

HUGE NEWSFLASH

Hydrogen Utilization & Green Energy

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Scotland plan to become Europe's lowest-cost clean hydrogen producer

The Scottish government has unveiled a £115m-plus draft action plan to reach its ambitions of building 5GW of green and blue hydrogen capacity by 2030 and 25GW by 2045, and producing and exporting the lowest-cost clean H2 in Europe.

The plan sets out 37 "key actions" that Holyrood will implement over the next five years, with the most significant being £100m of funding from the government's Emerging Energy Technologies Fund to support "hydrogen pathfinder projects" with focus on regional renewable hydrogen hubs, green H2 production and innovation..

One of the key goals in the plan is to "address current barriers to the uptake of hydrogen including high production costs". A tenth of the £100m fund will therefore go towards a Scottish Hydrogen Innovation Fund, which aims to "drive advancements in hydrogen technology to improve the cost-competitiveness of renewable hydrogen".

More info can be found here:

<https://www.rechargenews.com/energy-transition/scotland-unveils-155m-action-plan-to-become-europes-lowest-cost-clean-hydrogen-producer/2-1-1096813>

4GW offshore wind farm off Ireland to power 3.2GW green hydrogen project

Enterprize Energy has revealed plans to build a \$10bn, 4GW offshore wind farm off southwest Ireland to power a 3.2GW onshore green hydrogen project.

"We see Europe as being a net consumer of green hydrogen," Enterprize chief executive Ian Hatton told Bloomberg. "Our overall model is about developing production of green hydrogen in locations where the natural resources are going to give you the lowest cost and then bring it into the market, so Ireland, to us, is a key hub in that strategy. For the past year we've been targeting locations where we can effectively play join-the-dots with projects that will bring low-cost hydrogen to Europe and maybe to Japan."

The company is now working with engineering group Tractabel Overdick on a wind-powered offshore platform concept with built-in electrolysers to produce green hydrogen, and even machines to convert it into ammonia, for direct loading onto vessels, independently from the onshore grid.

More info can be found here:

<https://www.windpowermonthly.com/article/1734452/plans-4gw-irish-offshore-wind-farm-power-green-hydrogen-facility/>

Initiative to create a global Green Hydrogen Standard launched at COP26

GH2 chairman Malcolm Turnbull stated "In order to scale up the green hydrogen market, GH2 is today launching the development of the global Green Hydrogen Standard, which will provide certainty and transparency to investors and other stakeholders that green hydrogen is exactly that: hydrogen made with renewable electricity which conforms to the highest standards on emissions, ESG and the sustainable development goals,"

GH2 chief executive Jonas Moberg added: "We will focus exclusively on green hydrogen made from renewable energy, in contrast to disingenuous efforts to rebrand fossil-fuel based blue hydrogen as 'clean hydrogen'. GH2 will forge the global standard for green hydrogen that encompasses close to zero emissions, adherence to ESG standards, and which maximises the development potential in developing and emerging economies".

GH2 board founding member Andrew Forrest business aims to produce 15 million tonnes of green hydrogen a year by 2030, said: "Green hydrogen is on an unstoppable march. What we need now is a rigorous accreditation standard so that investors and consumers know they are getting the real deal."

More info can be found here: <https://www.rechargenews.com/energy-transition/hydrogen-now-firmly-at-the-heart-of-the-global-race-to-net-zero-for-better-or-worse/2-1-1058073>