

Spain Hydrogen Roadmap: a commitment to renewable hydrogen

The Spanish Government has approved the "Hydrogen Roadmap: a commitment to renewable hydrogen". With this plan, the Government aims to guide the deployment of this sustainable energy vector as a key to achieving climate neutrality by 2050 at the latest.

This Hydrogen Roadmap aims to identify the challenges and opportunities for the full development of renewable hydrogen in Spain, providing a series of measures aimed at boosting investment action, taking advantage of the European consensus on the role that this energy vector should play in the context of green recovery. This Roadmap is therefore aligned with the 2021 Annual Sustainable Growth Strategy published by the European Commission, which identifies the future Recovery and Resilience Facility as an opportunity to create emblematic areas of action at European level, making two of these areas of action (Power up and Recharge and Refuel) an explicit mention of the development of renewable hydrogen in the European Union.

Vision 2030	
Electrolysers capacity	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">300 – 600 MW by 2024</div> <div style="border: 1px solid black; padding: 5px;">4 GW</div> </div>
Industry usage	<ul style="list-style-type: none"> Renewable hydrogen = 25% of total industrial H2 consumption (feedstock + energy source)
Transport sector	<ul style="list-style-type: none"> 150 – 200 buses with H2 fuel cells. 5,000 – 7,500 light and heavy vehicles for land freight transport. 100 – 150 public access H2 refuelling stations. 2 commercial H2-fuelled railway lines in non-electrified routes. Introduction of H2-fuelled handling machinery in 5 largest ports and airports terminals.
Energy sector	<ul style="list-style-type: none"> Commercial hydrogen projects are envisaged to be operational in 2030 for electricity storage: Power-to-Gas (P2G).
CO2 emission cut	<ul style="list-style-type: none"> 4.6 Million tonnes of CO2 eq. avoided between 2020 and 2030. Yearly: 1.1 Million tonnes of CO2 eq. avoided by 2030 = 1% of CO2 emission cut objective.
Investment Plan	<ul style="list-style-type: none"> 8,900 million € will need to be mobilised H2 production facilities + associated renewable electricity production facilities. Industrial and transport sector adaptation to H2 usage

To get additional information on MRC capabilities on renewable hydrogen please contact with:

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