Padova, 9 maggio 2022

INNOVAZIONE NEI SETTORI DELL'ACCUMULO DI ENERGIA, DELLE CELLE A COMBUSTIBILE E DELL'IDROGENO

DOMANI INCONTRO AL PALAZZO DELLA SALUTE


Il tema dell'incontro verterà sulla cooperazione tra ricerca e industria come opportunità per accelerare l'innovazione nei settori dell'accumulo di energia, delle celle a combustibile e dell'idrogeno. Verranno presentati dei casi di successo italiani e sarà approfondito il loro potenziale di replicazione in altri paesi europei. Parte della discussione sarà dedicata al ruolo della R&I nelle strategie dell'UE per rispondere all'attuale crisi energetica.

In allegato il programma dell'evento che si svolgerà il 10 maggio 2022 al Palazzo della Salute, via San Francesco 90 a Padova.

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

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Coordinator</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Welcome and greetings</td>
<td>Alberto Bertucco, Head of the Interdepartmental Center Levi Cases</td>
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<td>09:05</td>
<td>Background: SUPEERA project. Presentation of two pathways: Energy Storage &amp; Fuel Cells &amp; Hydrogen</td>
<td>Maria Oksa, Senior Scientist - Project Manager, VTT</td>
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<td>09:20</td>
<td>Collaboration between research and industry: best practices, barriers and replicability potential</td>
<td>Ivan Matejak, SUPEERA coordinator, EERA</td>
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<td>Myriam Gil Bardaji, JP Energy Storage Manager, KIT</td>
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<td>Stephen Mc Phail, JP FCH coordinator,</td>
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<td>Andrea Bernardi, Head of Solar Storage &amp; Bio-Energy Technologies, ENI</td>
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<td>Paolo Prevedello, Hydrogen Innovation Project Engineer, ENEL Green Power</td>
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<td>10:35</td>
<td>Panel discussion and Q&amp;A</td>
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<td>10:55</td>
<td>Initiatives, funding and collaboration opportunities on Energy Storage and FCH</td>
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<td>Madalina Rabung, Scientist, Project Manager, Fraunhofer IZFP</td>
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<td>Alessandro Romanello, ETIP Batteries coordinator, InnoEnergy</td>
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<td>Maiden Zarrabéitia Ipina, Postdoctoral Researcher, KIT</td>
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<td>11:45</td>
<td>Panel discussion and Q&amp;A</td>
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<td>12:05</td>
<td>Coffee break</td>
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<td>12:20</td>
<td>Cross-sectorial dialogue for system solutions towards the CET objectives</td>
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<td>Spyridon Pantelis, Project Manager, EERA</td>
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### Session Details:

**75’ – 5 ppt of 15’**
- The SET Plan as a tool for EU-wide collaboration on R&I priorities of low-carbon technologies
  - JP Energy Storage
  - JP Fuel Cells and Hydrogen
  - Best practice/ barriers and R&I needs from relevant Italian stakeholders (industry, SMEs, researchers, etc.)
  - 5 MW wind park and a hydrogen plant in Sicily

**50’ - 2 ppt of 15’, 1 ppt of 20**
- Horizon Europe calls (title and a short description) scheduled for 2023-24 in Cluster 5 and Cluster 4 relevant for JP FCH/ES with the aim to defining potential participants
  - ETIP Batteries
  - SIMBA project

**35’ – 2 ppt of 15’, 1**
- Systemic and cross-sectorial issues pertaining to the Clean Energy Transition
### EERA Joint Programme Energy Storage

**45’ – 3 ppt of 15’**

- Chemical energy storage
- Hydropower
- Superconducting Magnetic energy storage

**14:30**

- Linda Barelli, Associate Professor, University of Perugia
- Prof. Giovanna Cavazzini, Turbomachinery & Energy System research group, University of Padova
- Xavier Granados, Senior Scientist, CSIC-ICMAB

**15:15** Panel discussion and Q&A

**15:35** Coffee break

**15:50** EERA Joint Programme Fuel Cells and Hydrogen

**45’ – 3 ppt of 15’**

- Biomass: the natural link between energy storage and hydrogen
- Underground storage, liquid organic hydrogen carriers, compression
- Monitoring catalyst degradation using electron energy loss spectroscopy and microscopy

**16:35** Panel discussion and Q&A

**16:55** Wrap-up and next steps