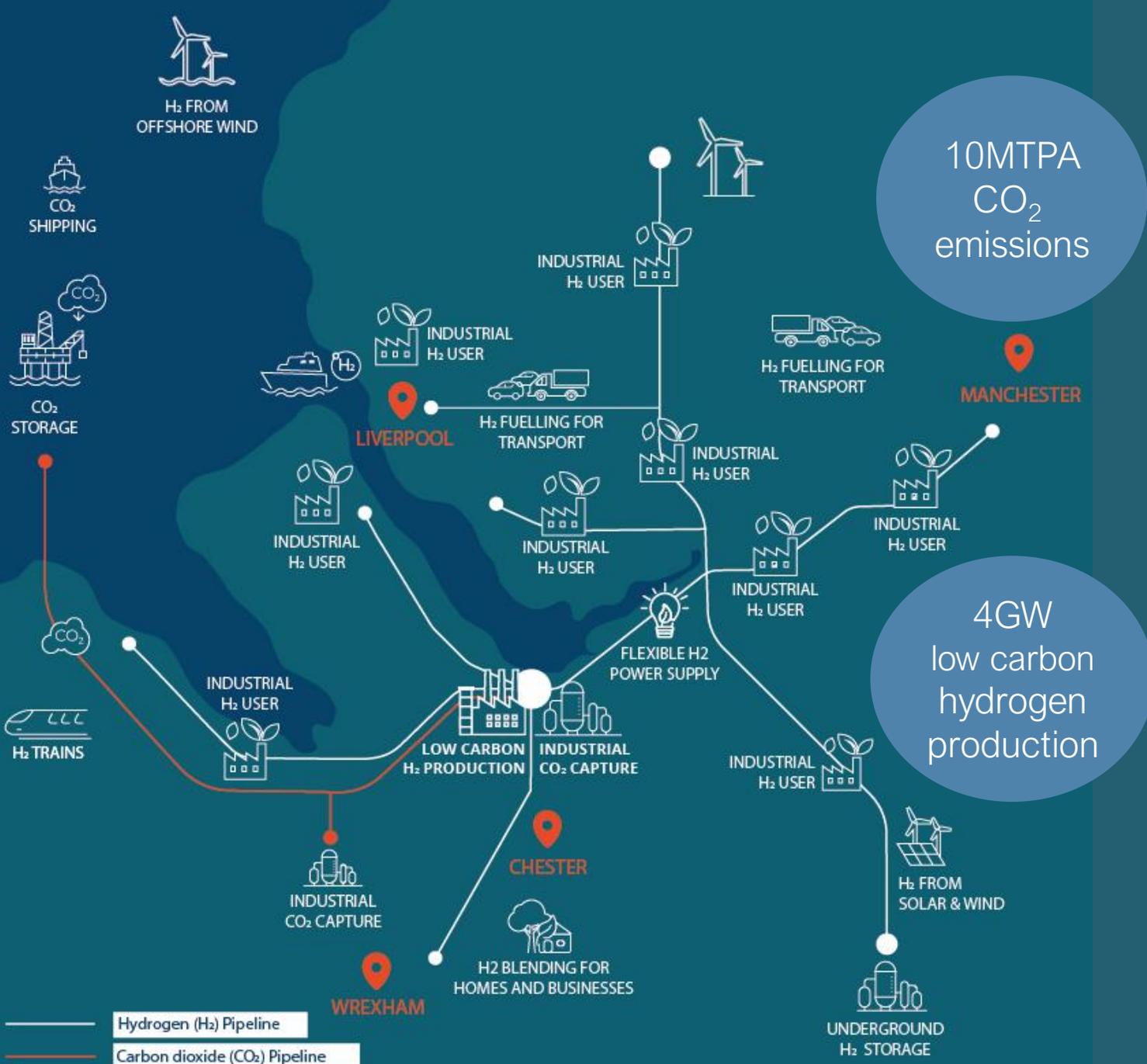


# HyNet

All Energy

May 2023





10MTPA  
CO<sub>2</sub>  
emissions

4GW  
low carbon  
hydrogen  
production

# Elements of HyNet

## Carbon capture and storage

- 10+ industrial carbon capture facilities
- Pipelines to permanent safe storage in depleted gas reservoirs

## Low carbon hydrogen system:

- Connecting 30+ industrial and power generation plants
- Most advanced development in the UK
- Production
- Distribution
- Storage

# North West 'Track 1' Industrial Cluster

....delivered by a committed consortium

....led by regional demand



# HyNet

# HyNet: hydrogen production



- 1GW of CCS-enabled low carbon hydrogen
- First production from HPP1 in 2027 = 350MW
- HPP2 = 700MW
- Located at Stanlow Manufacturing Complex
- First customers: Essar and Encirc



**HyNet**

# HyNet: hydrogen production



- Progressive Energy, Statkraft and Foresight developing a suite of electrolytic hydrogen projects to feed into HyNet.
- Includes the proposed 28 megawatt (MW) which will use renewable electricity from Frodsham wind farm in Cheshire.
- The initial phase of 100MW of projects will reduce carbon dioxide emissions from industry by up to 180,000 tonnes.

# HyNet

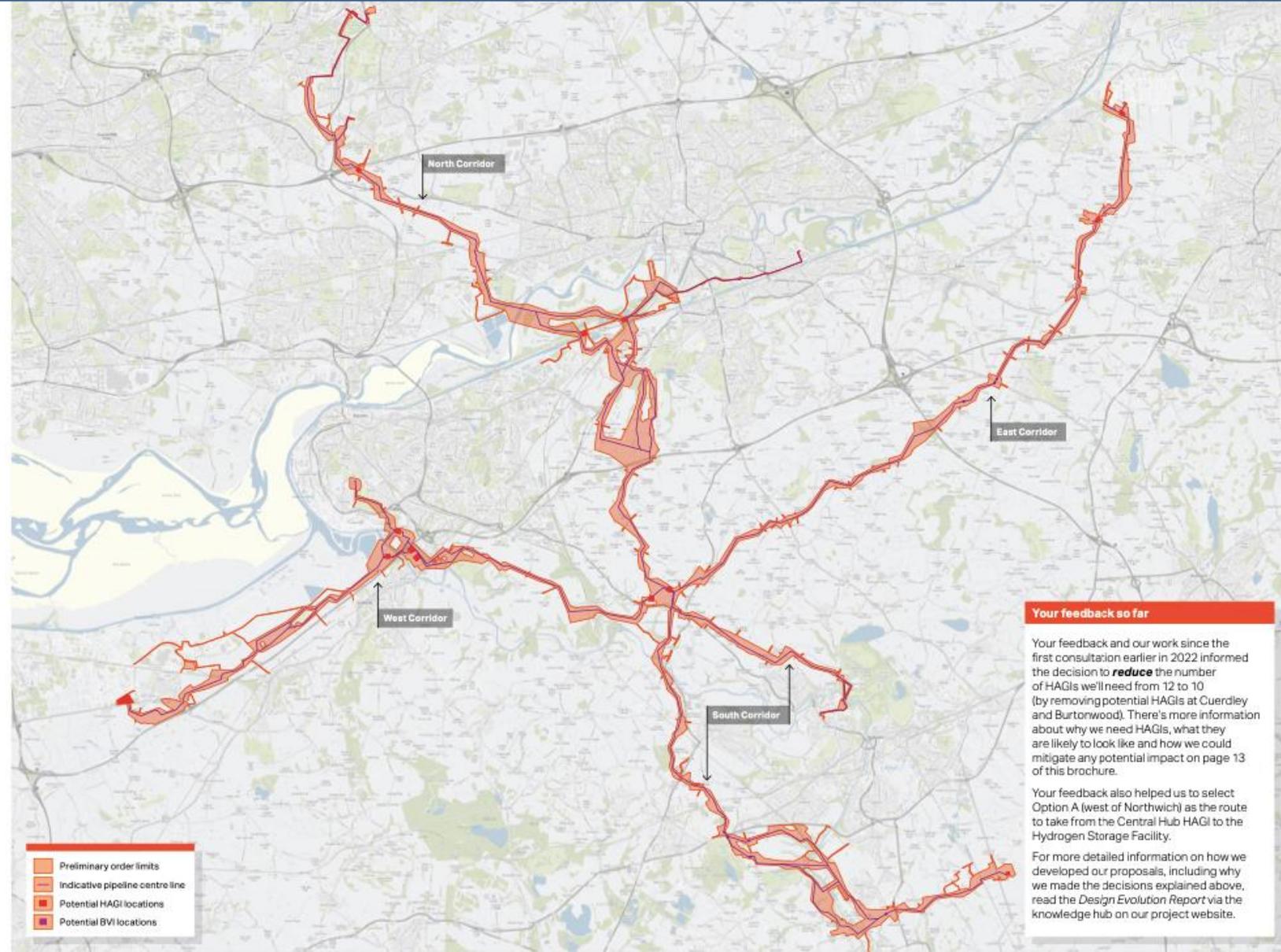


# HyNet: H<sub>2</sub> distribution & storage

**Cadent**  
Your Gas Network

**INEOS**  
Inovyn

- Hydrogen pipeline (Cadent):
  - 100+ km network of hydrogen pipeline
  - FEED engineering underway
  - DCO application in progress
- Hydrogen storage (Inovyn):
  - 1.3TWh hydrogen storage capacity in salt caverns.
  - FEED engineering underway
  - DCO granted



**HyNet**

# HyNet: hydrogen - Industrial Fuel Switching

- Hydrogen trials complete at:
  - NSG Pilkington Glass – Greengate Works
  - Unilever – Port Sunlight
- Hydrogen CHPFEED complete at:
  - Essar – Stanlow Manufacturing Complex
- Feasibility studies underway at:
  - Kellogg's
  - PepsiCo
  - Novelis
  - Essity
  - KraftHeinz



**HyNet**



PILKINGTON



Unilever



PEPSICO

# HyNet

