FONDAZIONE BRUNO KESSLER
MAGAZINE

HyCARE PROJECT: an innovative approach for renewable energy storage, now reality.

April 26, 2023

The exhibition event of this European Project took place in Paris, on April 21st, 2023, with the presentation of the project activities and the demonstration of the prototype.

Last **April 21st**, 2023, th**e** final event of HyCARE Project took place in **Paris** with an exhibition entitled **“The HyCARE system. Opportunities and challenges of the energy storage sector”.** The show hosted by ENGIE Lab Crigen in cooperation with CNRS aimed to show the main results of activities carried out during the HyCARE Project, supported by the Clean Hydrogen Partnership, and coordinated by the University of Turin.

The day started with the presentation of the project activities, outlining the process for testing and tailoring the **hydrogen carrier** as well as those related to the **production and processing**. **Heat management** was also a fundamental topic, together with the description of the design and building of the tank, the system integration, its commissioning, and validation. Finally, the techno-economic analysis was explained together with a short overview of exploitation and dissemination activities implemented.

Following the Partners’ presentations, HyCARE hosted other three EU projects COSMHYC, SHERLOHCK and HyPSTER on hydrogen storage topic that presented their activities and shared their own experience.

Finally a Stakeholder Roundtable was moderated by HyCARE Coordinator, Marcello Baricco, with Patricia De Rango – Member of Task 40 of Hydrogen Technology Collaboration Programme (Hydrogen TCP) within the International Energy Agency, Olivier Joubert – Director of the French Federation of Hydrogen Energy FRH2, Abdelilah Slaoui – Director of the CNRS Task Force on Energy and co-director of the PEPRH2, Pierre Roy, Director of European Strategic Collaborative Program, Enterprise relationships Directorate at CNRS. The discussion focused on the big challenges of hydrogen storage in the future.

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Reference materials:

HyCARE Project – https://hycare-project.eu/
University of Turin – https://en.unito.it/
ENGIE Lab CRIGEN – https://www.engie.com/en/innovation-transition-energetique/centres-de-recherche/crigen
The French National Center for Scientific Research – https://www.cnrs.fr/en
Helmholtz-Zentrum hereon GmbH – https://www.hereon.de/index.php.en
IFE – Institute for Energy Technology – https://ife.no/en/front-page/

GKN Sinter Metals Engineering GMBH – https://www.gknpm.com/
Tecnodelta Impianti Srl – http://www.tecnodeltaimpianti.com/main.php?l=en
Stühff Maschinen- und Anlagenbau GmbH – https://www.stuehff-gmbh.de/eng/
International Energy Agency – https://www.ieahydrogen.org/
Task 40 of Hydrogen Technology Collaboration Programme – https://www.ieahydrogen.org/
CNRS Task Force on Energy PEPRH2 – https://www.celluleenergie.cnrs.fr/pepr/
COSMHYC project – https://cosmhyc.eu/ | SHERLOHCK project – https://sherlohck.eu/ | HyPSTER project – https://hypster-project.eu/
The European Institute for Energy Research – https://www.eifer.kit.edu/
CEA Grenoble – https://www.cea.fr/Pages/le-cea/les-centres-cea/grenoble.aspx
Storengy – https://www.storengy.com/en

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https://magazine.fbk.eu/en/news/hycare-project-an-innovative-approach-for-renewable-energy-storage-now-reality/

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- #hycare
- #hydrogen
- #sustainableenergy

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