

PROGRAMME REVIEW DAYS 2019

FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

19 - 20 NOVEMBER, BRUSSELS

TUESDAY, 19 NOVEMBER 2019

08:15 - 08:45 **Registration and coffee**

08:45 - 09:00 **Overview FCH JU Portfolio**

Opening remarks by ATANASIU MIRELA, Head of Unit Operations & Communication FCH JU

SESSION: HYDROGEN FOR SECTORAL INTEGRATION

RESEARCH

Moderators: LYMPEROPOULOS NIKOLAOS, MARCELLO BARICCO

09:00 - 09:20

Portfolio overview by NIKOLAOS LYMPEROPOULOS, FCH JU

09:20 - 09:40

ELYntegration, Grid Integrated Multi Megawatt High Pressure Alkaline Electrolysers for Energy Application

09:40 - 10:00

ELY40FF, PEM ElectroLYsers FOR operation with OFFgrid renewable installations

10:00 - 10:20

SElySOs, Development of new electrode materials and understanding of degradation mechanisms on Solid Oxide High Temperature Electrolysis Cells.

10:20 - 10:40

BIONICO, BIOgas membrane reformer for deceNtralized hydrogen produCtiOn

10:40 - 11:00

PECSYS, Technology demonstration of large-scale photo-electrochemical system for solar hydrogen production

11:00 - 11:30

Coffee break

TRIALS AND DEPLOYMENT

Moderators: LYMPEROPOULOS NIKOLAOS, ROBERT STEINBERGER-WILCKENS

11:30 - 11:50

HyBalance, HyBalance

11:50 - 12:10

Demo4Grid, Demonstration of 4 MW Pressurized Alkaline Electrolyser for Grid Balancing Services

12:10 - 12:30

Haeolus, Hydrogen-Aeolic Energy with Optimised eLectrolysers Upstream of Substation

12:30 - 12:50

Study on Opportunities arising from the inclusion of Hydrogen **Energy Technologies in the Energy & Climate Plans**

12:50 - 13:50

Lunch break



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SESSION: FUEL CELL APPLICATIONS FOR ENERGY

13:50 - 14:20

Portfolio overview by ANTONIO AGUILO RULLAN & DIONISIS TSIMIS, FCH JU

NEXT GENERATION OF PRODUCTS

Moderators: TSIMIS DIONISIS, JULIE MOUGIN

14:20 - 14:40

SOSLeM, Solid Oxide Stack Lean Manufacturing

14:40 - 15:00

MAMA-MEA, Mass manufacture of MEAs using high speed deposition processes

15:00 - 15:20

Eco, Efficient Co-Electrolyser for Efficient Renewable Energy Storage - Eco

15:20 - 15:40

Coffee break

TRIALS AND DEPLOYMENT

Moderators: AGUILO RULLAN ANTONIO, ARISTIDE MASSARDO

15:40 - 16:00

D2Service, Design of 2 technologies and applications to service

16:00 - 16:20

PACE, Pathway to a Competitive European FC mCHP market

16:20 - 16:40

Everywh2ere, Making hydrogen affordable to sustainably operate Everywhere in European cities

16:40 - 17:00

Remote, Remote area Energy supply with Multiple Options for integrated hydrogen-based Technologies

17:00 - 18:30

Welcome Reception & Project Posters Session



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WEDNESDAY, 20 NOVEMBER 2019

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

SESSION: FUEL CELL APPLICATIONS FOR TRANSPORT

NEXT GENERATION OF PRODUCTS

Moderators: PIETRO CALOPRISCO, DARIA E. VLADIKOVA

09:00 - 09:20

Portfolio overview by PIETRO CALOPRISCO, FCH JU

09:20 - 09:40

INLINE, Design of a flexible, scalable, high quality production line for PEMFC manufacturing

09:40 - 10:00

Fit-4-AMandA, Future European Fuel Cell Technology: Fit for Automatic Manufacturing and Assembly

10:00 - 10:20

INSPIRE, Integration of Novel Stack Components for Performance, Improved Durability and Lower Cost

10:20 - 10:40

H2REF, Development of a Cost Effective And Reliable Hydrogen Fuel Cell Vehicle Refuelling System

10:40 - 11:00

TAHYA, TAnk HYdrogen Automotive

11:00 - 11:30

Coffee break

11:30 - 11:50

Portfolio overview by LIONEL BOILOT, FCH JU

TRIALS AND DEPLOYMENT

Moderators: LIONEL BOILOT, DEBORAH J. JONES

11:50 - 12:10

H2ME/H2ME2, Hydrogen Mobility Europe.

12:10 - 12:30

Development of the **European HRS availability system**

12:30 - 12:50

HIGH V.LO-CITY, Cities speeding up the integration of hydrogen buses in public fleets

12:50 - 13:10

HYTRANSIT, European Hydrogen Transit Buses in Scotland

13:10 - 13:30

REVIVE, Refuse Vehicle Innovation and Validation in Europe

13:30 - 14:30

Use of fuel cells and hydrogen in the **railway environment**

13:30 - 14:30

Lunch break



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SESSION: SUPPORT FOR MARKET UPTAKE

Moderators: ALBERTO GARCIA HOMBRADOS, HUBERT A. GASTEIGER

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| 14:10 - 14:30 | Portfolio overview by ALBERTO GARCIA HOMBRADOS, FCH JU |
| 14:30 - 14:50 | HYDRAITE, Hydrogen delivery risk assessment and impurity tolerance evaluation |
| 14:50 - 15:10 | TeacHy, Teaching Fuel Cell and Hydrogen Science and Engineering Across Europe within Horizon 2020 |
| 15:10 - 15:30 | HYTECHCYCLING, New technologies and strategies for fuel cells and hydrogen technologies in the phase of recycling and dismantling |
| 15:30 - 15:50 | Hydrogen Safety Panel |
| 15:50 - 16:10 | JRC - Overview |
| 16:10 - 16:20 | Hydrogen Europe, NICOLAS BRAHY
Strategic Research & Innovation Agenda following 2020 |
| 16:20 - 16:30 | Closing remarks by BIEBUYCK BART, Executive Director FCH JU |

TUESDAY, 19 NOVEMBER 2019

17:00 - 18:30 PROJECT POSTERS

HYDROGEN FOR SECTORAL INTEGRATION	NEXT GENERATION OF PRODUCTS - ENERGY	TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATIONS - ENERGY	NEXT GENERATION OF PRODUCTS - TRANSPORT	TRIALS AND DEPLOYMENT OF FUEL CELL APPLICATIONS - TRANSPORT	SUPPORT FOR MARKET UPTAKE
ECo GAMER GrInHy REFLEX SElySOs Demo4Grid ELY40FF ELYntegration H2Future Haeolus HPEM2GAS HyBalance INSIDE NEPTUNE PRETZEL QualyGrids REFHYNE PECSYS BIONICO BIOROBURplus HYDROSOL-PLANT HySTOC HyGrid MEMPHYS BIG HIT	Cell3Ditor HEATSTACK MAMA-MEA qSOFC SOSLeM INNO-SOFC GRASSHOPPER HEALTH-CODE INSIGHT OxiGEN	D2SERVICE PACE ALKAMMONIA STAGE-SOFC EVERYWHERE REMOTE CLEARGEN DEMO DEMCOPEM-2MW AUTORE CH2P COMSOS DEMOSOFC	FLHYSAFE Giantleap HYCARUS MARANDA DIGIMAN Fit-4-AMandA INLINE INN-BALANCE INSPIRE VOLUMETRIQ TAHYA COSMHYC H2REF PEGASUS CRESCENDO	3EMOTION HIGH V.LO-CITY HYTRANSIT JIVE JIVE 2 H2ME H2ME 2 SWARM ZEFER HYLIFT-EUROPE REVIVE	HyLAW NET-Tools TeachHy HYDRAITE HySEA ID-FAST PRESLHY HYTECHCYCLING