 - 16.00 **SESSION III - EUROPEAN HYDROGEN ECONOMY IN A WORLDWIDE CONTEXT**

- JOSÉ COTTA, Head of Unit, Directorate-General for Research and Innovation, European Commission
- PIOTR SZYMANSKI, Director - Energy, Transport and Climate, Petten Institute JRC
- DR. FLORENCE LAMBERT, Director, CEA Liten
- UWE REMME, Directorate of Sustainability, Technology and Energy, IEA (International Energy Agency)
- RALUCA MARIAN, Senior Adviser – Passenger Transport, IRU (International Road Transport Union)
- PETE HARRISON, Transport Programme Director, European Climate Foundation
- UMBERTO GUIDA, Director of Research and Innovation, UITP (International Association of Public Transport)

16.00 - 16.30 **CLOSING STATEMENTS**

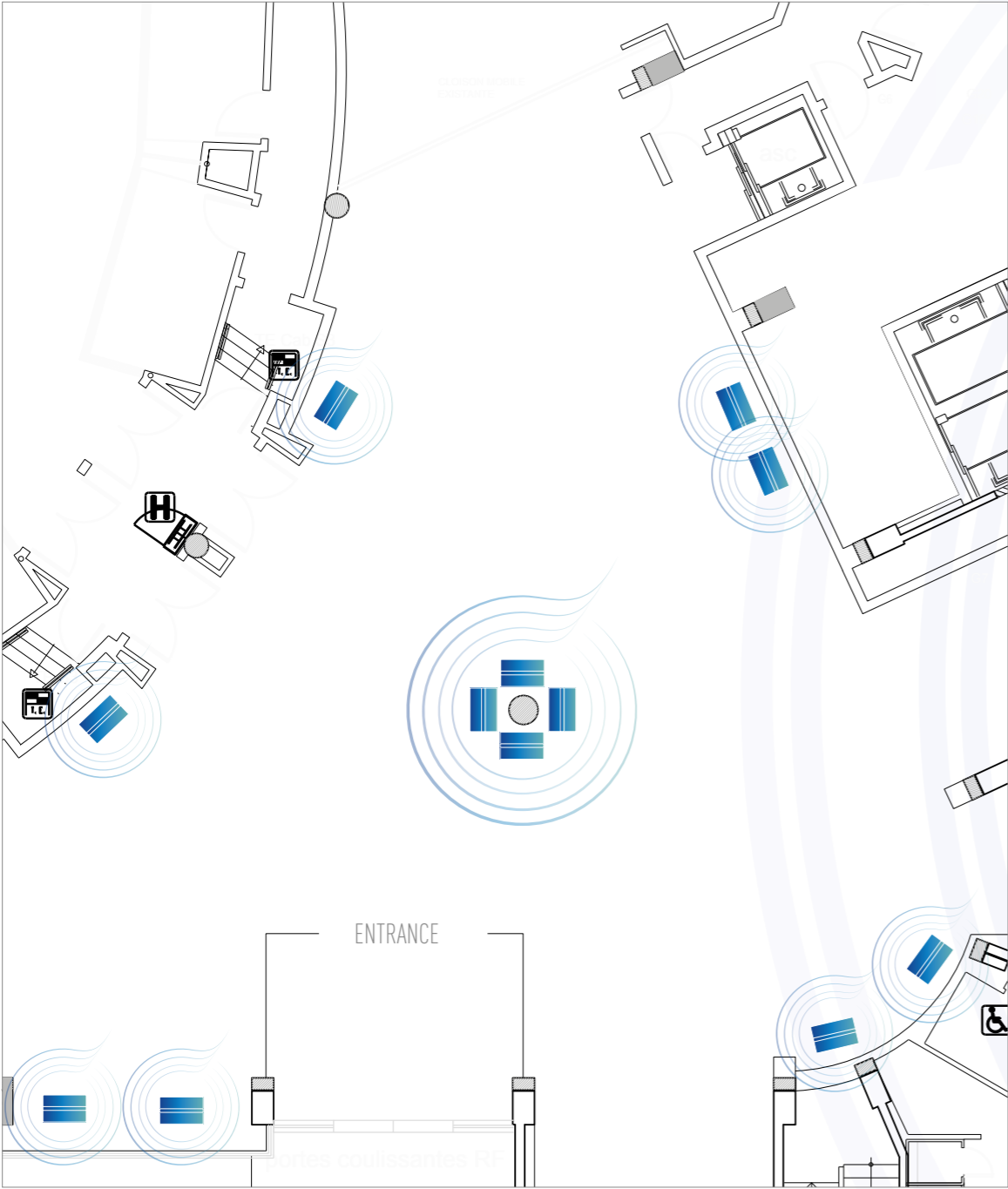
- BART TOMMELEIN, Deputy Minister-President, Minister of Budget, Finance and Energy of the Flanders region
- SIGNE RATSO, Deputy Director-General of DG Research and Innovation, European Commission
- MAURO PETRICCIONE, Director General for Climate Action, European Commission


Moderator: KATRINA SICHEL  
Charlemagne Building, Brussels, Belgium

TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATION - TRANSPORT	NEXT GENERATION OF PRODUCTS - TRANSPORT	TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATION - ENERGY	NEXT GENERATION OF PRODUCTS - ENERGY	HYDROGEN FOR SECTORIAL INTEGRATION	SUPPORT FOR MARKET UPTAKE
H2ME HAWL HYFIVE HYLIFT-EUROPE HYTRANSIT JIVE SWARM H2ME 2	AUTO-STACK CORE COBRA COSMHYC DIGIMAN Fit-4-AMandA H2REF HYCARUS INLINE INN-BALANCE INSPIRE MARANDA NANO-CAT SMARTCAT VOLUMETRIQ COMPASS Giantleap	ALKAMMONIA AUTORE CH2P CLEARGEN DEMO D2SERVICE DEMCOPEM-2MW DEMOSOFC ENE.FIELD ONSITE PACE PEMBEYOND POWER-UP STAGE-SOFC	Cell3Ditor DIAMOND ENDURANCE FLUIDCELL HEALTH-CODE HEATSTACK INSIGHT MATISSE NELLHI PROSOFC qSOFC SCORED 2:0 SECOND ACT SOSLeM INNO-SOFC	BIONICO BIOROBURplus Demo4Grid DON QUICHOTE Eco ELECTRA ELY40FF ELYntegration GrInHy H2Future HELMETH HPEM2GAS HyBalance HYDROSOL-PLANT HyGrid INSIDE MEGASTACK PECDEMO PECSYS QualyGridS SElySOs SOPHIA BIG HIT MEMPHYS	HYACINTH HYCORA HyLAW HYPACTOR HySEA HYTECHCYCLING KNOWHY NET-Tools SOCTESQA



# SITE MAP



 Touch screen displaying all posters





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