

# HUGE NEWSFLASH

Hydrogen Utilization & Green Energy

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## Green Hydrogen from geothermal

CeraPhi Energy and CCV have partnered up to develop scalable Green Hydrogen production running on baseload geothermal power.

Through the combination of CeraPhi's closed loop technology and CCV's Innovative Hydrogen Technology, one of the goals of this partnership is to develop scalable Green Hydrogen production anywhere with baseload geothermal power.

*"There is a lot of hype around Hydrogen's role in the energy mix being a clean fuel to burn for heating or use for transportation, however, we know most of this is focused on the use of fossil fuel and whatever that's, black, grey or blue, to produce this sustainably at scale means producing fossil fuels in vast quantities forever."* said CeraPhi Energy CEO Karl Farrow.

*"CCV is always looking for new technologies that enhance competitive pricing on green hydrogen production and we are delighted to have entered into this collaboration agreement with CeraPhi."* commented CCV CEO Horacio Carvalho.

More info can be found here:

<https://www.thinkgeoenergy.com/cera-phi-energy-and-ccv-to-produce-green-hydrogen-from-geothermal/>

## HyFEAS Project

Renewables firm Dulas has been awarded funding by the Welsh Government's Smart Living HyBRID\* SBRI to undertake a project which will look at the feasibility of hydrogen production in Wales using renewable energy sources.

Andy Skipton Carter, Commercial Lead for Consulting at Dulas, comments, *"Research into green hydrogen production and defining affordable, sustainable systems that will work with renewable energy locally and at scale is ground-breaking stuff and we are excited to have started on this project. We'll be building on our existing skills and learning new ones so that we can continue to offer our clients pioneering, effective renewable solutions that will help combat climate change and support local energy security."*

If locally produced hydrogen were available, haulers, train operators and construction companies could easily deploy hydrogen powered trucks, trains and equipment in Wales. The Welsh Government also hopes that by developing the hydrogen energy sector, Wales will attract the new zero-emission automotive industries which would lead to jobs and further investment. Realising the potential of hydrogen could be an exciting and transformative opportunity for Wales.

More info can be found here:

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

## SHYNE (the Spanish Hydrogen Network)

A new multi-sector consortium of 33 companies and organisations, led by Spanish oil giant Repsol, is to invest €3.23bn (\$4.4bn) to promote hydrogen technologies and install 500MW of green H2 capacity by 2025 and 2GW by 2030 — half of the Spanish government's 4GW target.

SHYNE (the Spanish Hydrogen Network) will also build renewable-energy projects to power the electrolyzers, promote the use of hydrogen "in all transportation segments" through the production of synthetic fuels and at least 12 new hydrogen filling stations by 2025, while also promoting the use of green H2 in heating and heavy industry.

The project aims to "generate an ecosystem that connects" three planned industrial hydrogen hubs in the Basque region, Catalonia and Murcia; create two new innovation hubs in Madrid and Castile-La Mancha to develop solid-oxide electrolyzers and photoelectrocatalysis — a technology that creates H2 directly from solar energy without the need for electrolyzers that Repsol plans to make commercially viable by 2030; and build a knowledge management centre in Madrid to coordinate all activity.

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>