

AGENDA



FINAL CLUSTERING WORKSHOP

From Novel Materials to Solar Hydrogen Futures: Scaling Up Circular Innovation in Europe



DATE

24 FEBRUARY, 2026



LOCATION

**PRIMUS HOTEL,
VALENCIA, SPAIN
& ONLINE**



FINAL CLUSTERING WORKSHOP

From Novel Materials to Solar Hydrogen Futures: Scaling Up Circular Innovation in Europe

OBJECTIVE

OHPERA's Final Clustering Workshop will focus on exploring the **market potential of photoelectrochemical (PEC) technologies for solar-driven hydrogen production** and sustainable chemical manufacturing.

This full-day event aims to present the latest breakthroughs in the field, connect research projects with market-oriented perspectives, and facilitate dialogue between industry leaders, policymakers, and academia to identify pathways for upscaling PEC devices.

PARTICIPANTS

The workshop targets the **research community, industrial stakeholders from the renewable energy and chemical sectors, regional and EU policy representatives, as well as junior scientists and entrepreneurs** engaged in the fields of hydrogen, solar fuels, and perovskite materials.

There are up to **70 spots** on-site, with the possibility to attend online.

Agenda

Opening session

09:15 – 9:45

- Welcome from LOMARTOV & Universitat Jaume I (Host & Coordinator)
- Keynote from Johannes BÜNZ European Innovation Council (EIC-EISMEA) – *More than just one project: the EIC Novel Routes to Green Hydrogen portfolio*

Session 1 – Solar-Driven Hydrogen: From fundamentals to prototype

Moderator: Isaac Herraiz

OHPERA consortium presenting its results: proof-of-concept PEC tandem cell

09:45 – 11:30

- OHPERA project concept – Sixto Gimenez, UJI
- Modelling tools - Hind Benzidi, ICIQ
- Photoabsorbers - Marta Vallés, UJI
- Electrocatalysts – Ran Shimoni, BGU
- Photoelectrodes - Marta Vallés, UJI
- Prototype & testing - Andrés F. Pérez, HZB
- Sustainability assessment - Alberto González, LOMARTOV

Q&A – on sli.do

11:30– 11:45

Coffee break*

Session 2 – Renewable Hydrogen and potential symbiosis: Latest Research Highlights

Moderator: Alberto González

Scientific frontiers from other sister projects and spin-off companies

11:45 – 12:30

- FreeHydroCells: *Innovative PEC Systems with Multijunction Tandem Cells for Continuous Green Hydrogen Production* - Dr Ailbe Ó Manacháin, University College Cork, Ireland
- FlowPhotoChem: *Design and Operation of an Integrated System of Reactors for Solar Energy Conversion into Fuels and Chemicals* – David Brust, German Aerospace Center (DLR) Institute of Future Fuels,
- *Accelerating alkaline water electrolysis technology through R&D and validation. Fundación Hidrógeno Aragón experience.* Guillermo Figueruelo, Hydrogen Europe Research
- PECATHS: (Photo)-electrocatalytic routes for long-term sustainable hydrogen storage - José A. Mata, Institute of Advanced Materials (INAM), Universitat Jaume I

Q&A – on sli.do

Session 3 – From Lab to Market: Exploitation & Scale-Up Paths

Moderator: Marco Bianchini

Market-oriented inspiring pitches focused on needs, challenges, achievements and gaps.

12:30 – 13:30

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- *From Pilot to Industrial Deployment: The GreenRuptive Innovation Hub Model for Renewable Energy and Decarbonization*, Blanca Métrida, Greenruptive Innovation Hub, [Instituto De Tecnología Química UPV-CSIC](#)
- *Electrodes and Catalysts for Alkaline-based Water Electrolysis: from atoms to large sheets*, Vicente Vert, [MATTECO](#)
- *Tools for early-stage deeptech business ideation and innovation*, Istvan Burus, [eChemicles](#)

13:00– 14:00

Networking lunch*

Session 4 – Industry Showcase: 4 Companies at the Forefront

Moderator: Evelina Castellana

Pitches from industries advancing solar hydrogen, PEC, or electrolyser scaling.

14:30 – 15:30

- [eChemicles](#), Csaba JANÁKY
- [HIVE Hydrogen](#), Julia Machado
- [ENAGAS](#), José A. Lana

15:30– 15:45

Coffee break*

Panel – Unlocking market adoption: A value chain dialogue

Roundtable

Moderator: Mihaela Mirea

An open dialogue targeting the hot topics: cost reduction, CRM-free strategies and sustainability, industrialization, infrastructure, waste management, gaps for the massification of hydrogen as fuel /energy vector and for the green production of hydrogen.

15:45 – 17:00

- Guillermo Figueruelo, [Hydrogen Europe Research](#)
- Raul Gonzalez de la Fuente, [Spanish Association for Standardisation](#)
- Vicente Vert, [MATTECO](#)
- José A. Lana, [ENAGAS](#)
- Csaba JANÁKY, [eChemicles](#)

17:00 – 17:30

Closing Session

- Presentation of the graphical representation of the day by **Fanny Didou**

17:30– 18:30

Networking cocktail*

MORE INFORMATION
www.ohpera.eu