

WHY?





"WE WANT TO CHANGE THINGS NOW, NOT TOMORROW!"

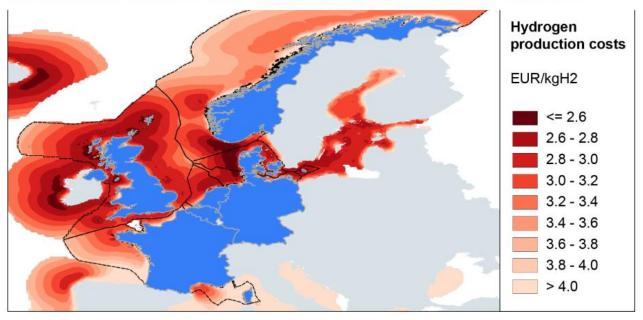




EU ambitions by 2030:

- 40 gigawatts of green hydrogen using electrolyzers
- => About 80 to 120 gigawatts needed to power them

Hydrogen production costs from offshore wind in the Accelerated scenario, 2030



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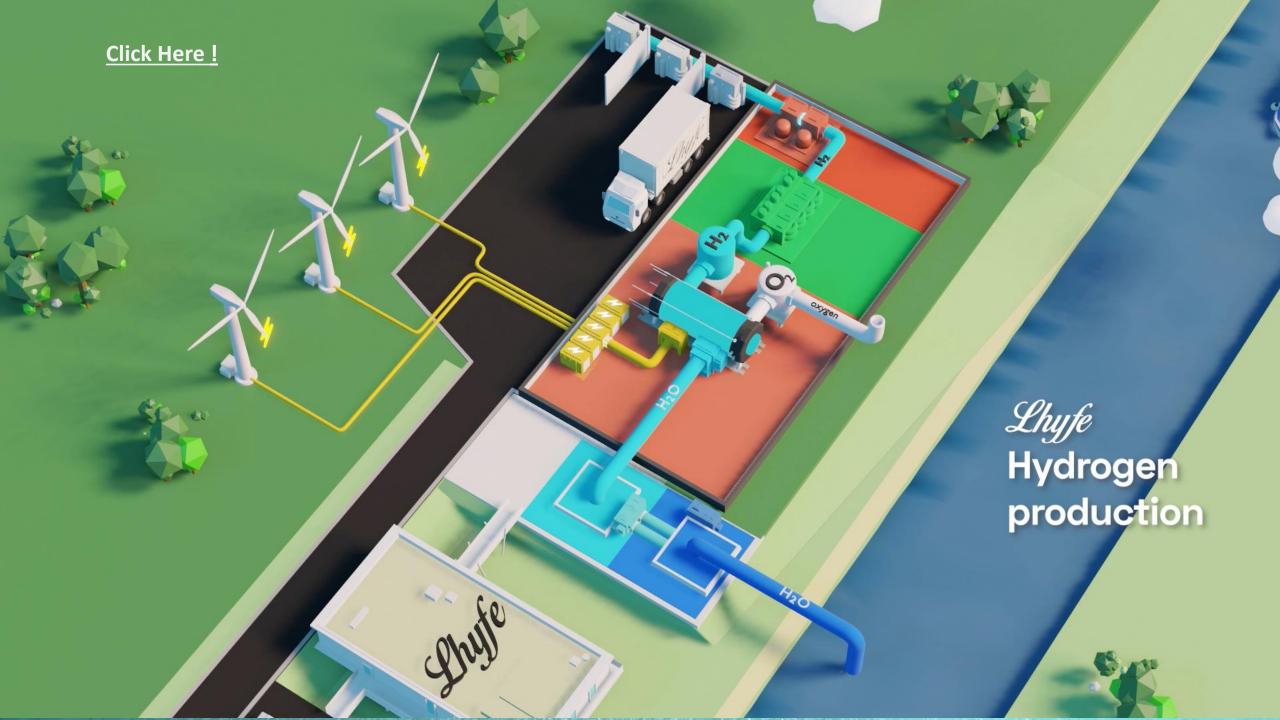
Notes: This map is without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area. The analysis is based on hourly wind speed data from Copernicus Climate Change Service (2020).⁵⁶

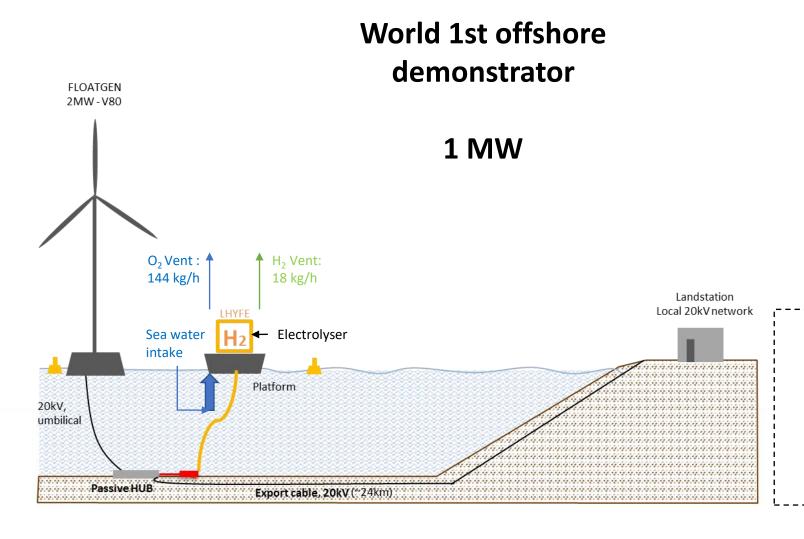


Lhyfe PRODUCER AND SUPPLIER OF CLEAN & RENEWABLE HYDROGEN

...directly connected to the renewable energy











Green electrons only



Remote operations from LHYFE data center

Sea Lhyfe

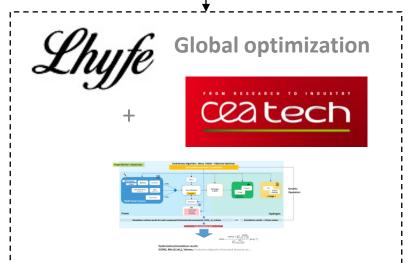
Project

Offshore H2 production concept developments









Topside Concepts

- From 100 MW and above
- Can produce about 50 T/d of H2 corresponding to 1000 boe/d

Floating Concepts

- 10 MW and above
- About 5 T/d and above

H2 Technology

- Transport
- Storage

Haldane Project

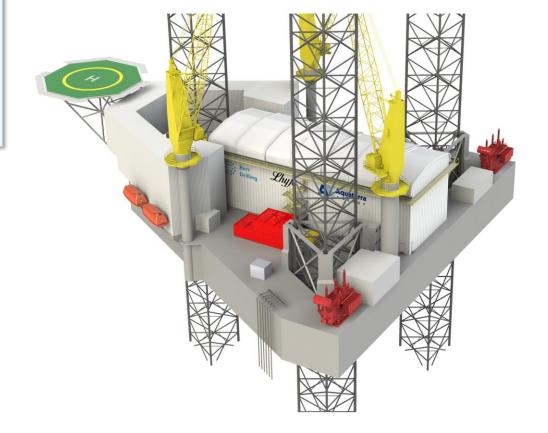
Background and Characteristics

Use an existing Jack-up rig

Design and accomodate H2 process

About 300 MW electrolysis capacity

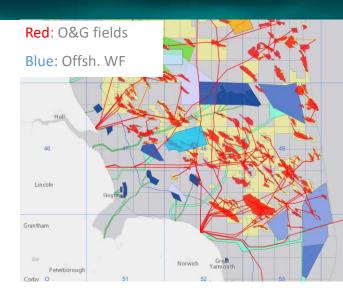
About 120 T/d H2 production corresponding to about 3000 boe/d





















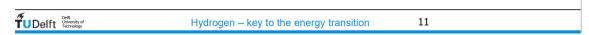
Electricity production Client Electrolysis H₂ Transport & Storage O₂\re-injection Win the fight!

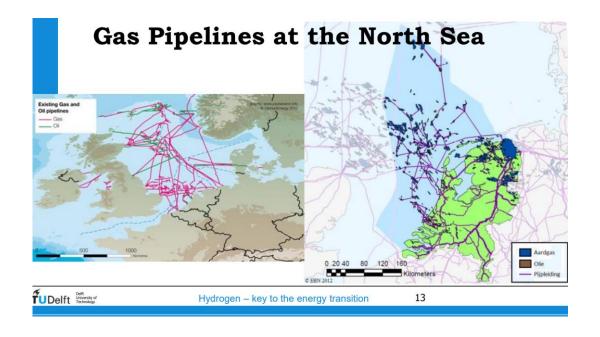




Cable versus pipeline cost

	Cable Pipeline (BBL)	
	(BritNed)	· , ,
Capacity	1 GW	15 GW
Construction Cost	€ 500 mln	€ 500 mln
Volume (year)	8 TWh	120 TWh





- > A higher cost efficiency to transport energy by pipe as by cable
- > An offshore gaz network compatible with hydrogen
- > An onshore gaz network under development

OUR AMBITIONS FOR OFFSHORE DEPLOYMENT

