Lhyfe | Floating Wind and Hydrogen

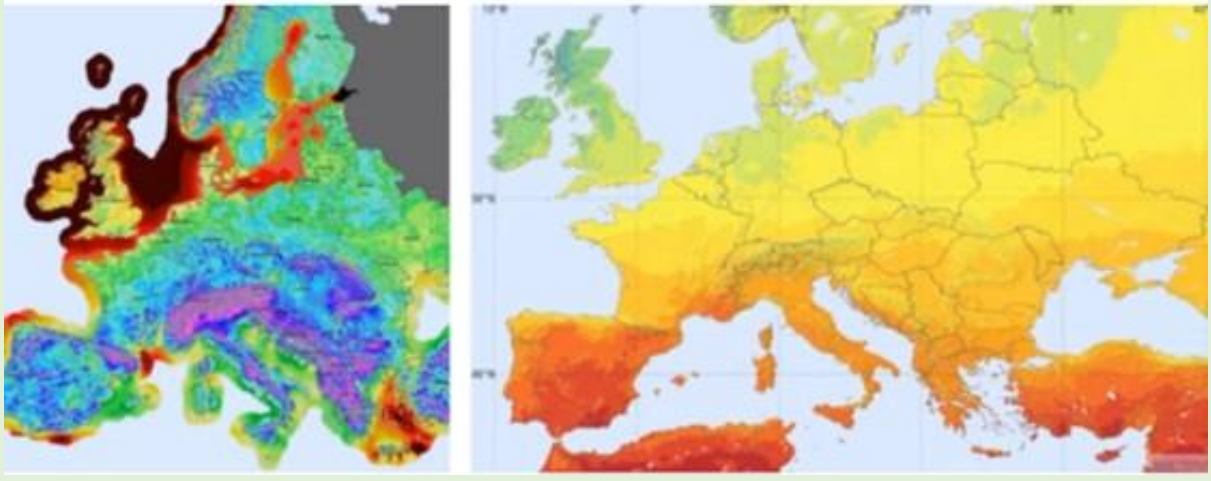

Lhyfe
• Lhyfe and Chantiers de l'Atlantique
• Memorandum of Understanding for the development of offshore hydrogen production platforms.


OUR PRODUCTION SITES
First site in operation
Bouin (Vendée)
Opened
September 2021
Capacity
300 kg to 1000 kg of H2 a day
Energy source
Wind farm (direct)
Water source
Sea
Uses

By 2025	By 2027	By 2028 - 2030
Ability to supply every "corner" of Germany with green hydrogen.	Ability to supply some regions with larger quantities from XXL plants (>200 MW)	Offshore production of green hydrogen
Reasonable quantities by tube trailer	Large quantities delivered by pipe backbone	Very large quantities delivered by pipe backbone
Onsite production	Onsite production	Onsite production
	Local distribution by tube trailer center connected to backbone	Local distribution by tube trailer center connected to backbone

Why offshore hydrogen production ?

Wind vs. Solar in Europe



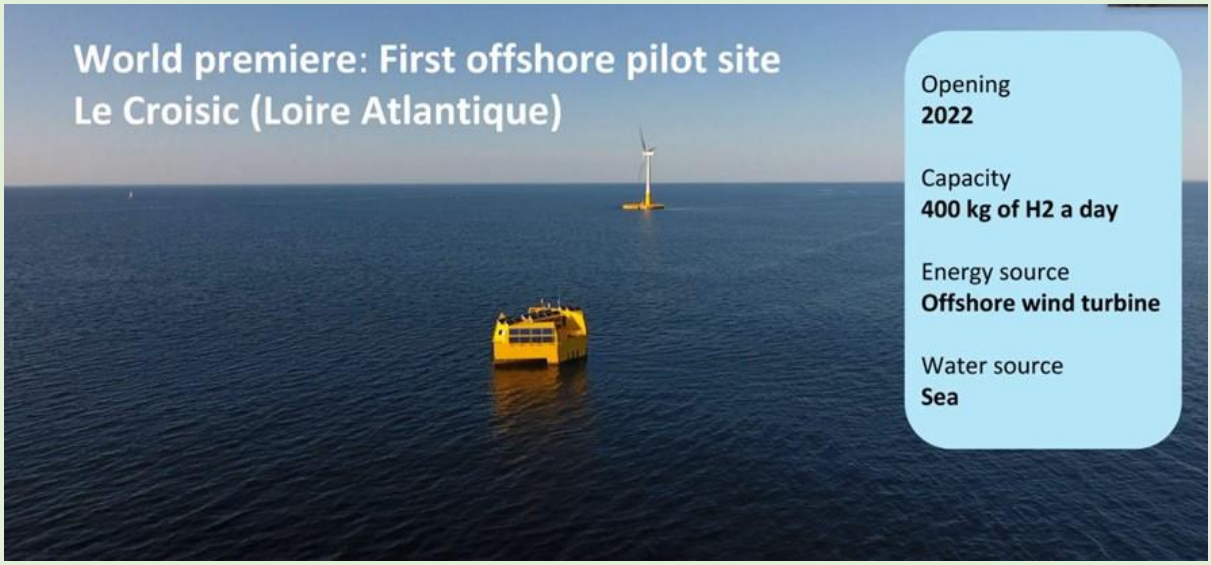
Why offshore hydrogen production ?

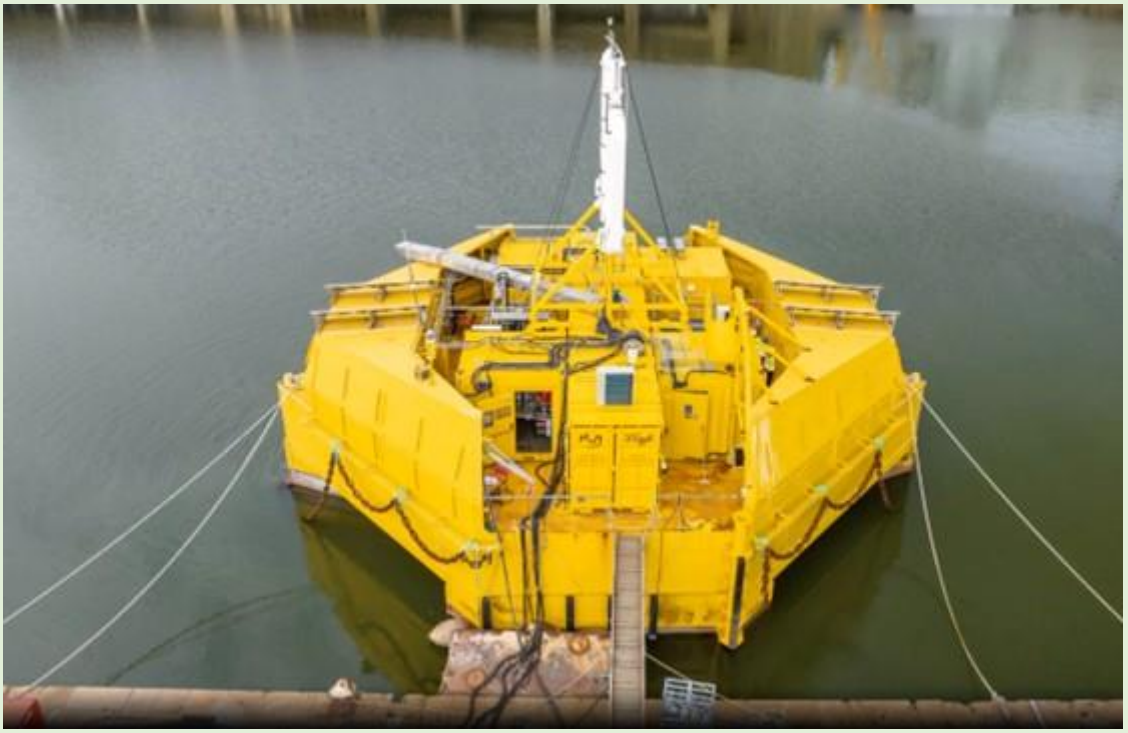
If new investments required to deliver energy to shore

- **Cable versus pipeline cost (1GW)**
- Factor 10 cable more expensive

- **Cable versus pipeline energy capacity**
- Factor 10 pipeline can transport more energy capacity


• Hydrogen production on floater
• Designed by Doris, investment and operation by Lhyfe
DORIS
Lhyfe


World premiere: First offshore pilot site
Le Croisic (Loire Atlantique)
Opening
2022
Capacity
400 kg of H2 a day
Energy source
Offshore wind turbine
Water source
Sea



https://bit.ly/3MMi2Ds

sectoral training

https://bit.ly/3hbRE4A

Floating Wind and Hydrogen

Charley Rattan Associates
Wind and hydrogen consultancy and training