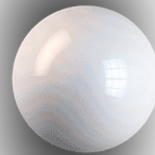




*Lhyfe*

**ShipZERO28 Call To Action!**



**Hydrogen Offshore  
From 1MW to 10 MW and Beyond**



*Lhyfe*

# ▶ Contents

1. Lhyfe
2. Projects
3. Joint-up Thinking And Strategic Foresight
4. Let's Do This

## ▶ Our Vision

# Replacing fossil fuels by renewable hydrogen

“

Some think renewable hydrogen is the future. We believe it is here and **now**.

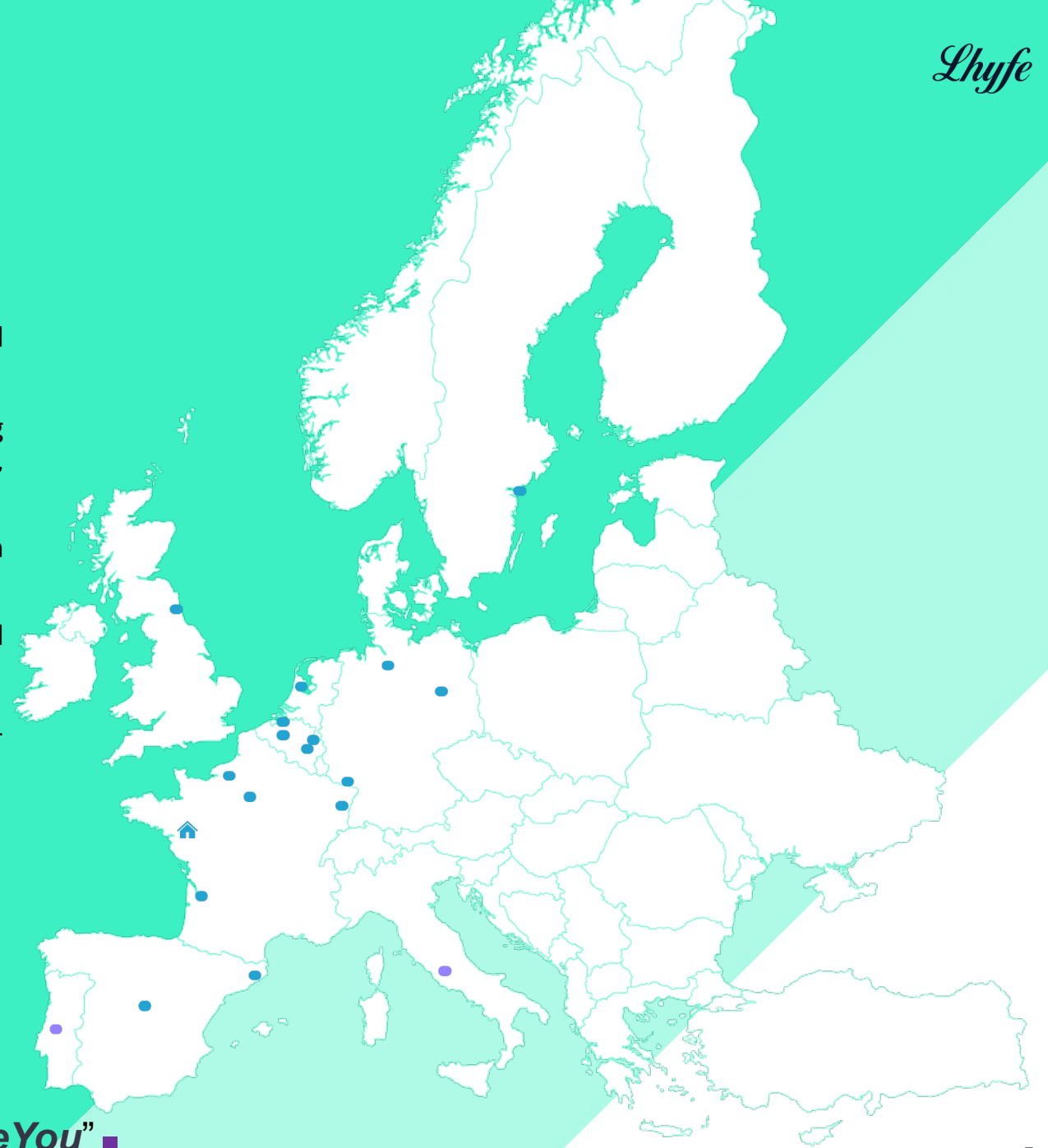
Matthieu Guesné - CEO



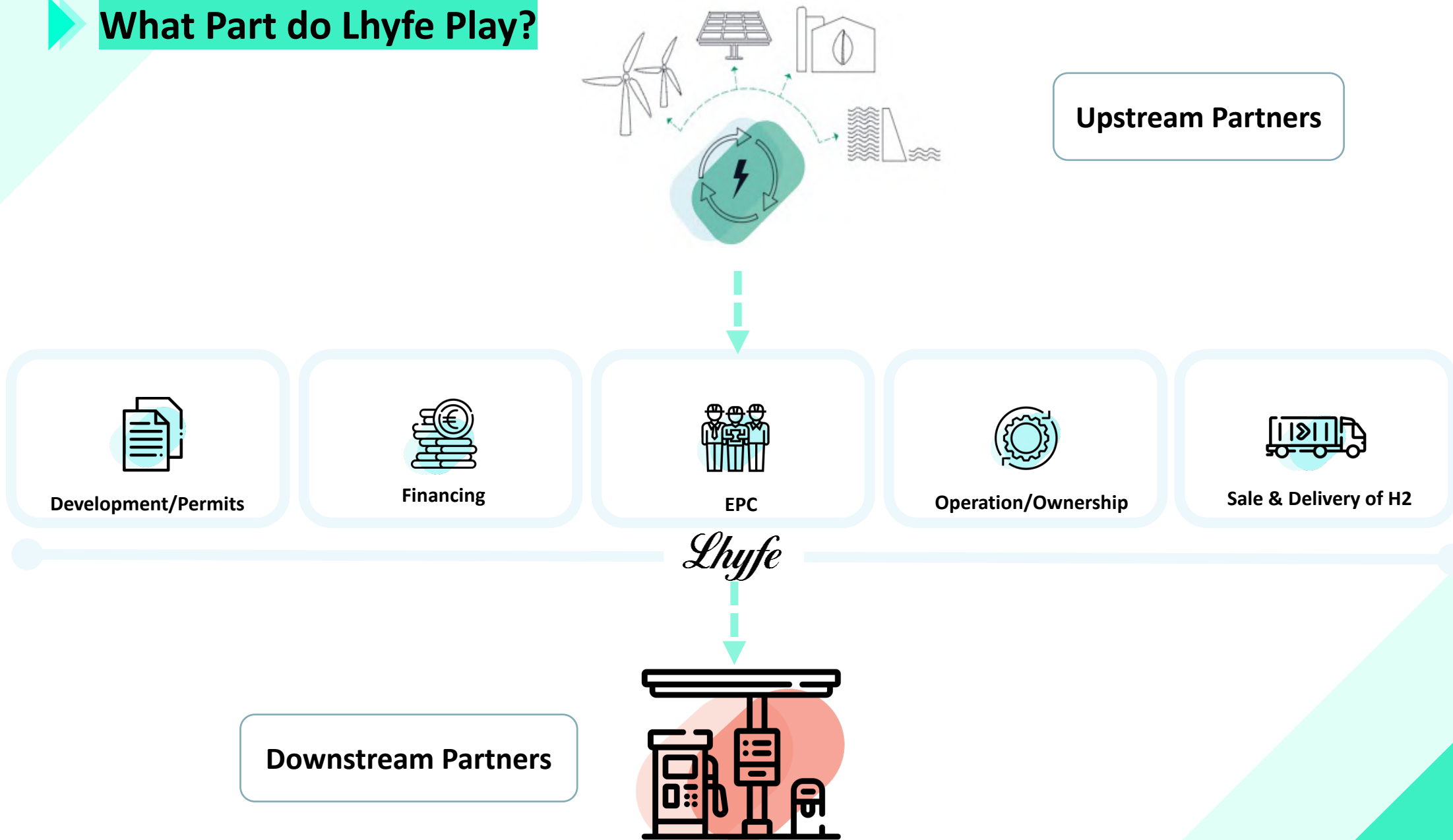


## ▶ Who are Lhyfe?

- 2017 Founded by CEO Matthieu Guesné, Lhyfe is a producer and supplier of green and renewable hydrogen.
- 2021 - 1st in the world to produce renewable green hydrogen using wind power on an industrial scale at our production facility in Bouin, Vendée, France.
- 2022 - SeaLhyfe, the world's 1st offshore renewable hydrogen production pilot site launched from the port of Saint-Nazaire, France.
- 2023 - 5 further sites currently in construction in France, Germany and Sweden.
- HQ in Nantes France, now an international group present in 11 countries across Europe and North America with ~ 150 employees.
- Financial Backing:
  - Pre 2022 initial funding - secured € 70 million
  - 2022 secured further funding - Mitsui & Co Ltd, EDPR
  - May 20th 2022 IPO on Euronext - raising € 140 million
  - Current market capitalisation € 335 million



# ▶ What Part do Lhyfe Play?



▶ Experienced, Dedicated & Focused Team

2023

- ▶ 5 new sites
- ▶ Portfolio: 9.8 GW across Europe

2030

- ▶ 3 GW

2026

- ▶ 200 MW

2024

- ▶ 55 MW

2021

- ▶ World's first onshore H2 production installation connected to a Wind Farm
- ▶ 1 MW

# ▶▶ Lhyfe H2 Offshore Projects

**Sealhyfe**  
World's first Offshore  
Hydrogen production  
Demonstrator **1MW** -  
*France*



**HOPE**  
**10MW** project - *Belgium*



**100s MW** centralized  
and decentralized  
Concepts ready for  
Tenders



*“From Small Steps to Great Leaps”* ■





# Inauguration of the SEALHYFE offshore hydrogen production platform

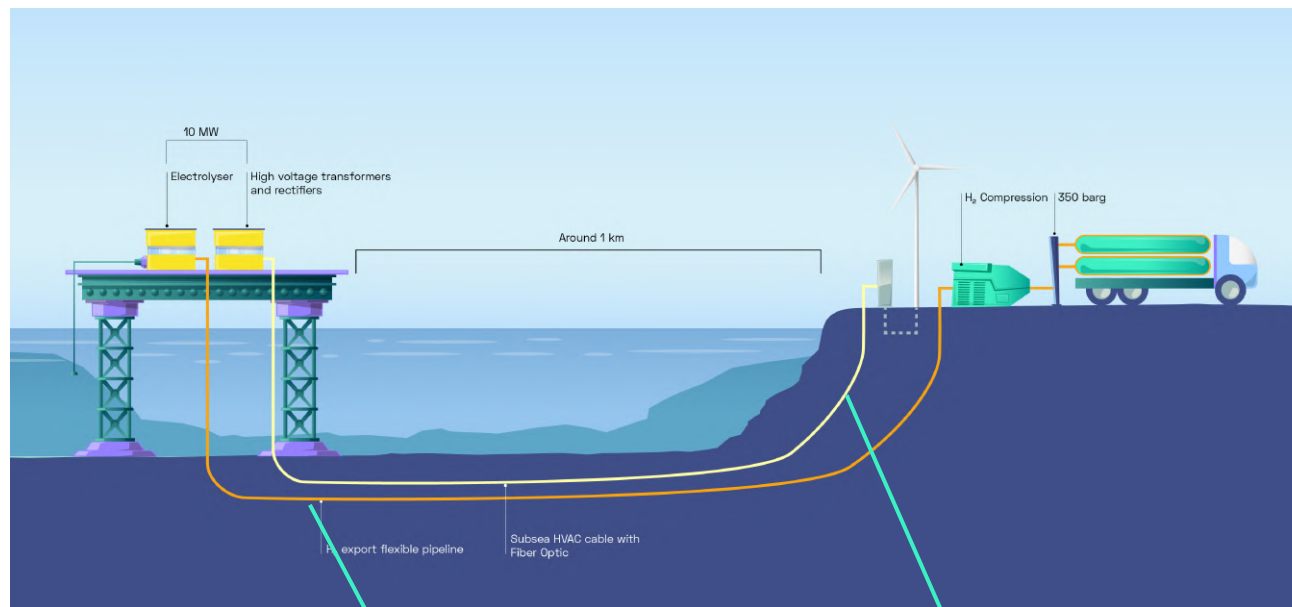
Watch the film:

<https://www.youtube.com/watch?v=IN7s0f566XU>

# 10 MW HOPE Project / Belgium

## Key Figures:

- Nominal production rate : 4Te H2 / day
- Engineering phase started in June 2023
- Operation date : 2026



## Offshore barge with:

- Water supply and treatment
- 10 MW Electrolyser (PEM Technology)
- High Voltage Transformers and Rectifiers
- Control system

## Onshore Site with:

- H<sub>2</sub> Compression
- Distribution Station (8 lodges)
- Supervision Room



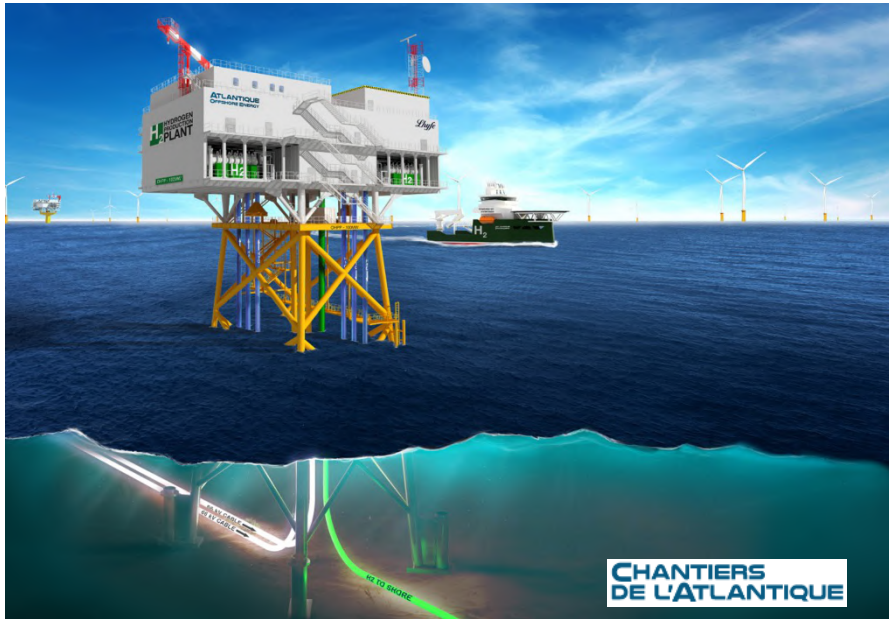
H2 export flexible pipeline



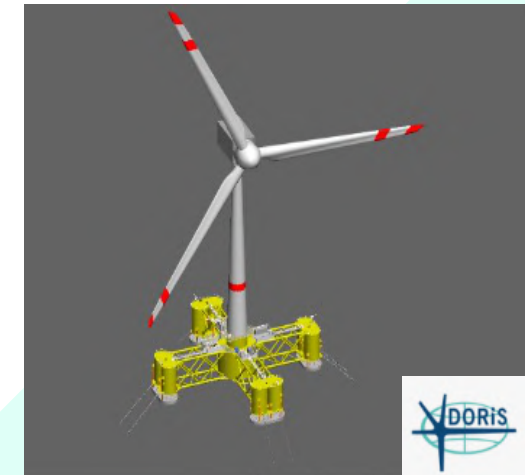
Subsea HVAC cable with Fiber Optic

# ▶ 100s MW H2 Production Concepts

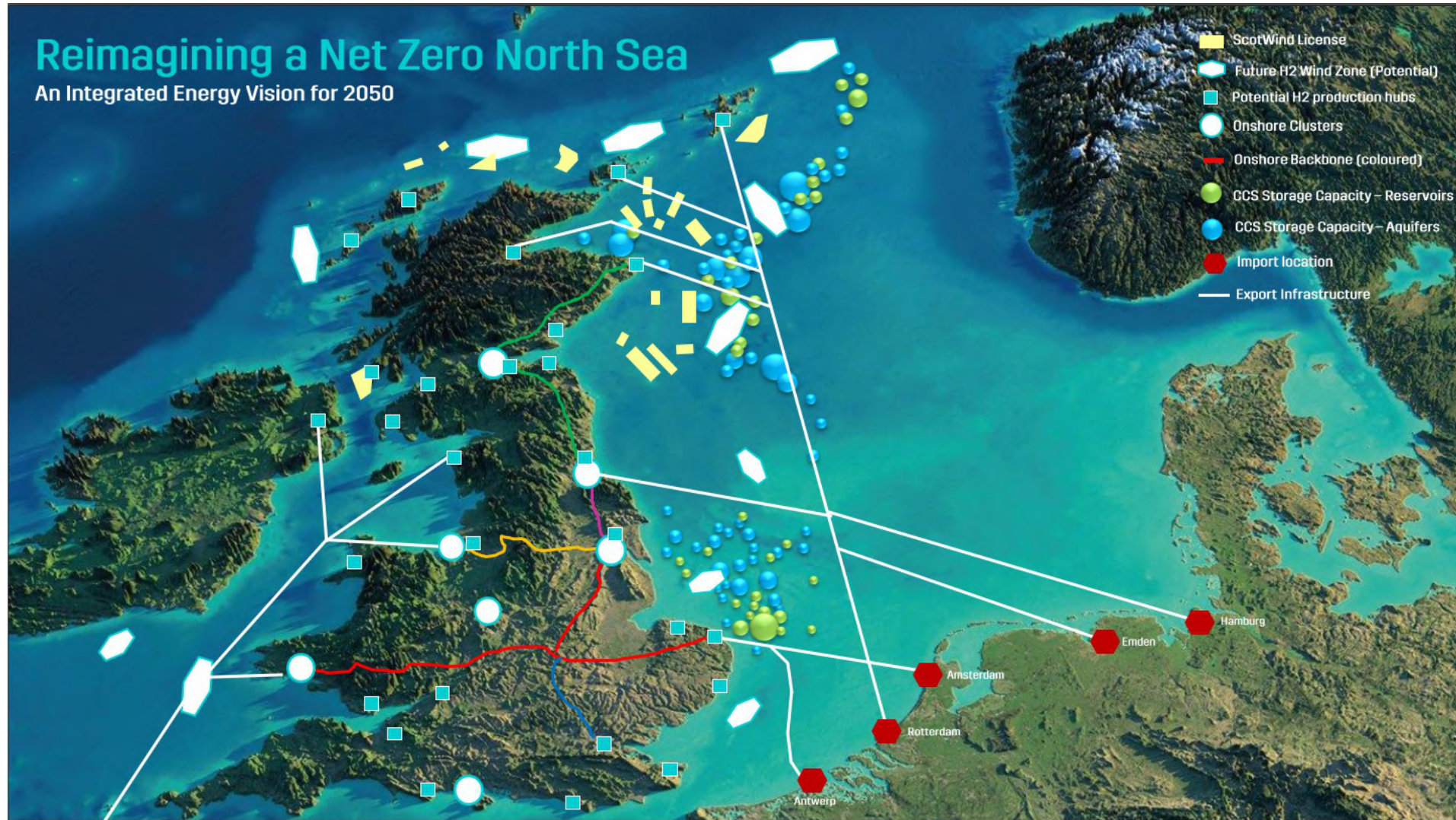
## Centralised H2 Production On Offshore Platform



## De-Centralised H2 Production On Wind Turbine Transition Piece



# Vision of the future



“Staying ahead of the curve” ■

## Joint-up Thinking And Strategic Foresight Between Parties

1

### IPP

- › Create partnerships
- › Value for both parties via commercials negotiations of PPA

2

### Maritime Offtake

- › H2 as a fuel or fuel cell - TRLs
- › Regulations and approvals
- › Needs and requirements of marine sectors for viable business case

3

### Barriers to entry

- › Barriers, challenges and risks
- › Sharing resources
- › UK H2 policy and targets

4

### Funding mechanism

- › CAPEX, OPEX, DEVEX
- › Risk and Reward
- › Commercial demonstrator
- › Subsidies

*“A boat doesn’t go forward if each one is rowing their own way”* ■



# Contact us

Stuart SINCLAIR

**+447851021907**

[stuart.sinclair@lhyfe.com](mailto:stuart.sinclair@lhyfe.com)