

SEMANA DEL HIDRÓGENO ARAGÓN

16–20 November 2026.- Mobility City Zaragoza

SH₂A

WHERE ENERGY CONNECTS

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ORGANIZED BY





José María
Santa Bárbara

Managing Director
Aragon Hydrogen
Foundation

16 November 2026

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SEMANA DEL HIDRÓGENO ARAGÓN

Expanding H₂ Ecosystem: Market Intelligence, Projects and Transformation from Aragon

We open the week with the new Aragón Hydrogen Master Plan 2026-2030, a roadmap that redefines the region's energy future. We will explore the current state of the industry, the projects already underway, progress in decarbonisation, and the market intelligence that guides strategic decision-making. A session designed to understand how this new framework is driving an ecosystem that is growing, transforming, and creating unprecedented opportunities.



Vanesa
Gil
Head of I+D
ARAID Researcher at
Aragon Hydrogen
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Eduardo
Bernad
R&D Technician
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16 November 2026

Synthetic Fuels as a Solution for Hard-to-Decarbonise Sectors: How Do We Move Towards the Future?

Europe is moving towards a climate-neutral economy, and along this path, hydrogen derivatives, such as synthetic fuels for aviation and maritime transport and renewable chemicals, have become a key solution for decarbonising sectors where electrification alone is not sufficient. This panel discussion will explore how hydrogen and CO₂ can be transformed into sustainable fuels capable of powering aviation, maritime transport, and the chemical industry.

TOPICS

- The production **and application of synthetic fuels for aviation**, maritime transport, and industry.
- The role of **Sustainable Aviation Fuels (SAF)** as a key tool for decarbonising air transport.
- The potential of e-fuels for sectors that are difficult to electrify, such as maritime transport and certain industrial applications.
- The **importance of validating these technologies and fuels** through testing under real operating conditions.



Lidia
Martínez

R&D Coordinator
Aragon Hydrogen
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16 November 2026



Materials in the H₂ Era Science, Limits and Validation for Safe Deployment

New materials are playing an increasingly important role in pipelines, storage tanks, gaskets, seals and connectors thanks to their corrosion resistance, lightweight properties and lower cost. However, their long-term behavior when exposed to hydrogen, particularly under high-pressure conditions, thermal cycling, and repeated loading, remains a critical area of research.

TOPICS

- The future of hydrogen pipeline transport in a decarbonised energy system.
- The realistic role of blending in the energy transition.
- The viability of new materials for hydrogen networks.
- The need for specific standards, accelerated testing, and service life prediction models.



Pedro
Casero

Head of Innovation
Aragon Hydrogen
Foundation

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Validation for Deployment: Real-World Engineering for Safe and Operational Hydrogen

In Aragon, hydrogen is developed through practical, hands-on experience: every technology passes through our facilities before reaching the market. This session will showcase how the Aragon Hydrogen Foundation has become a key technical partner for companies that need to test, verify, and demonstrate critical technologies across the hydrogen value chain. At our facilities, we detect leaks, validate storage tanks, and test refueling cooling systems, among many other assessments, providing projects with the technical assurance they need to move forward with confidence.

TOPICS

- **H₂ Storage Technologies:** comparison and current state of maturity.
- **Refueling Cooling Systems:** the key to fast and reliable hydrogen refueling stations.



Pedro

Casero

Head of Innovation

Aragon Hydrogen
Foundation

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Hydrogen Electrolysis in Spain: Two Technologies, Two Pathways, One Shared Goal

Renewable hydrogen production is advancing rapidly, but market leadership will be determined by technologies capable of demonstrating real-world performance aligned with supply and demand requirements. Choosing the right technology requires data that goes beyond manufacturers' technical specifications. In this session, we will analyse, from a technical and data-driven perspective, how two electrolysis technologies, alkaline and PEM, perform when they leave the laboratory and face real operating conditions.

TOPICS

- PEM Technology: Performance and Flexibility
- Alkaline Electrolysis: Maturity and Scalability
- Technical Discussion: Efficiency, Costs, and Application in Real-World Projects



Gianluca
Greco

Head of Consulting
Aragon Hydrogen
Foundation

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A Water as a Key Factor in Achieving Truly Sustainable Hydrogen

This panel discussion will explore the challenges, methodologies and solutions that make it possible to assess water availability, optimize water use, and ensure that hydrogen projects are developed in a sustainable, transparent manner aligned with the needs of the local territory.

TOPICS

- How to assess actual water availability in water-stressed regions.
- Impacts and water consumption associated with electrolysis.
- Integrated management models that balance industrial and environmental water uses. Water reuse, reclamation, and alternative sources to minimize pressure on water resources.
- Territorial analysis tools that enable rigorous, forward-looking project planning.



Gianluca
Greco

Head of Consulting
Aragon Hydrogen
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The Hydrogen Skills Gap: Challenges and Solution

This panel discussion will explore the learning pathways that professionals can follow to upgrade their skills (upskilling) or redirect their careers (reskilling) towards this rapidly growing sector.

TOPICS

- Digital simulators for risk-free learning
- Mobile labs and on-site training
- Scenario-based learning for real-world situations
- Modular learning paths that allow learners to progress at their own pace

16 November 2026



B2B Networking Sessions with Our Experts

B2B sessions with our experts: Our Business Development team meets with you for a quick consultation designed to identify opportunities, address strategic questions, and speed up your decision-making process.

The Industry in VR

H₂ Lab is a virtual space where you can learn by doing, risk-free. We combine digital twins and VR technology to take you to facilities that very few people have seen in person. Explore, understand, and experience the hydrogen revolution as if you were actually there. No hard hats, no special permits—just you and the technology of the future.

Hydrogen and Data Centers: A Strategic Partnership for the Future?

We bring together technology leaders and experts from the hydrogen ecosystem on a single stage.

17 November 2026



S3 Partnership on Industrial Modernisation Hydrogen Valleys

We bring together European regions committed to accelerating the deployment of integrated hydrogen ecosystems by connecting production, distribution, and end-use applications through a territorial approach. This community fosters interregional collaboration, knowledge exchange, and the development of joint projects that strengthen the hydrogen value chain across Europe.

Topics

- Presentation of flagship projects across Europe
- Transforming regional capabilities into real industrial opportunities
- Supporting territories in the development of robust, scalable Hydrogen Valleys aligned with the European energy transition

Led by

S3 Platform Regions Coordinators

20 November 2026

6th Aragon Hydrogen Foundation Awards

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SEMANA DEL HIDRÓGENO ARAGÓN

**Best Doctoral
Thesis Award
Ceremony**

Fundación Redexis

**Best Master's
Thesis Award
Ceremony**

IDOM

**Best Bachelor's
Thesis Award
Ceremony**

ERCROS

Join the Aragon Hydrogen Foundation at this leading-edge event and explore groundbreaking advances in hydrogen technologies developed in Aragon, with an impact extending beyond our region to Spain and across Europe.

This event offers a unique opportunity to:

- Connect with national and international leaders and experts in the hydrogen sector.
- Take part in innovative workshops and cutting-edge conference sessions.
- Participate in B2B sessions.
- Discover the latest technologies and projects shaping the future of hydrogen.
- Become part of a community of pioneers in sustainable energy and technology.

**We are developing new initiatives
to enrich the event experience.
Stay tuned for more updates
coming soon.**