

Could Spain be Europe's future leader in green hydrogen production?

With an abundance of sun and wind, Spain is positioning itself as Europe's future leader in green hydrogen production. But some energy sector experts express caution over ramping up an industry that would be reliant on huge increases in renewable power. Currently, most hydrogen is produced from fossil fuels.

Does Spain have a hydrogen roadmap?

The Spanish government announced a Hydrogen Roadmap back in 2020. Spain has already achieved its targets for green hydrogen capacity four times over - the country now has 15.5 gigawatts of capacity versus its original 2030 goal of four gigawatts. Solar panels in Los Arcos, Navarra Province, northern Spain. AP Photo/Alvaro Barrientos

How does Spain's energy system work?

Storage that is currently available in Spain comes mainly from pumped hydro and concentrated solar power (CSP) plants, to which the government wants to add large-scale batteries, behind-the-metre batteries -- minimum 400 MW in 2030 -- and make the most of the vehicle-to-grid technology, according to the document.

Does Spain need energy storage?

Spain quantified its storage needs in line with decarbonisation targets established in the 2021-2030 national energy and climate plan (NECP), which sets the share of renewables in gross final consumption of energy at 42% by the end of the decade.

What is a solar power project in Spain?

This program seeks to increase the strategic manufacturing capacity in Spain of solar panels, wind turbines, heat pumps, batteries, electrolyzers and their essential components, and will subsidize projects focused on promoting the innovative and knowledge value chain.

Can Spain lead the hydrogen industrial value chain in Europe?

For his part, the Secretary General of Industry and SMEs, Rafael Blanco, closed the event by emphasizing that "Spain has a unique opportunity and all the capacity to lead the hydrogen industrial value chain in Europe. The SHYNE project is a great example of this.

The German group estimated that the electrolyzer used 4283.55kWh of surplus solar power to produce 80.50 kg of hydrogen in one year, while the fuel cell was able to return 1009.86kWh energy by ...

4 &#183; Spanish renewables developer RIC Energy has selected a site in Cadiz, Southern California, for its first green hydrogen facility in the United States, a project ... with California water ...

The global energy storage market is growing strongly. Spain, as an important member of the European

# Spanish solar energy hydrogen storage

renewable energy market, the energy storage industry is booming, and Spanish energy storage companies are also showing ...

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The Puertollano (Spain) plant consists of a 100 MW photovoltaic solar plant, a lithium-ion battery system with a storage capacity of 20 MWh and one of the largest electrolytic hydrogen production systems in the world (20 MW). All ...

Hive Energy is in the process of securing approval to deploy 800 MW of electrolysis capacity and 1.1 GW of PV in Spain's Albacete province, as part of a broader plan to install 9 GW of wind and...

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