

HUGE NEWSFLASH

Hydrogen Utilization & Green Energy

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Offshore wind makes waves by splitting water

Wind Power Monthly covers a wide range of pilot projects looking at using offshore wind and other renewable energy to produce green hydrogen via electrolysis.

Projects from across Europe are covered but a UK Government funded project partnered with a Danish developer Ørsted for a feasibility study demonstrating “the delivery of bulk, low-cost and zero-carbon hydrogen GW-scale polymer electrolyte membrane (PEM) electrolysis, manufactured in the UK.”

The project aims to reduce the cost of producing green hydrogen by developing 5MW “stack” modules and 100MW+ electrolyser units. The reduced material costs, semiautomated production process, and co-location with offshore wind is aimed at slashing the cost of green hydrogen.

More info can be found at: windpowermonthly.com/article/1674938/offshore-wind-makes-waves-splitting-water

Elementary: U.K.'s £28 Million Bet On Hydrogen, Explained

Forbes covers the announcement from the UK Government that is to commit £90m in cutting emissions from industry and homes in line with the 2050 net-zero aims.

Out of the £90m a sum of £28m will be committed to hydrogen projects in England and Scotland. Two projects ‘Gigastack’ and ‘Dolyphyn’ looking at green hydrogen and offshore wind have been previously in the HUGE Newsflash series.

Tony Alderson from the engineering consultancy WSP is quoted as saying “*The government’s backing of decarbonized hydrogen is certainly a positive commitment to a low carbon economy, and this significant sum of money will allow a number of existing and planned projects to go to the next stage of development.*”

The article then goes on to explain and explore “green hydrogen” against the options of low carbon and “clean hydrogen” with carbon capture and storage.

More info can be found at: www.forbes.com/sites/davidrvetter/2020/02/21/elementary-uks-36-million-bet-on-hydrogen-explained/#478fd6ee3491

Floating wind, carbon capture and hydrogen to lead Norwegian oil's energy transition

Continuing with the offshore wind theme *RechargeNews* explores the role hydrogen looks to play in decarbonising the Norwegian oil sector.

The Norwegian oil and gas industry aims to transition with targets cutting its emissions by 40% by the end of the decade and to “near zero” by 2050.

The new plan, which has been developed by industry bodies Norwegian Oil & Gas, the Norwegian Shipowners Association, the Federation of Norwegian Industries, and a number of the country’s unions looks to floating wind, carbon capture and storage, and hydrogen to achieve targets.

The plan has ambitions to use hydrogen gas as both a fuel for shipping, but also in electricity generation. The report outlines the aim to have hydrogen as a shipping fuel demonstrated by 2025.

More info can be found at:

www.rechargenews.com/wind/floating-wind-carbon-capture-and-hydrogen-to-lead-norwegian-oils-energy-transition/2-1-764919