



THURSDAY, 23 NOVEMBER 2017

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

08:45 - 09:00 **Opening remarks**

Atanasiu Mirela, Head of Unit Operations & Communication FCH JU

PANEL 4

RESEARCH ACTIVITIES FOR STATIONARY APPLICATIONS: Materials, components, diagnosis, performance phenomena, subsystem design and production

09:00 - 09:20 Portfolio overview by Tsimis Dionisis, FCH JU

09:20 - 09:40 ENDURANCE: Enhanced durability materials for advanced stacks of new solid oxide fuel cells

09:40 - 10:00 SECOND ACT: Simulation, statistics and experiments coupled to develop optimized and durable μ CHP systems using accelerated tests

10:00 - 10:20 SOSLeM: Solid Oxide Stack Lean Manufacturing

10:20 - 10:40 NELLHI: New all-European high-performance stack: design for mass production

10:40 - 11:00 MATISSE: Manufacturing improved stack with textured surface electrodes for stationary and CHP applications

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

PANEL 2

RESEARCH ACTIVITIES FOR TRANSPORT APPLICATIONS: MEAs, components, stacks and subsystems, hydrogen refuelling stations

11:30 - 11:50 Portfolio overview by Caloprisco Pietro, FCH JU

11:50 - 12:10 NANO-CAT: Development of advanced catalysts for PEMFC automotive applications

12:10 - 12:30 IMPACT: Improved lifetime of automotive application fuel cells with ultra-low Pt-loading

12:30 - 12:50 GIANTLEAP: Giantleap Improves Automation of Non-polluting Transportation with Lifetime Extension of Automotive PEM fuel cells

12:50 - 13:10 COMPASS: Competitive Auxiliary Power Units for vehicles based on metal supported stack technology

13:10 - 13:30 AUTO-STACK CORE: Automotive Fuel Cell Stack Cluster Initiative for Europe II

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

PANEL 5

HYDROGEN PRODUCTION, DISTRIBUTION AND STORAGE: research and validation

14:30 - 14:50 Portfolio overview by Lympieropoulos Nikolaos, FCH JU

14:50 - 15:10 DON QUICHOTE: Demonstration of new qualitative concept of hydrogen out of wind turbine electricity

15:10 - 15:30 ELECTRA: High temperature electrolyser with novel proton ceramic tubular modules of superior efficiency, robustness, and lifetime economy

15:30 - 15:50 HyBalance

15:50 - 16:10 EDEN: High energy density Mg-based metal hydrides storage system

16:10 - 16:30 HYDROSOL-PLANT: Thermochemical hydrogen production in a solar monolithic reactor: construction and operation of a 750 kWth plant

16:30 - 16:50 Early Business Cases study for H₂ in Energy Storage

16:50 - 18:20 **Poster session (all panels) and networking cocktail**



FRIDAY, 24 NOVEMBER 2017

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

PANEL 1

TECHNOLOGY VALIDATION IN TRANSPORT APPLICATIONS: vehicles, infrastructures, APU, fuel cells

- 09:00 - 09:20 Portfolio overview by **Giron Enrique**, FCH JU
- 09:20 - 09:40 3EMOTION: Environmentally Friendly, Efficient Electric Motion
- 09:40 - 10:00 Clustering Bus Study
- 10:00 - 10:20 H2ME 2: Hydrogen Mobility Europe 2
- 10:20 - 10:40 HRS Availability Study
- 10:40 - 11:00 HYLIFT-EUROPE: Large scale demonstration of fuel cell powered material handling vehicles

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

PANEL 6

CROSS-CUTTING: Pre-normative research, safety issues, education & training, socio-economic & benchmarking

- 11:30 - 11:50 Portfolio overview by **Alberto Garcia Hombrados**, FCH JU
- 11:50 - 12:10 HYPACTOR: Pre-normative research on resistance to mechanical impact of composite overwrapped pressure vessels
- 12:10 - 12:30 SOCTESQA: Solid oxide cell and stack testing, safety and quality assurance
- 12:30 - 12:50 HYTECHCYCLING: New technologies and strategies for fuel cells and hydrogen technologies in the phase of recycling and dismantling
- 12:50 - 13:10 KNOW HY: Improving the knowledge in hydrogen and fuel cell technology for technicians and workers
- 13:10 - 13:30 CERTIFHY and Guarantees of Origin: Developing a European Framework for the generation of guarantees of origin for green hydrogen

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

PANEL 3

TECHNOLOGY VALIDATION IN STATIONARY APPLICATIONS: CHP, back-up power

- 14:30 - 14:50 Portfolio overview by **Aguilo Rullan Antonio**, FCH JU
- 14:50 - 15:10 ENE.FIELD: European-wide field trials for residential fuel cell micro-CHP & PACE: Pathway to a Competitive European FC mCHP market
- 15:10 - 15:30 Business models and financing arrangements for the commercialisation of stationary applications of fuel cells
- 15:30 - 15:50 STAGE-SOFC: Innovative SOFC system layout for stationary power and CHP applications
- 15:50 - 16:10 DEMOSOFC: Demonstration of large SOFC system fed with biogas from WWTP
- 16:10 - 16:30 POWER-UP: Demonstration of 500 kWe alkaline fuel cell system with heat capture
- 16:30 - 16:45 Closing remarks by **Biebuyck Bart**, Executive Director FCH JU