

What is Spain's target for green hydrogen production?

In a draft of its national energy and climate plan to 2030, which all EU members were required to produce and are currently being finalised, Spain's target of 11 gigawatts of electrolyser capacity for green hydrogen production was the highest in Europe, with only Germany coming close on 10 GW.

What documents define the Spanish Hydrogen strategy?

The main documents that define the Spanish hydrogen strategy are the Hydrogen Roadmap published in 2020, the National Integrated Energy and Climate Plan (PNIEC) 2023-2030, the Climate Change and Energy Transition Law approved in 2021, the 2050 Long-Term Decarbonisation Strategy, the Just Transition Strategy and the Energy Storage Strategy.

Should Spain separate nuclear hydrogen from renewable hydrogen?

The Spanish government has been a strong supporter of separating nuclear hydrogen, labelled as low-carbon, from renewable hydrogen. Despite pressure from Paris to change its position, Spain has made clear its preference for renewable hydrogen at both national and European level over other low-carbon alternatives.

What is Spain's hydrogen roadmap?

The Spanish government's Hydrogen Roadmap contains a total of 60 measures designed to develop Spain's capacity to become one of the main European powers in the production and exportation of renewable hydrogen. On 6 October 2020, the Spanish government approved the "Hydrogen Roadmap: a commitment to renewable hydrogen".

How has the Spanish approach to Renewable Hydrogen evolved?

**Policies and ethics** The Spanish approach to renewable hydrogen has evolved significantly driven by economic and geopolitical factors. Initially framed as a tool for domestic industrial development during the COVID-19 crisis, the 2020 Spanish Hydrogen Roadmap emphasised creating hydrogen...

Does Spain have a regulatory framework for Renewable Hydrogen?

To this end, Spain's regulatory efforts in Brussels have been directed towards establishing a regulatory framework that values renewable hydrogen by applying strict sustainability criteria against other low-carbon options with lesser environmental, energy security and socio-economic credentials.

The project has an overall investment of 12 million euros and involves companies and technology centres, as well as Spanish universities. In June 2022, Destinus and Spanish engine manufacturer ITP Aero agreed to jointly develop a hydrogen engine test facility and showcase their research in hydrogen combustion with the direct support and collaboration ...

# Spanish government energy storage and hydrogen

Currently, the storage available in Spain comes largely from pumped hydrogen and concentrated solar power (CSP) plants, that the Spanish Government intends to replace with large-scale batteries (at least 400 MW by ... development of pumped hydrogen storage: the expansion of 1 to 2 GW in 2025-2030. Currently, the European market for Batteries ...

The previous target, set by Spain's 2020 Renewable Hydrogen Roadmap, was 4GW. Also included in the new document -- which was approved by the Cabinet this morning -- is an objective for 74% of the hydrogen used by industry to be green by 2030. This is far higher than the 42% figure agreed by EU member states last year in the Renewable Energy ...

Spanish government is set to allocate 150 million euros from European Union funds to prominent hydrogen projects led by major energy corporations. This funding injection, part of the Incentive Program for Pioneering Renewable Hydrogen Projects (H2 Pioneers Program), underscores Spain's commitment to advancing green hydrogen technologies.

While low carbon hydrogen is seen as key to decarbonising Europe's economy in the future, it is more expensive than hydrogen produced from natural gas. On Monday, Shell (SHEL.L), opens new tab shelved a blue hydrogen - produced using natural gas in combination with carbon capture and storage - project in Norway due to a lack of demand.

The town's port already hosts a methane terminal and the country's largest coal power station, which is due to cease production in 2021. Sines aims to become a hub for green hydrogen exports. 60 measures in the Spanish roadmap. The Spanish government validated its renewable hydrogen roadmap at the beginning of October, 2020.

Spain's Ministry for the Ecological Transition and the Demographic Challenge (MITECO) has outlined a new subsidy program (Spanish language) to help establish valleys or clusters for renewable hydrogen production. EUR1.2 billion will be allocated to projects based on a set of criteria, including:. Prior commitment from customer(s) to purchase 60% of hydrogen ...

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