

EERA Joint Programmes FCH and Energy Storage
with support from the Horizon 2020 project BALANCE

WORKSHOP

“PUTTING THE HYDROGEN INTO HYBRIDIZATION: HOW FUEL CELLS AND ELECTROLYSERS CAN SUPPORT ENERGY STORAGE”

5th november 2019

ENEA Headquarters –Conference Hall - Via Giulio Romano n. 41, Rome

Joint workshop of the EERA JPs FCH and Energy Storage, targeting the higher level of the scientific community and strategy makers for Research & Innovation in Europe. It aims to bring together views on the utilization of hydrogen in hybridization with various technologies as means for energy storage. Technological and infrastructural updates will be merged with debates on sustainability aspects and the pathways for implementation in the coming EU Framework Programme, Horizon Europe, and beyond.

Agenda

Setting the stage

- 11:00** *Registration and welcome coffee*
- 11:20** **Welcome, Scope of the workshop and expected outcome** - S. McPhail (JP FCH)
- 11:30** **Presentation of JP FCH: research priorities and roadmaps** - JP FCH coord.
- 11:45** **Presentation of JP ES: research priorities and roadmaps** - JP ES coord
- 12:00** **Mission Innovation Challenge 8: Upscaling hydrogen** - J. Scholz (MI-IC8)
- 12:15** **Mission Innovation Challenge 6: Clean Energy Materials in energy storage** - M. Kozdras (MI-IC6)
- 12:30** **Towards an Autonomous Material Development Platform** - H. Ihssen (HHG)
- 12:45** **Sustainability implications for different energy storage technologies** - M. Baumann (JP ES)
- 13:00** **Demonstrating the flexibility of hydrogen** - M. Testi (FBK)
- 13:15** *Lunch*

Hybridization

- 14:40 Energy storage in the gas grid** - G. Botta (KIWA)
- 15:00 Energy storage and mobility fuels** - A. Goede (JP ES)
- 15:20 Energy storage and geology** - P. Lopion (FZJ, JP FCH)
- 15:40 Energy storage and sector coupling** - L. Wang (BALANCE)
- 16:00 Coffee break**

Socio-Environmental sustainability

- 16:40 LCA of FCH: latest developments** - A. Agostini (IEC)
- 17:00 A Circular Economy approach for battery materials** -P.L. Porta (ENEA)
- 17:20 Round-table: how to compare sustainability degrees in energy storage** – All

Financial sustainability

- 17:50 Prospects for Energy Storage and Hydrogen in Horizon Europe** - C. Pocaterra (APRE)
- 18:00 Round-table discussion:**
- **Key focus areas for JP FCH and JP ES**
 - **Opportunities for next joint actions: HEU, EERA, MI frameworks**
 - **Wrap-up and presentation at the JP ES Workshop 7-8 November**
- 18:30 Close of Workshop**