

Energy storage, Fuel Cells & Hydrogen. Bringing research and industry closer: accelerating innovation and uptake of new technologies.

Date: Tuesday, 10 May 2022

Time: 09:00 - 18:00 CEST

Location: Palazzo della Salute, Via San Francesco 90, 35131 Padova, Italy

EERA through the strategic [SUPEERA project](#) supports the implementation of the SET Plan, integrating it at the same time into the broader context of the Clean Energy Transition. The project foresees several activities to facilitate the innovation and uptake by the industry. One of the adopted approaches has been an [analysis of the energy measures in the 27 National Energy and Climate Plans \(NECPs\)](#) aiming at reaching Member States' and EU's 2030 climate targets. This analysis resulted eventually in the identification of six common pathways (Wind energy, Energy System integration, Bioenergy, Energy storage, Hydrogen and Solar Power).

These common pathways will provide the basis for the recommendations on R&I priorities in support to the Clean Energy Transition goals across Europe and will serve as an input to improve cooperation between research and industry. In addition to long-term strategies and policies, the European energy research community is requested to react swiftly to unprecedented geopolitical settings with energetic priorities which are laid down in the [REPowerEU communication](#).

Following a series of introductory [webinars](#), this workshop will take place in **Padova, Italy**, and it will discuss research-industry cooperation practices and opportunities to accelerate innovation in the **Energy Storage** and **Fuel Cells and Hydrogen** technologies/sectors.

The purpose is to bring forward successful Italian implementation examples of the two selected pathways, and to explore their replication potential towards other regions/countries with similar priorities which would eventually trigger investments in low-carbon technologies. Part of the discussion will be dedicated to the role of the R&I in the EU strategies to respond to the current energy crisis.



Draft Agenda

09:00	<p>Welcome and greetings <i>Alberto Bertucco, Head of the Interdepartmental Center Levi Cases</i></p>
09:10	<p>Keynote speech: Electrochemical Energy Storage and Conversion Systems - Background, Perspectives, Impact and Actions in the Venetian Region <i>Vito Di Noto, Department of Industrial Engineering of the University of Padova</i></p>
09:25	<p>Workshop background: the SUPEERA project <i>Ivan Matejak, SUPEERA coordinator, EERA</i></p> <p>Presentation of two pathways: Energy Storage, Fuel Cells & Hydrogen <i>Maria Oksa, Senior Scientist - Project Manager, VTT</i></p>
09:45	<p>Collaboration between research and industry: best practices, barriers and replicability potential</p>
	<p>The SET Plan as a tool for EU-wide collaboration on R&I priorities of low-carbon technologies <i>Ivan Matejak, SUPEERA coordinator, EERA</i></p> <p>EERA Joint Programme Energy Storage <i>Myriam Gil Bardaji, JP Energy Storage Manager, KIT</i></p> <p>EERA Joint Programme Fuel Cells & Hydrogen <i>Stephen Mc Phail, JP Fuel Cells & Hydrogen coordinator</i></p> <p>R&I and Open Innovation: Eni's Vision and Approach to Energy Storage <i>Andrea Bernardi, Head of Solar Storage & Bio-Energy Technologies, ENI</i></p> <p>How to foster green hydrogen competitiveness with an Open Innovation Approach: the NextHy Initiative <i>Paolo Prevedello, Hydrogen Innovation Project Engineer, ENEL Green Power</i></p>
11:00	<p>Panel discussion and Q&A <i>Moderator: Ivan Matejak, SUPEERA coordinator, EERA</i></p>
11:30	<p>Coffee break</p>
11:45	<p>Cross-sectorial dialogue for system solutions towards the CET objectives</p>
	<p>Systemic and cross-sectorial issues pertaining to the Clean Energy Transition <i>Spyridon Pantelis, Project Manager, EERA</i></p> <p>The infrastructure role as enabler of hydrogen value chain <i>Dina Lanzi, Head of Technical Business Unit Hydrogen, SNAM</i></p> <p>Creating an energy storage ecosystem for innovation: The StoRIES project <i>Stefano Passerini, StoRIES project coordinator, KIT</i></p> <p>Batteries Europe - shaping the EU battery ecosystem to effectively support the Industrial uptake <i>Alessandro Romanello, ETIP Batteries coordinator, InnoEnergy</i></p> <p>Good practice of R&I funding programmes: SIMBA project <i>Maidar Zarrabeitia Ipina, Postdoctoral Researcher, KIT</i></p>

13:00	Panel discussion and Q&A <i>Moderator: Spyridon Pantelis, Project Manager, EERA</i>
13:30	Lunch break
14:30	Towards EU's strategic autonomy: The crucial role of energy storage and hydrogen
	Chemical energy storage <i>Linda Barelli, Associate Professor, University of Perugia</i> Biomass: the natural link between energy storage and hydrogen <i>Vincenzo Mulone, University of Rome Tor Vergata</i> Pumped-hydro energy storage <i>Giovanna Cavazzini, Interdepartmental Center Levi Cases, University of Padova</i> Underground storage, liquid organic hydrogen carriers, compression <i>Klaus Taube, Representing Director, Inst. of Hydrogen Technology, Hereon</i> Superconducting Magnetic energy storage <i>Xavier Granados, Senior Scientist, CSIC-ICMAB</i> Monitoring catalyst degradation using electron energy loss spectroscopy and microscopy <i>Paulo Ferreira, Group Leader</i> <i>Atomic Structure-Composition of Materials, INL</i>
16:00	Coffee break
16:15	Horizon Europe calls scheduled for 2023-24 in Cluster 5 and Cluster 4 relevant for JP FCH/ES with the aim to defining potential participants <i>Madalina Rabung, Scientist, Project Manager, Fraunhofer IZFP</i>
16:45	Panel discussion and Q&A Moderators: <i>Stefano Passerini, StoRIES project coordinator, KIT</i> <i>Stephen Mc Phail, JP Fuel Cells & Hydrogen coordinator</i>
17:45	Wrap-up and next steps

