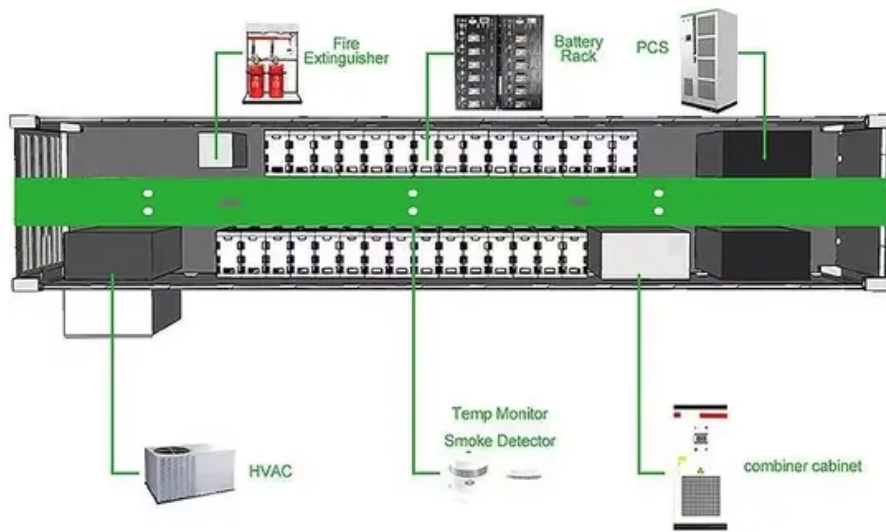


European Solar Energy Storage

Hydrogen and energy storage in Spain



Overview

The Spanish Government has allocated a considerable sum of 160 million euros to finance energy storage projects, with the aim of connecting 600 MW to grid for the year 2026. Besides, an additional investment of 100 million euros for seven large-scale green hydrogen projects.

Hydrogen and energy storage in Spain



Use of hydrogen as a seasonal energy storage system to ...

This paper proposes the deployment of electrolysers to produce hydrogen with the surplus energy, using the already existing Spanish natural gas network to store it. The resulting gas (up to 15% blend of hydrogen in natural gas) could be used subsequently in turbines to alleviate the energy deficit.

Hydrogen & Spain - EHEC

The Andalusian Green Hydrogen Alliance, with over 150 participating entities, is driving renewable hydrogen development across production, storage, and distribution.



Spain's renewable energy boom and Green Hydrogen leadership

The dozens of initiatives that are spreading throughout Spain share this vision of productive integration of green hydrogen through electrolysis from renewable sources, as well as its consumption in industrial processes and nearby locations.

Spain

The roadmap has a set of challenges, opportunities and measures for robust development of hydrogen technologies and establish a market for the entire hydrogen value chain: production, storage/transport and usage (whether as a fuel, energy vector or as raw material for industry).



[Country Dashboard for Spain](#)

The country dashboard outlines distribution and details. The analysis shows that the Spanish hydrogen strategy is export-oriented with a high focus on research and development and hydrogen production. Hydrogen usage is focused on the mobility and industry sectors.

Spain Invests in Energy Storage and Green Hydrogen

Spain's commitment to the production of green hydrogen and the development of energy storage projects demonstrates its leadership in the energy transition and its contribution to international climate objectives.



Strategic hydrogen storage for Spain

The objective of the PCI 9.24.1 "Hydrogen Storage North-1" project, located in Cantabria, is to develop an underground hydrogen storage facility to make the Spanish Hydrogen Backbone Network more exible.

Strategy for energy storage in Spain for 2050

The results of this thesis demonstrate that the storage strategy in Spain must be based on the technologies of pumped hydro, batteries and deposits of molten salts as they are technologies that have features that allow them to work with large volumes of energy at a low economic cost.



Hydrogen infrastructures in Spain

Spain is in a favourable position due to its geographical location, industrial and technological capabilities and well-established natural gas infrastructure network. This advantageous position will serve as a basis for the establishment of future green hydrogen infrastructures.

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