



ENDURE project shields critical components of European electrolysis

The General Assembly gathers I+D leaders at the Aragon Hydrogen Foundation to coordinate advanced cell development and life cycle sustainability.

HUESCA.— The deployment of the **green hydrogen** economy in Europe demands not only ambition but millimetric technical precision. With this purpose, partners of the European consortium **ENDURE** gathered at the **Aragon Hydrogen Foundation** headquarters to hold their **General Assembly**, a key face-to-face meeting that served to synchronize the gears of research aimed at maximizing the durability and efficiency of current **electrolysis** systems.

During the working sessions, the partners engaged in a deeply enriching technical exchange. The day structured the debate around the core **Work Packages** of the project, spanning from laboratory-scale materials science to market viability and the end-of-life of components.

Technical Innovation and Sustainability at the Heart of the Debate

The first half of the meeting focused on the fundamentals of the cell ecosystem. The **Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM)** led discussions on **electrode development and scale-up** (WP2), a critical area for reducing dependence on critical raw materials. Meanwhile, the firm **Stargate** coordinated the analysis of cell and stack evolution (WP3), setting the operational foundations that will later be tested and validated by the **Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW)** under the framework of WP4.

Beyond purely technical milestones, the summit gave priority space to comprehensive project sustainability through **Life Cycle Cost (LCC)** and **Life Cycle Assessment (LCA)** analyses. This approach ensures that **ENDURE** technologies are not only economically competitive but also fully aligned with the total decarbonization goals of the European Union.

European Synergies and Future Commitment

The day also served to map out the lines for dissemination, exploitation, and governance (WP5 and WP6), highlighting the preparation of the upcoming joint sister projects event in Brussels and the routes to transfer these scientific developments to the real industrial fabric once the initiative concludes. Attendees were also able to see firsthand the operational capabilities of the **Aragon Hydrogen Foundation** during a guided tour of its **laboratories and pilot plants**.

The **General Assembly** concluded with a renewed firm commitment from the entire consortium to continue with the **research and development** phases. **ENDURE** proves, in a cooperative debate environment, that the future of **clean hydrogen** is built step by step, sharing data and unifying the talent of leading research centers and companies across the continent.

Funded by the Clean Hydrogen Partnership and its members

