

Hy₂ Market

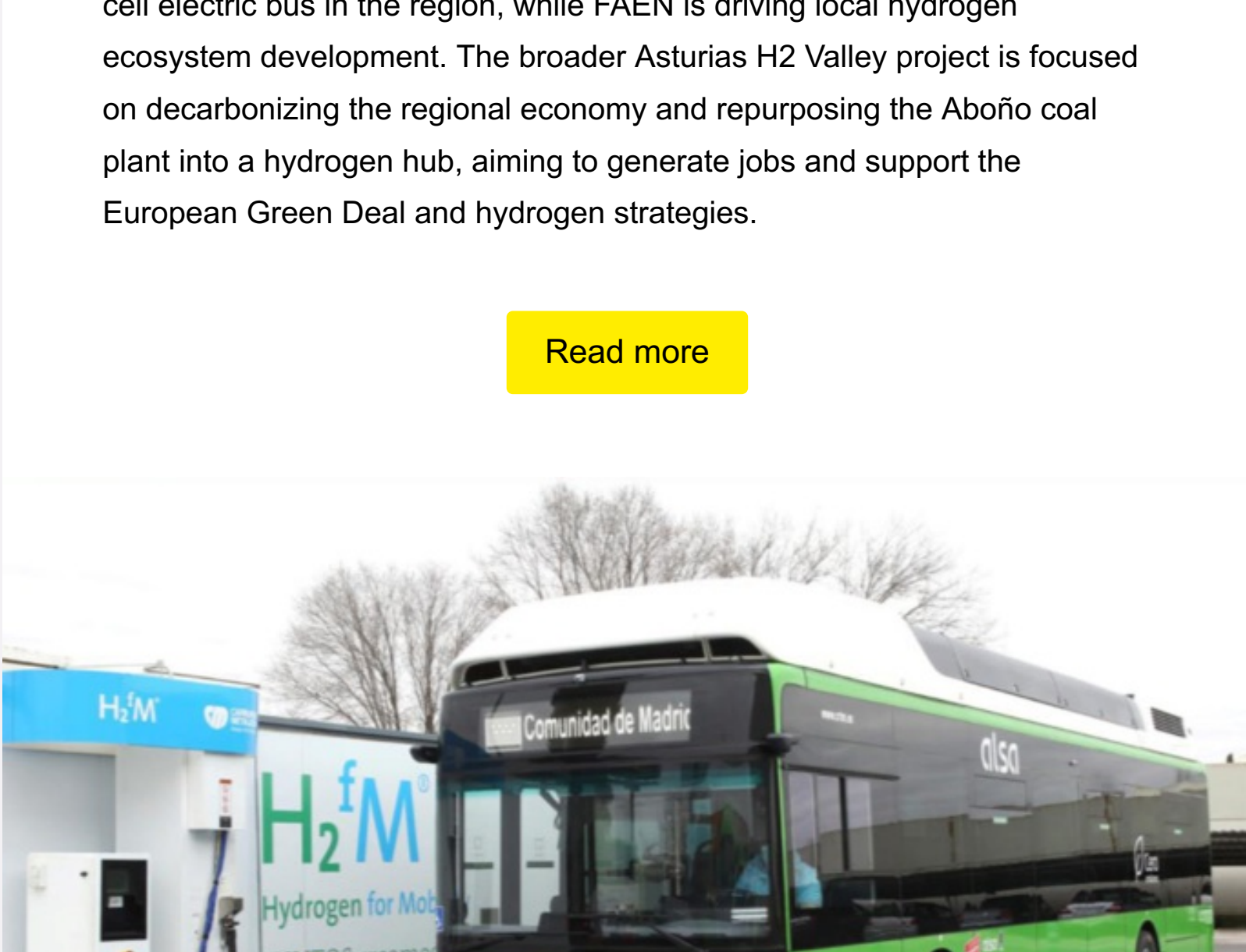


Creating the Hydrogen Market for Europe

Welcome to the third Hy2Market Newsletter! In this edition, we're pleased to share important updates and achievements from the Hy2Market project. We highlight Asturias, Spain, one of the participating regions in the Hy2Market Consortium, where significant advancements in hydrogen technology are taking place, including a new hydrogen bus pilot led by ALSA. Our focus extends to the development of green hydrogen production and management systems, showcasing efforts to optimize hydrogen technologies across various industrial environments. We also spotlight the new waste-to-hydrogen facility in Aragón, Spain, a flagship project by Raven SR that will transform organic waste into sustainable hydrogen, setting a new standard in green energy.

Additionally, our latest report explores the potential of synthetic fuels in aviation and shipping, offering insights into successful case studies and future business models. Lastly, we look forward to the upcoming Hy2Market International Knowledge Exchange Workshop, where industry experts will discuss hydrogen's role in industrial applications and future collaboration opportunities. Registration details for the online event on Thursday, 26 September from 9:00-11:00 (CEST) are included below. Stay connected with us on [LinkedIn](#) for the latest updates and developments!

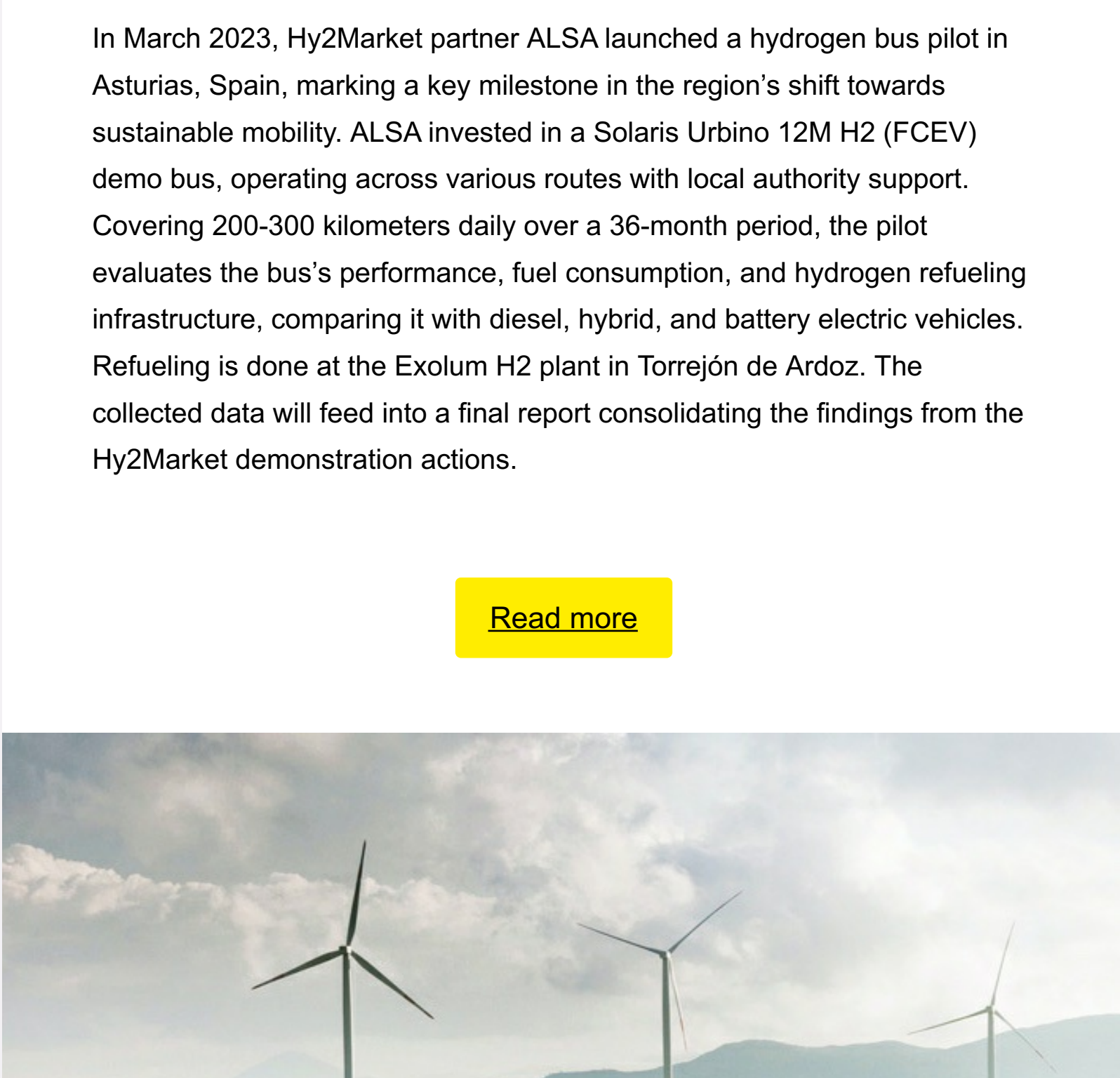
Latest News



Hy2Market Regional Highlight: Asturias, Spain

Asturias is emerging as a leader in hydrogen innovation as part of the Hy2Market project. Partners such as EDP, Tactictic, and Signalsoftware are spearheading advancements in electrolysis technology to reduce the Levelized Cost of Hydrogen (LCOH) and improve efficiency through advanced process control systems and digital twin simulations. EDP, TRESCA, and HIDRITEC are working on scaling electrolysis capacity to 500 MW, with an initial 150 MW phase set for 2026. ALSA is testing a fuel cell electric bus in the region, while FAEN is driving local hydrogen ecosystem development. The broader Asturias H2 Valley project is focused on decarbonizing the regional economy and repurposing the Aboño coal plant into a hydrogen hub, aiming to generate jobs and support the European Green Deal and hydrogen strategies.

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Hydrogen Bus Pilot Launched in Asturias, Spain

In March 2023, Hy2Market partner ALSA launched a hydrogen bus pilot in Asturias, Spain, marking a key milestone in the region's shift towards sustainable mobility. ALSA invested in a Solaris Urbino 12M H2 (FCEV) demo bus, operating across various routes with local authority support. Covering 200-300 kilometers daily over a 36-month period, the pilot evaluates the bus's performance, fuel consumption, and hydrogen refueling infrastructure, comparing it with diesel, hybrid, and battery electric vehicles. Refueling is done at the Exolum H2 plant in Torrejón de Ardoz. The collected data will feed into a final report consolidating the findings from the Hy2Market demonstration actions.

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Green Hydrogen Production and Management Systems

The Hy2Market project is advancing green hydrogen production in industrial environments, focusing on increasing efficiency and reducing emissions. Through pilot projects and innovative management systems, the project aims to integrate hydrogen production into industrial processes while optimizing the link between renewable energy and hydrogen supply. The Work Package objectives are:

- Develop guidelines for hydrogen production and management tailored to industrial environments with varying conditions.
- Pilot green hydrogen production in Sicily, focusing on system integration, scalability, and site implementation.
- Implement waste-to-hydrogen technologies, converting waste gases into renewable hydrogen and synthetic fuels like jet fuel and diesel.
- Optimize hydrogen production efficiency, grid balancing, and emissions reductions through non-combustion processes.

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Waste-to-Hydrogen flagship project in Aragón, Spain

Raven SR is leading a groundbreaking waste-to-hydrogen project in Zaragoza, Aragón, recognized as a "Project and Investment of Regional Autonomous Interest." This €50 million facility will convert organic waste into hydrogen using Raven's innovative non-thermal Steam/CO₂ Reforming technology, which requires one-third of the electricity of competing methods and uses no fresh water. Backed by €2.4 million from the Hy2Market project and €1.4 million from the Spanish government's PERTE H2 initiative, the facility will produce around 1.8 million kilograms of hydrogen annually by 2026. This project not only advances Aragón's position in Europe's hydrogen economy but also provides a model for sustainable energy and waste management.

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Deliverable 4.7: Report on Use of Synthetic Fuels in the Transport Sector (Shipping and Aviation) to Demonstrate New Business Models

A new report, developed by Hy2Market partners Raven SR Iberia and Font Corporation Global Trade and Investment S.L., explores the use of synthetic fuels, or e-fuels, in aviation and shipping as a sustainable alternative to traditional fossil fuels. With aviation accounting for 10% of global transport emissions, the report highlights the potential of Sustainable Aviation Fuels (SAF) to reduce carbon emissions by up to 80%, while still being compatible with existing aircraft. The study also examines successful case studies, potential business models, and the broader use of synthetic fuels in Europe's transport sector, offering valuable insights for reducing the carbon footprint in these challenging industries.

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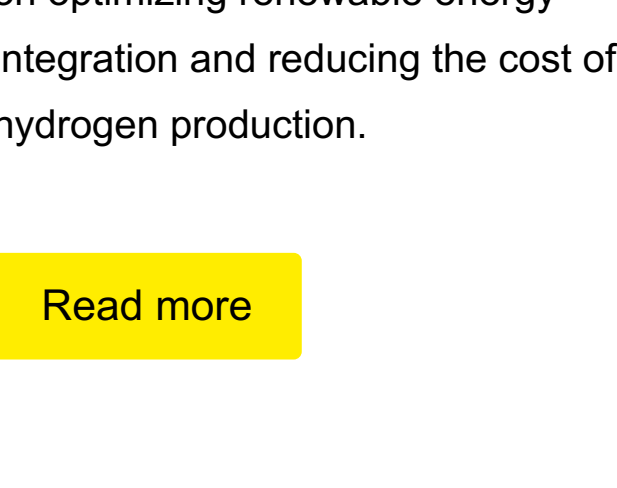


Hy2Market International Knowledge Exchange Workshop

The Hy2Market International Knowledge Exchange Workshop series facilitates vital knowledge exchange and collaboration among project partners and external stakeholders, fostering the development of a robust green hydrogen economy in Europe. The second scheduled online event in this series focuses on the industrial use of hydrogen, and will take place on Thursday, 26 September 2024 from 9:00-11:00 (CEST). Registration is free.

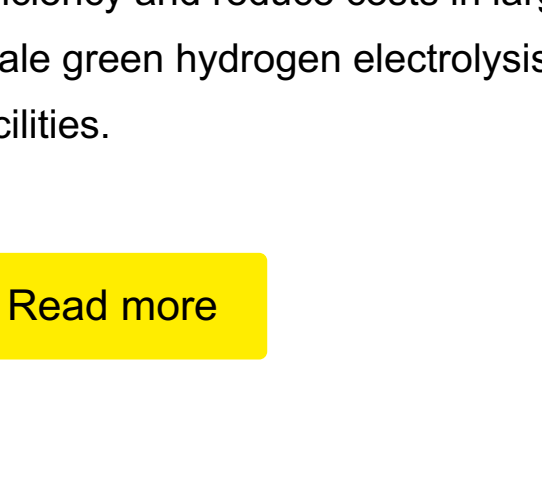
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Meet the Hy2Market Project Partners



EDP is leading efforts to scale up green hydrogen production in industrial environments, with a focus on optimizing renewable energy integration and reducing the cost of hydrogen production.

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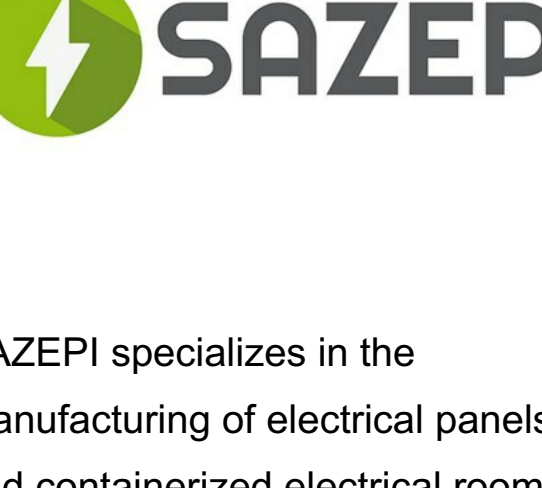
Táctica TIC is focused on developing advanced Process Control Systems (PCS) to optimize efficiency and reduce costs in large-scale green hydrogen electrolysis facilities.

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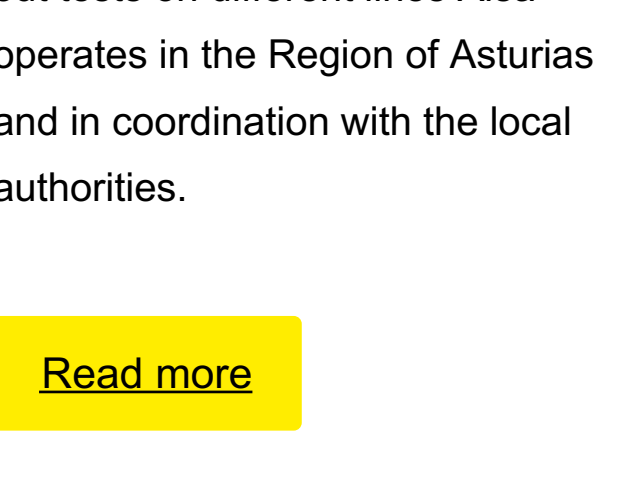
Signal Software is responsible for designing and developing the digital twin for the Hydrogen Plant that will be built in Asturias by EDP.

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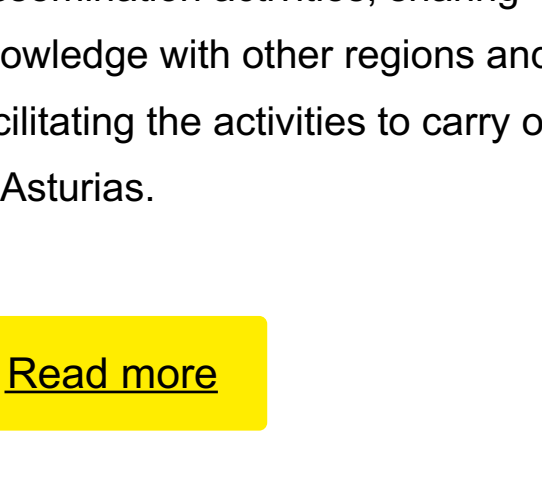
TRESCA is developing, jointly with EDP, a feasibility study for an upscale in Asturias location of up to a 500 MW.

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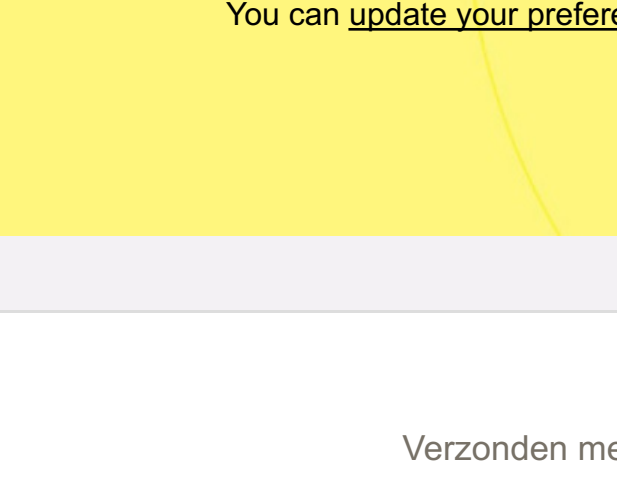
HIDRITEC is responsible for designing and manufacturing a water treatment plant to convert raw water into demineralized water, meeting the necessary specifications for the electrolyzer.

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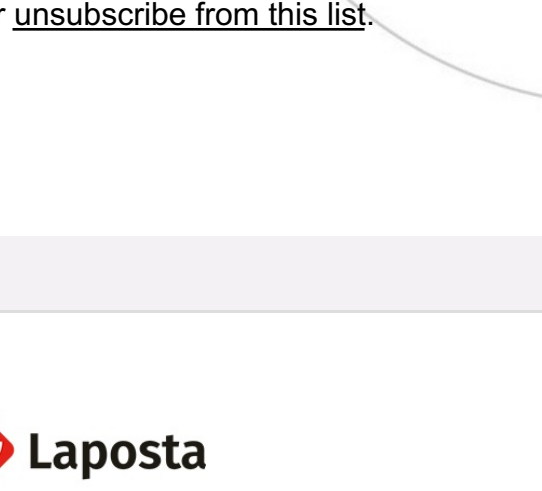
SAZEPI specializes in the manufacturing of electrical panels and containerized electrical rooms for installation on location through a "plug and play" system.

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Alsa will invest in the acquisition of a state-of-the-art FCEV Urban/Suburban demo bus to carry out tests on different lines Als operates in the Region of Asturias and in coordination with the local authorities.

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FAEN is taking part in the Hy2market project as associated partner, collaborating in the dissemination activities, sharing knowledge with other regions and facilitating the activities to carry out in Asturias.

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