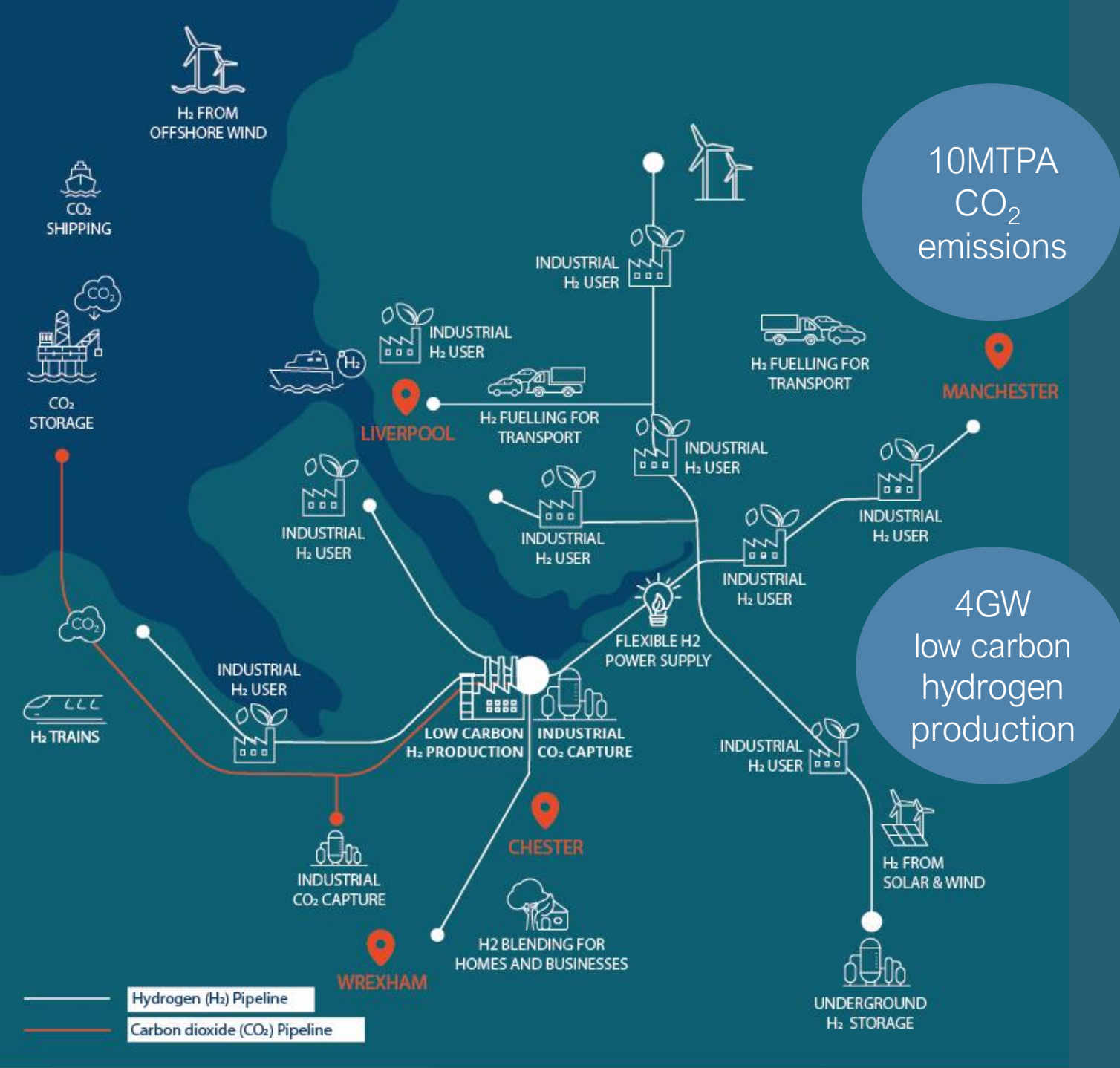


HyNet

All Energy

May 2023





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



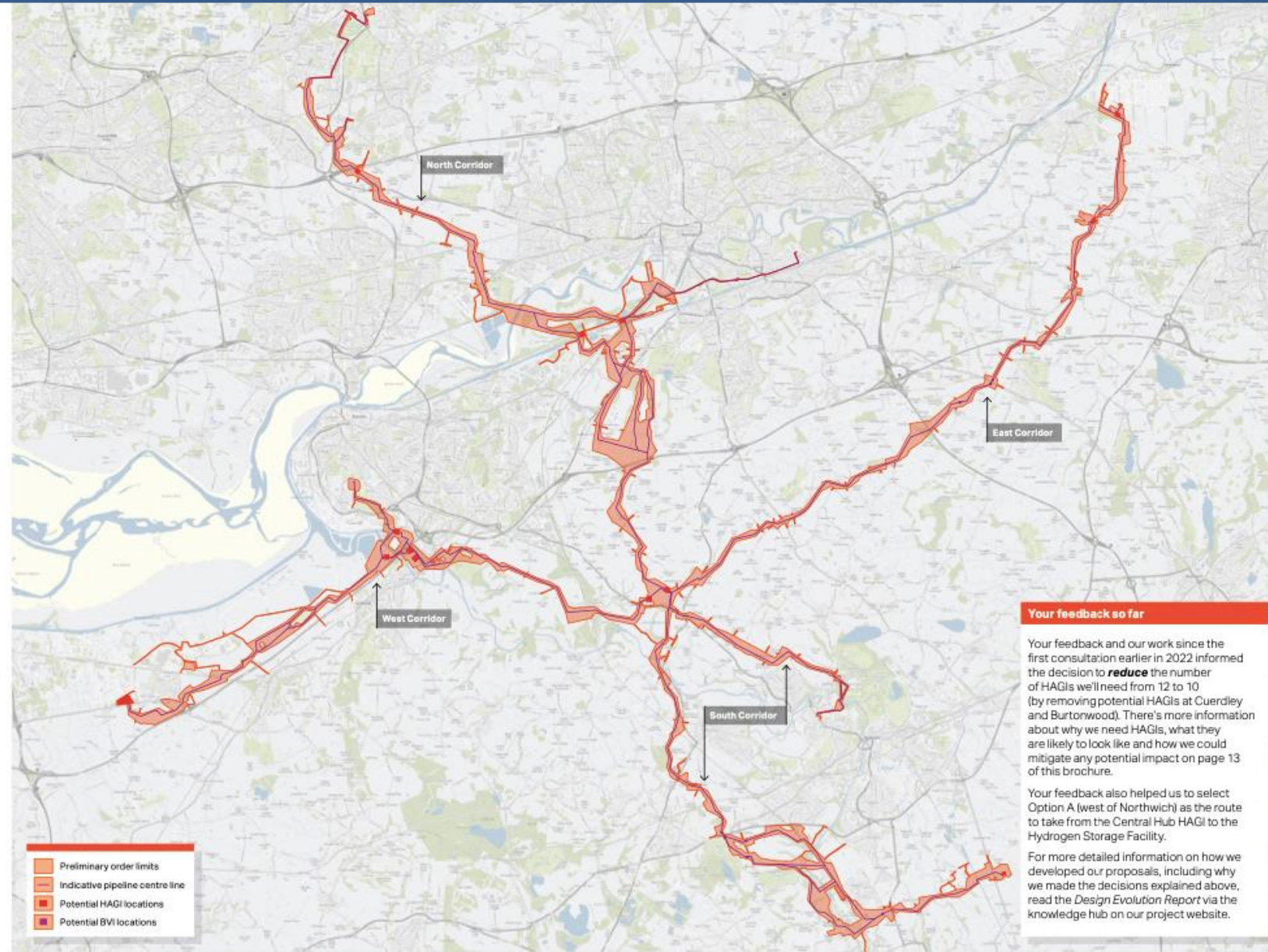
HyNet: H₂ distribution & storage

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 CHP FEED complete at:
 - Essar – Stanlow Manufacturing Complex
- Feasibility studies underway at:
 - Kellogg's
 - PepsiCo
 - Novelis
 - Essity
 - KraftHeinz



PILKINGTON



Unilever



PEPSICO

HyNet

HyNet

