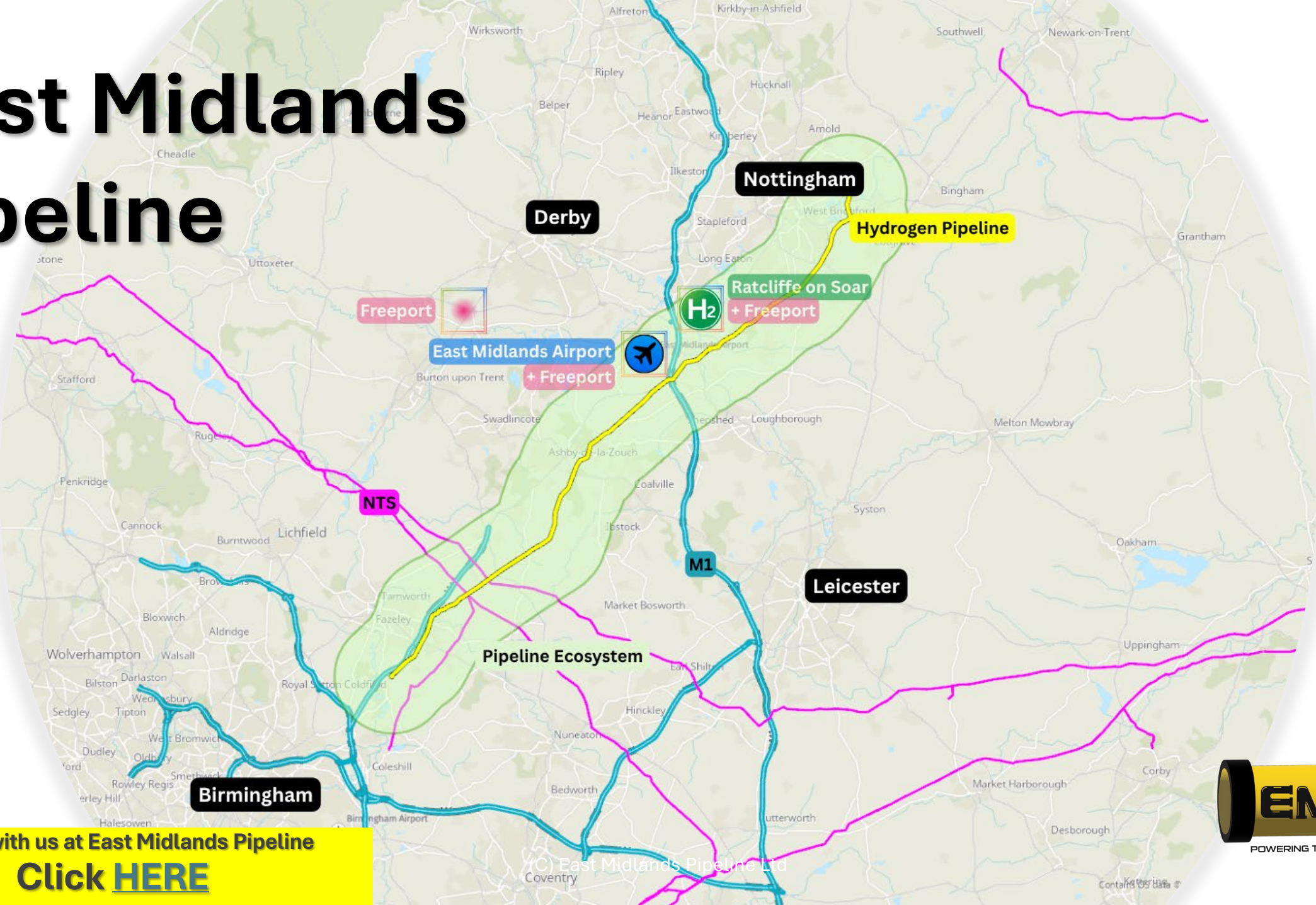


East Midlands Pipeline



Freeport

Nottingham

Derby

Hydrogen Pipeline

H₂

Ratcliffe on Soar + Freeport

East Midlands Airport

+ Freeport

NTS

M1

Leicester

Pipeline Ecosystem

Birmingham

Engage with us at East Midlands Pipeline

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POWERING THE FUTURE

East Midlands Pipeline Ltd



- Independent small company with BIG ideas!
- Aim is to help the UK achieve energy security through building a regional hydrogen ecosystem for generation, offtake and storage
- Produce **GREEN** hydrogen and bring DOWN the price, increasing offtake
- The FIRST and ONLY planned **PURE** (>99.9%) Hydrogen pipeline in UK



Stage 1: Conversion and Demonstrator Site Production
- operational Q4 2027



Stage 2: Development of Wider Hydrogen Ecosystem
- modular integration coming onstream from Q1 2028

The Pipeline (constructed under Pipeline Act 1962)



Colwick Receipts Facility



Existing pipeline was constructed in the 1970s

Buried at an avg. depth of 1.2 meters

Carbon steel pipeline of 10" diameter (API 5L X52)

Clean, maintained & filled with N under pressure

63km route follows a key route to offtakers & intersects NTS

Kingsbury Terminal

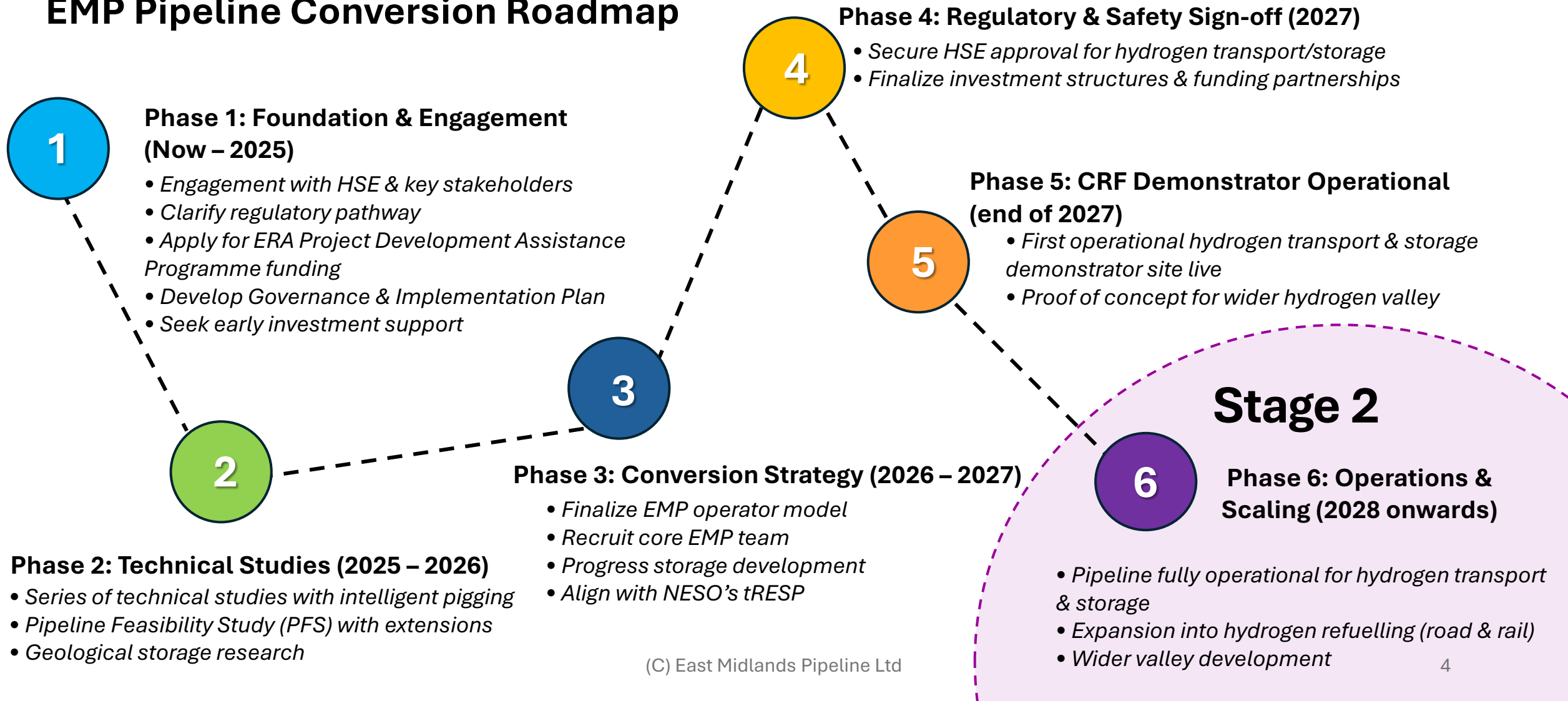


Stage 1: Conversion and Demonstrator Site Production

- operational Q4 2027



EMP Pipeline Conversion Roadmap



Phase 2: Technical Studies (2025 – 2026)



- Integrity Risk Assessment using ILI Tools - Corrosion & Dent Tool (Ultra High-Res MFL-A) and Crack Tool (MFL-C) & pressure test

2

- Structural Reliability Analysis (SRA)

- Design & Feasibility Study (DFS) – with extensions

- Quantitative Risk Assessment (QRA)

- Major Accident Prevention Document (MAPD)

- Initial Geology Data Study Phase 1 Storage
- Phase 2 Geology Study (Aquifer & Coal Seam Storage)

- Health & Safety (HSE) Final Project = Live Pipeline

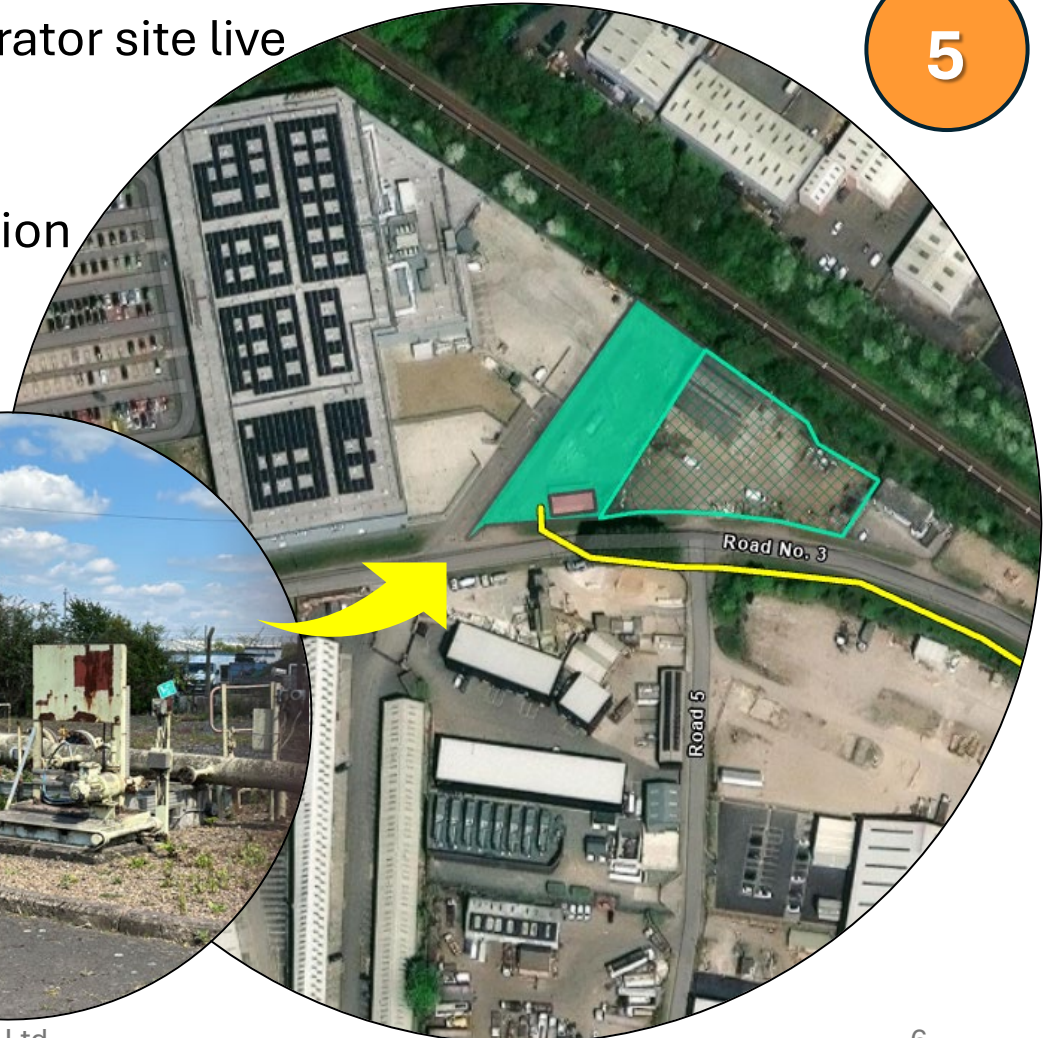
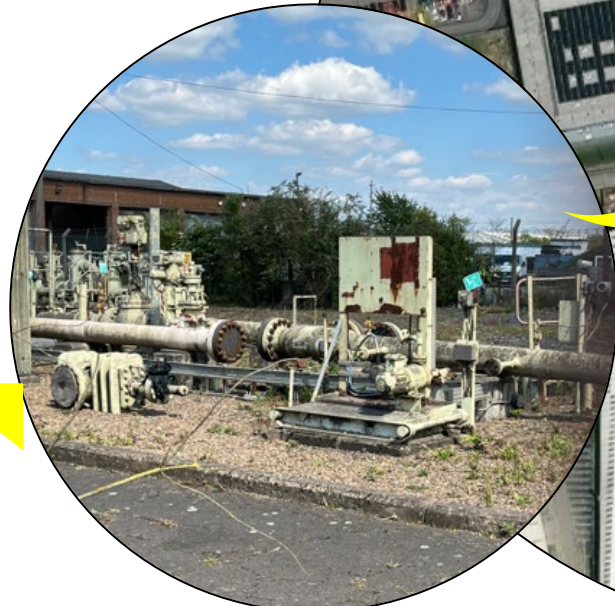
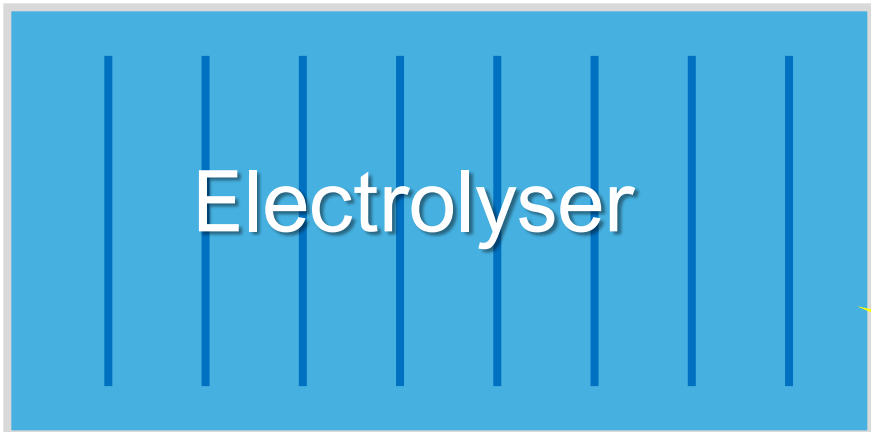


Phase 5: CRF Demonstrator Operational (end 2027)

Colwick Receipts Facility

- First operational hydrogen transport & storage demonstrator site live
- Proof of concept for wider hydrogen valley
- 5MW electrolyser producing 2,000kg/day - 24hr production
- Offtake site for cylinder and vehicle refuelling

5



Stage 2: Development of Wider Hydrogen Ecosystem

- modular integration coming onstream from Q1 2028



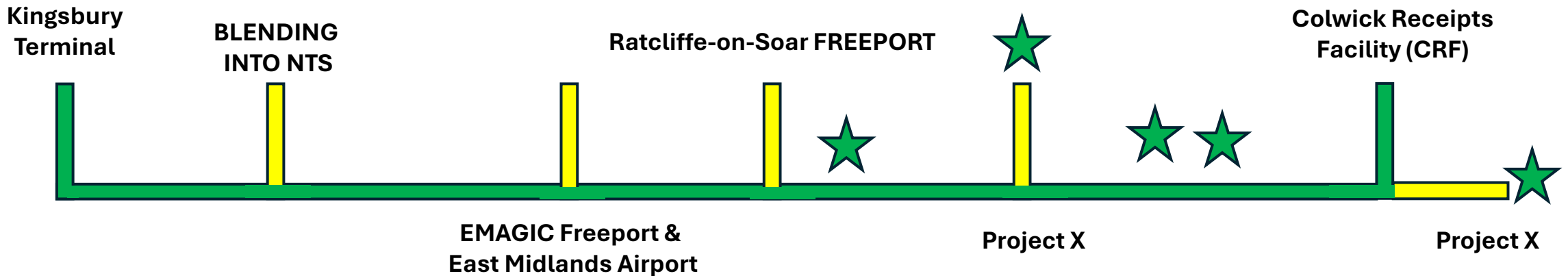
6

Phase 6: Operations & Scaling (2028 onwards)

Modular Site Development for Generation, Offtake and Storage

EMP FULL PIPELINE

Green Hydrogen

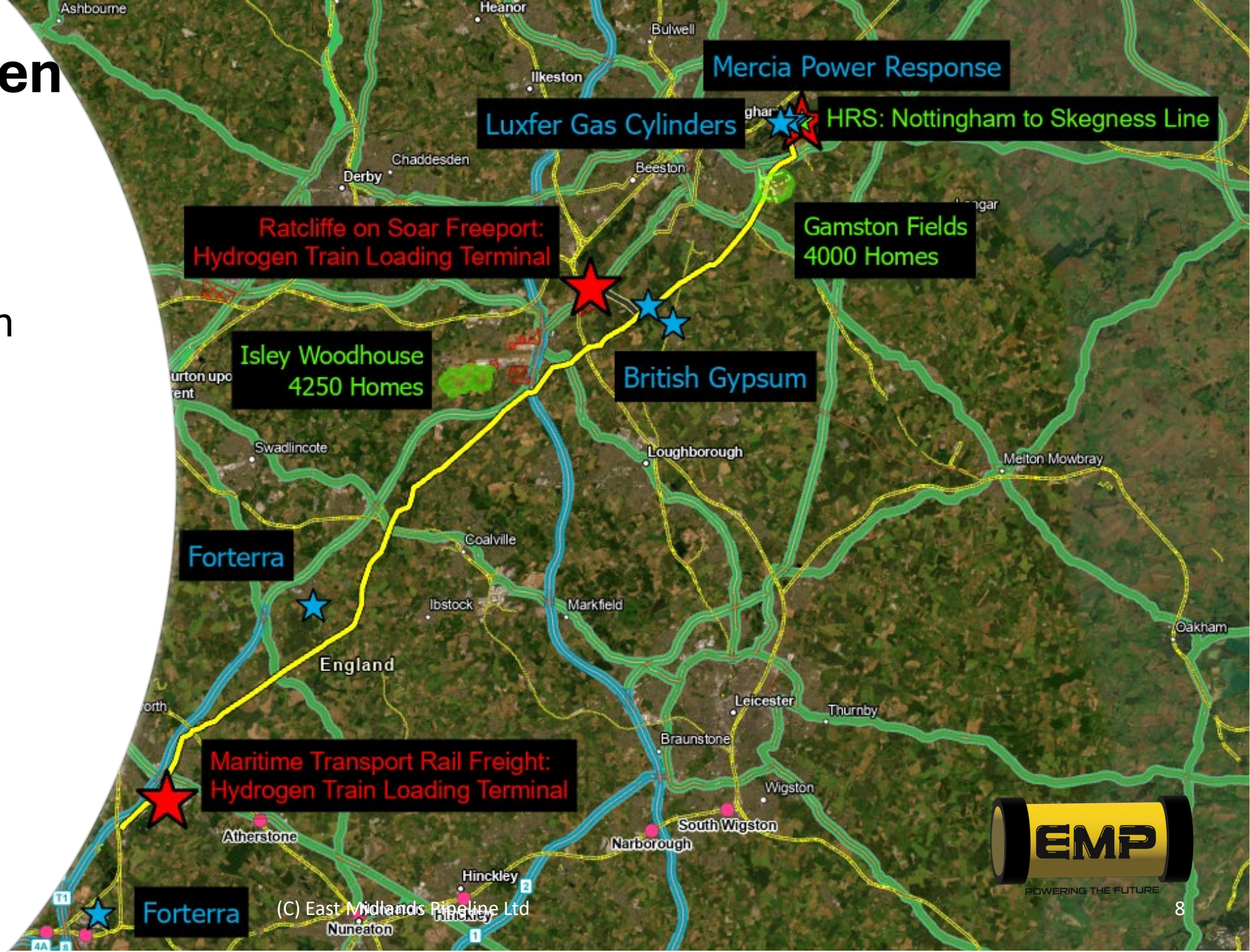


- Existing pipeline
- Strategic extensions

63km original pipeline
(71km including additional planned connections)

Offtake of Green Hydrogen

- Data Centers
- Power Generation
- Industry
- Transport
 - Road
 - Rail

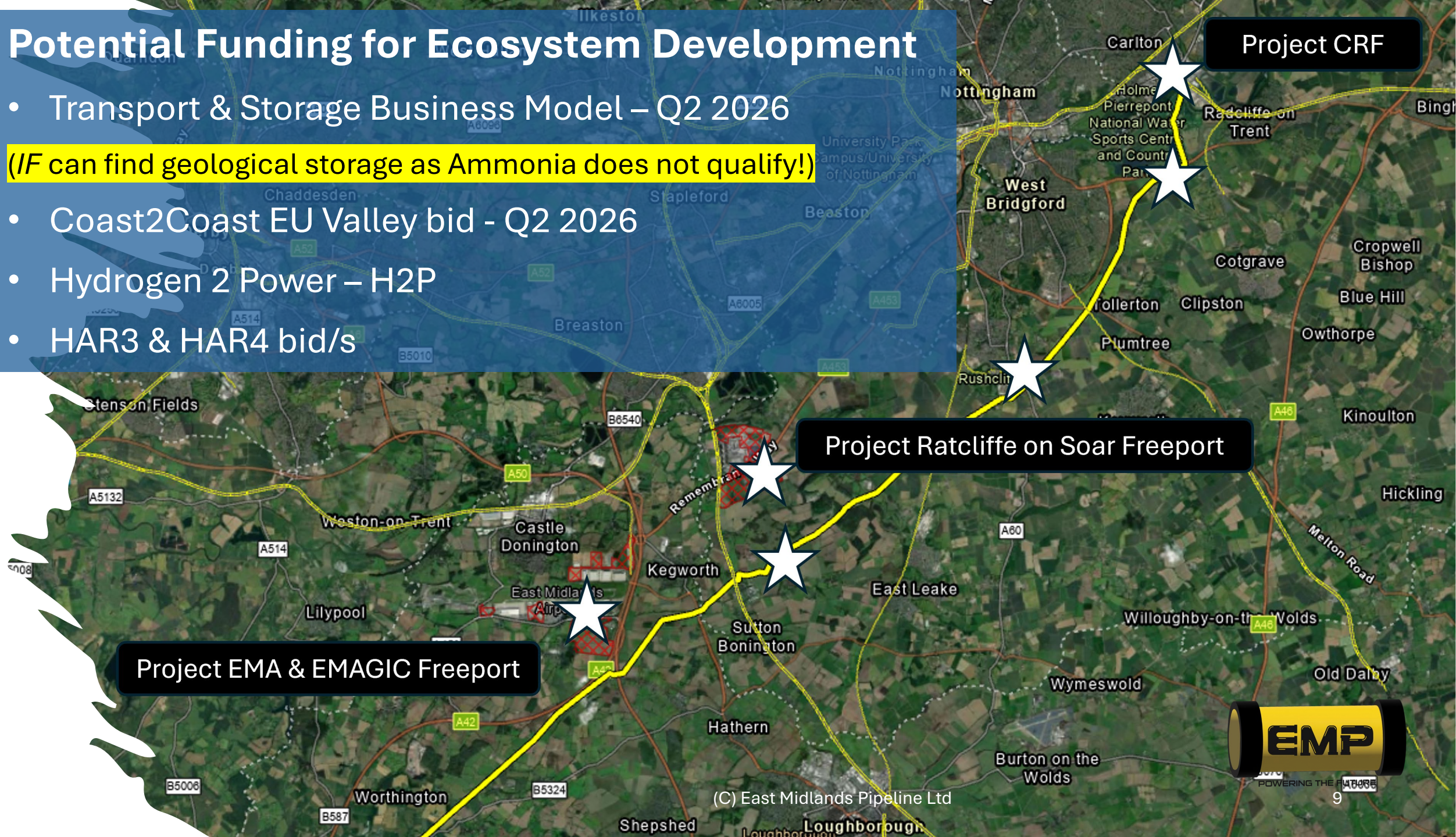


Potential Funding for Ecosystem Development

- Transport & Storage Business Model – Q2 2026

(IF can find geological storage as Ammonia does not qualify!)

- Coast2Coast EU Valley bid - Q2 2026
- Hydrogen 2 Power – H2P
- HAR3 & HAR4 bid/s



Generation of Green Hydrogen

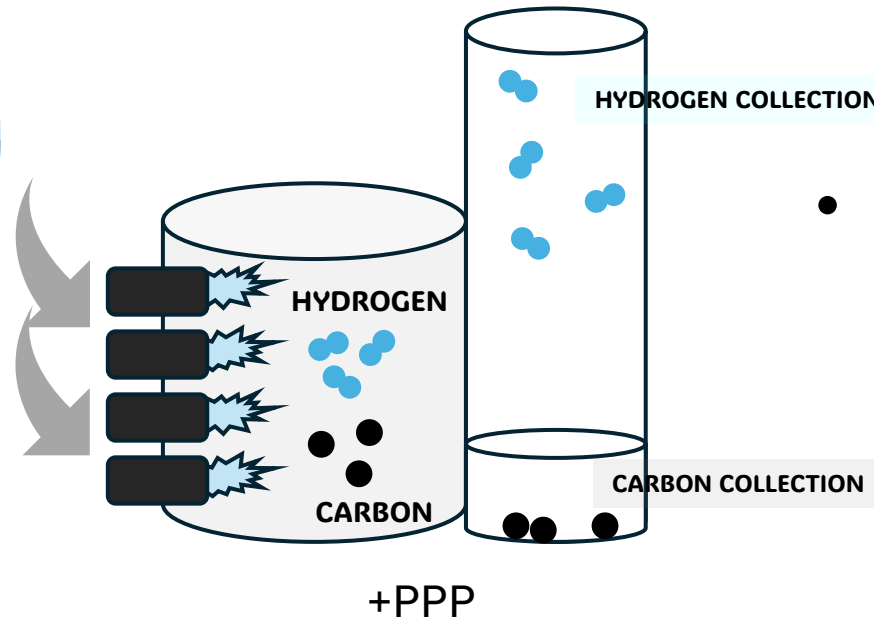


- Renewable Energy
 - wind and solar with BESS + electrolysers
 - grid connection for offtake of curtailed wind

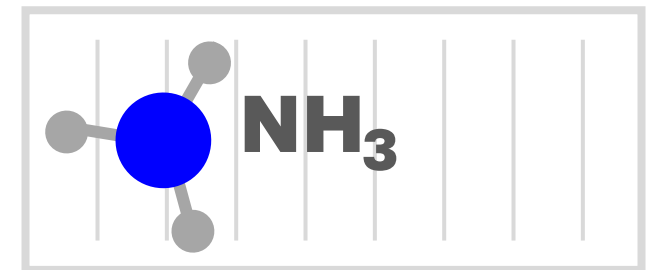


= GREEN, PURE HYDROGEN

- TPE
 - from Natural Gas & BioGas

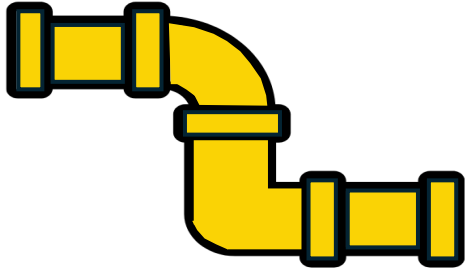


- Cracking Green Ammonia
(supplied from Scottish production)



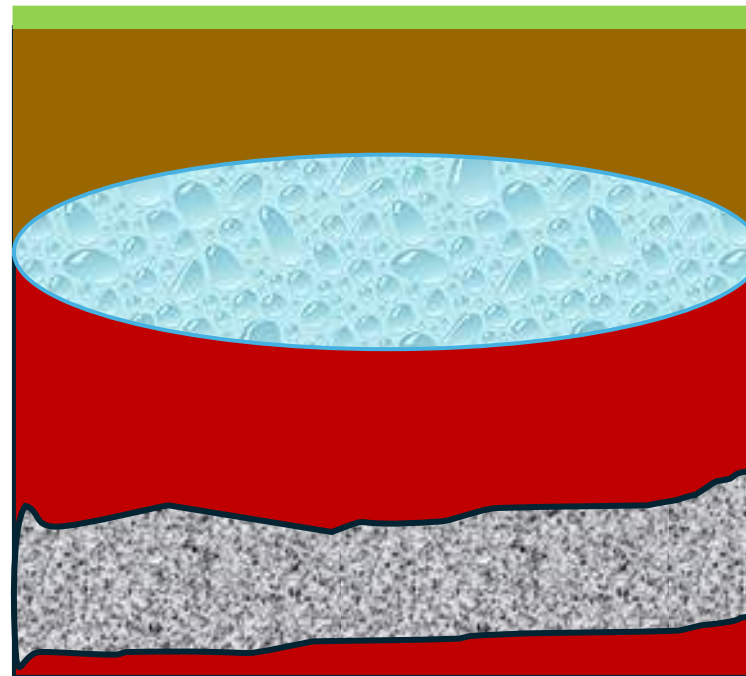
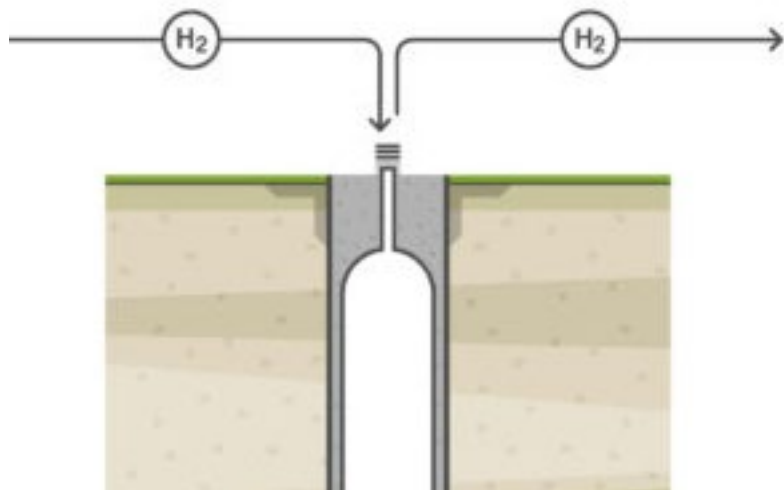
Storage of Green Hydrogen

- Linepack



- Geological Storage (potential)
 - aquifers (TRL 4)
 - coal seams (TRL 3)

- Flexitank storage (in ground TRL 5)

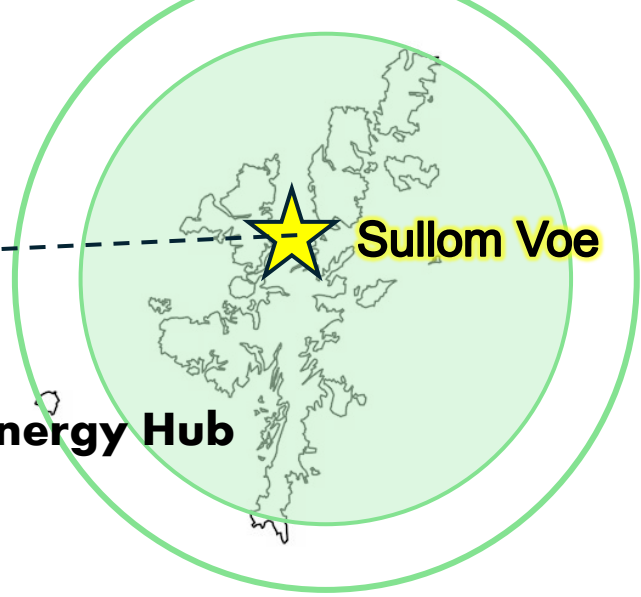


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- Ammonia Tanks (proven TRL 9)



Storage – Green Ammonia



Statkraft Shetland Hydrogen Project for production of **green ammonia**

2.8GW offshore wind and 400MW of electrolytic capacity producing 350,000+tonnes green ammonia annually (2028-2030)



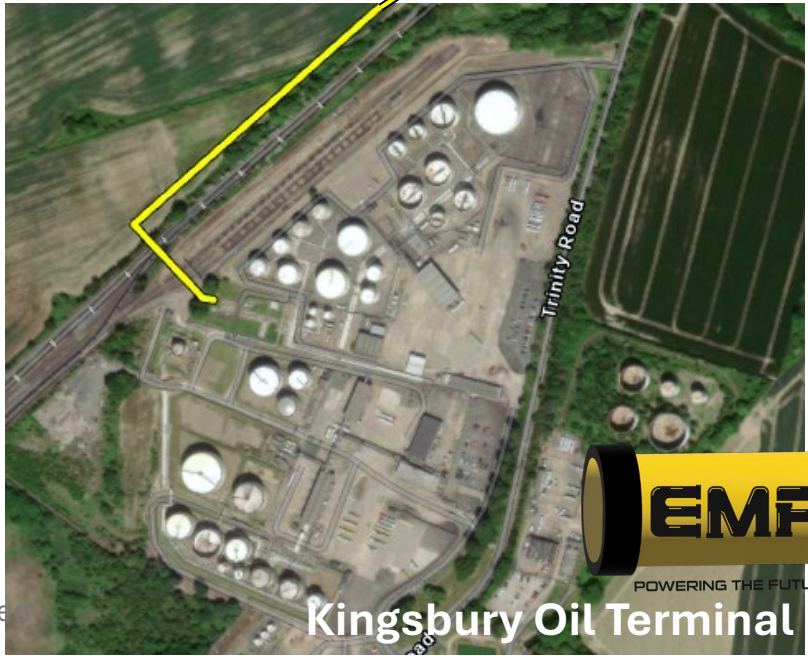
bulk liquid storage tanks

The **Stanlow Terminals** are positioning themselves as a sustainable energy hub, which includes developing supply chains and infrastructure that could utilize future rail freight services.

From Scotland



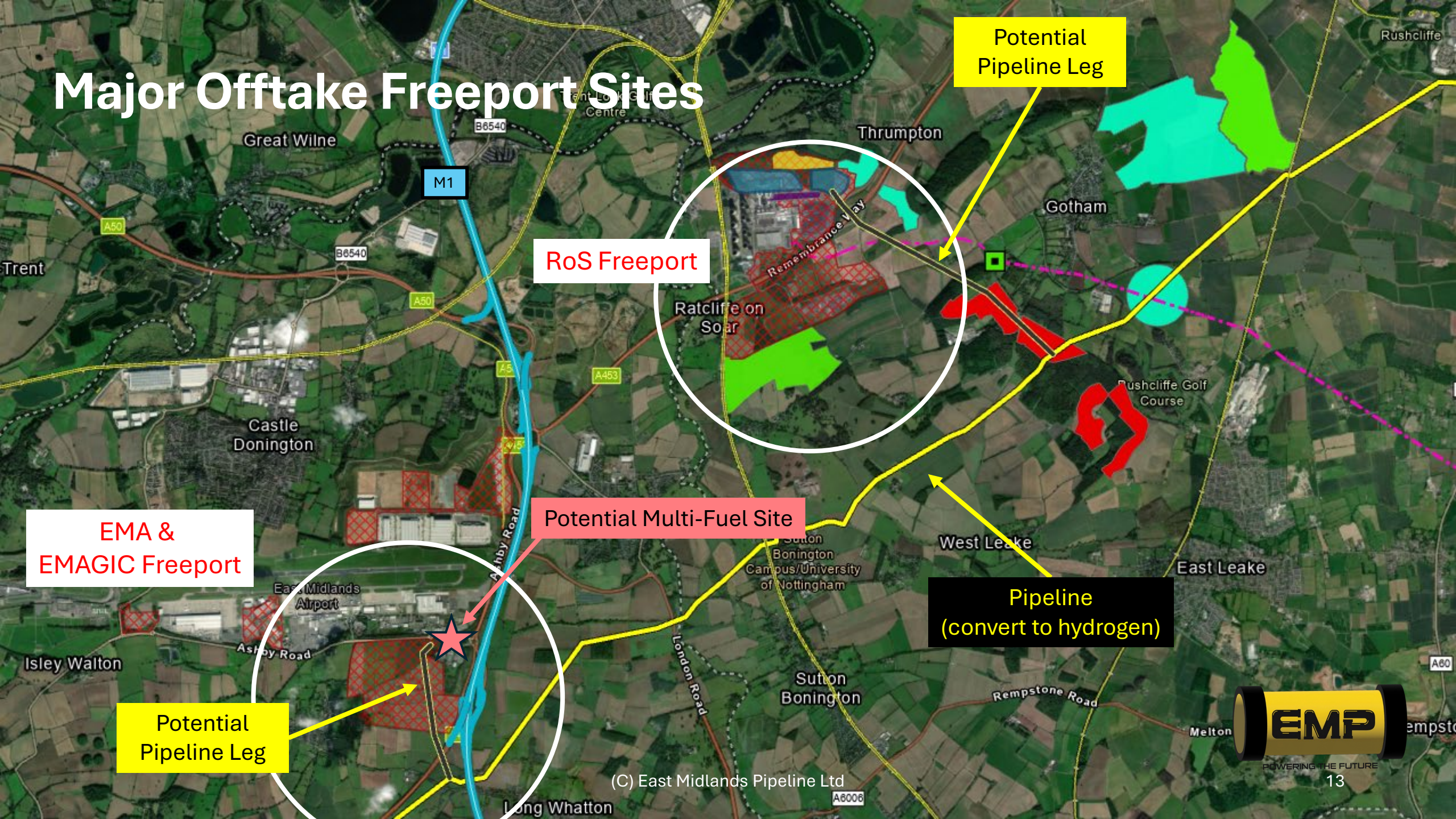
- **nr. Kingsbury**
- **Ruddington & Colwick & Ratcliffe on Soar Freeport**



Kingsbury Oil Terminal

(C) East Midlands Pipeline - not to be reproduced

Major Offtake Freeport Sites



Potential Pipeline Leg

RoS Freeport

EMA & EMAGIC Freeport

Potential Multi-Fuel Site

Pipeline (convert to hydrogen)

Potential Pipeline Leg

(C) East Midlands Pipeline Ltd



**Research,
Innovation,
Training**

Potential Pipeline Leg
*(remove corner and facilitate
green Hydrogen supply to campus)*

Potential Site for
Hydrogen Innovation Centre

Existing Pipeline
(convert to hydrogen)

Sutton Bonnington Campus of UoN

Hydrogen Blending and Scale Up Operation

*East Midlands Pipeline aims to be first fully operational **GREEN** Hydrogen pipeline in UK*

- Blueprint for the UK
- NTS
- Key Transportation & Storage and Blending Legislation





East Midlands Pipeline

deborah@empipeline.co.uk

Directory of Strategy & Business Development

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