

# Introduction to East Midlands Hydrogen

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**D2N2 & East Midlands Hydrogen**

# What is East Midlands Hydrogen?

## A partnership who will:

- 1 **Support** bids for investment in low carbon **hydrogen production and storage**
- 2 **Drive** the development of **hydrogen distribution infrastructure**
- 3 **Encourage fuel switching to hydrogen** by industrial and commercial organisations
- 4 **Ensure** that hydrogen is accounted for in **Local Area Energy Planning**
- 5 **Grow** our hydrogen **education and skills** offering
- 6 **Accelerate** hydrogen freight decarbonisation
- 7 **Promote** and support **hydrogen technology companies** and regional innovation

# Who?

## Founding members

EAST MIDLANDS HYDROGEN IS SUPPORTED BY:

UPSTREAM  
Hydrogen Producers



MIDSTREAM  
Transportation and Storage

DOWNSTREAM  
Prospective Hydrogen Users



LOCAL STAKEHOLDERS  
Regional and Local Partners



## New members

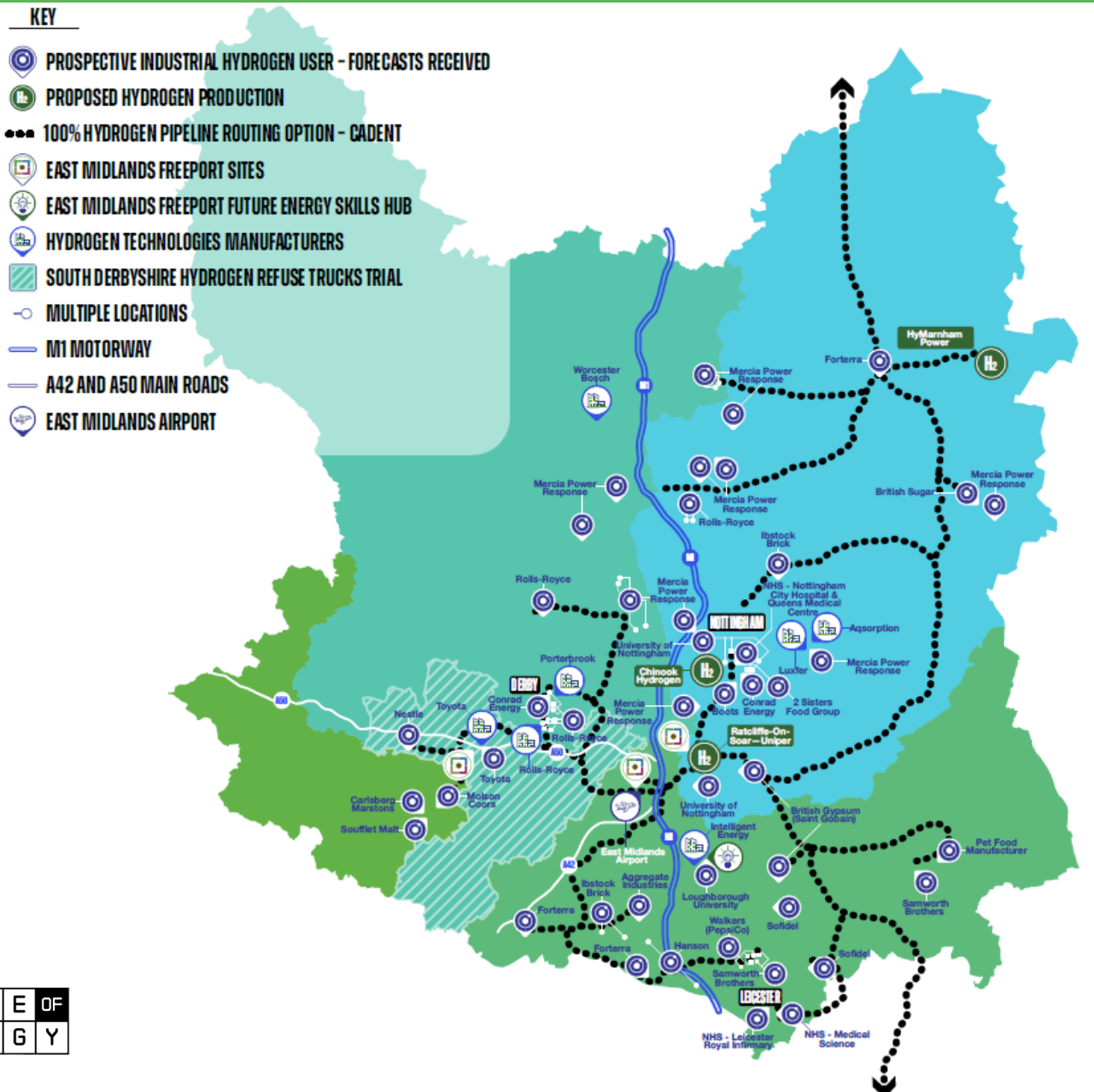


# Why here and now?

- Growing demand, actual & potential, for hydrogen in the region
- Clusters of industry that cannot fully electrify, eg bricks, automotive, building materials, food & drink
- Huge potential hydrogen production forecasts, leading up to multi-gigawatt scale by 2050
- Unique strategic partners:



EAST MIDLANDS										
I	N	S	T	I	T	U	T	E	O	F
T	E	C	H	N	O	L	O	G	Y	



# Industrial demand

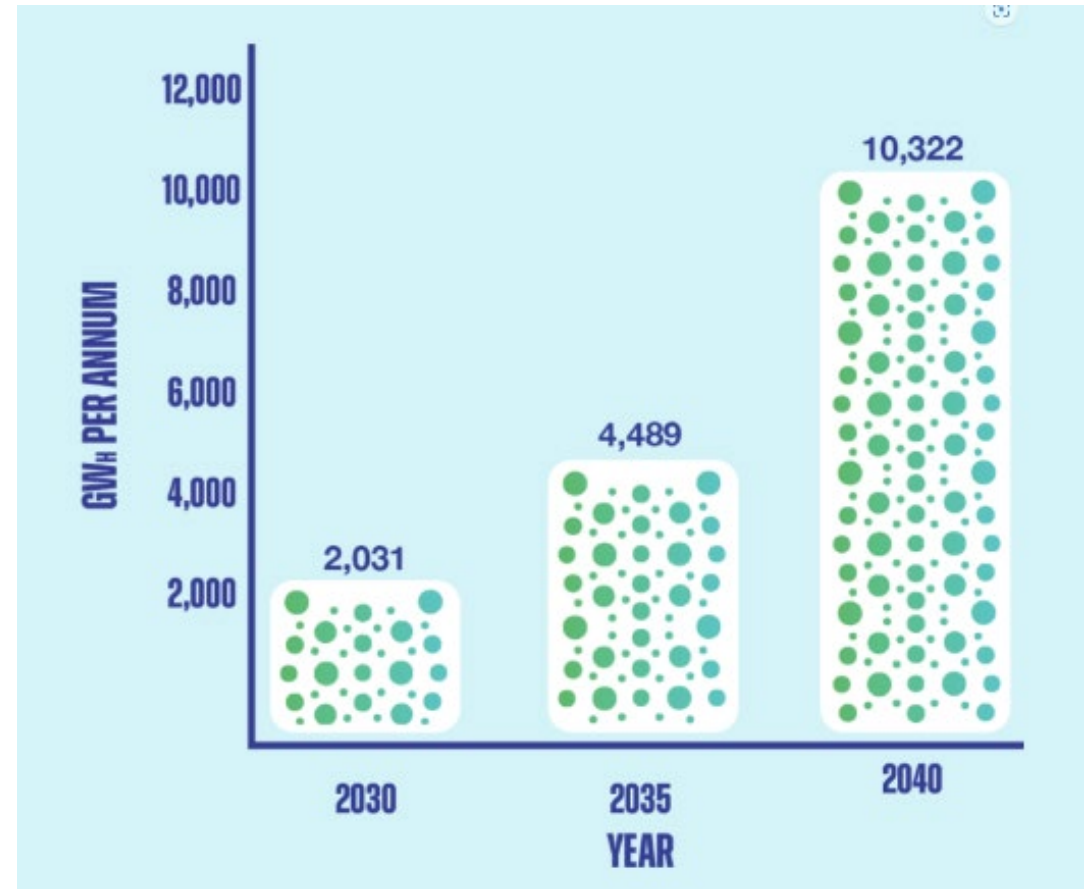
Hydrogen forecasts received by Cadent from:



**20 COMPANIES**



**70 SITES**



# Production capacity

**Hydrogen forecasts received to date total:**



**650MW PRODUCTION  
CAPACITY**

**GW-SCALE PRODUCTION CAPACITY POSSIBLE BY 2050,  
MAKING USE OF EX-COAL-FIRED POWER STATION SITES  
AND 'MEGAWATT VALLEY' ELECTRICITY INFRASTRUCTURE**



# Economic Impact

Development of a full hydrogen supply chain the East Midlands leads to:



**£10 BILLION**  
**GROSS VALUE ADDED**



**110,000**  
**JOBS CREATED OR PROTECTED**

# Environmental benefits

Fuel switching alone would abate:



**1.9 MILLION TONNES  
OF CO2 PER YEAR...**

**... WHICH IS EQUIVALENT TO  
NATURAL GAS CONSUMED BY  
860,000 HOMES EVERY YEAR**







**East**  
Midlands  
Hydrogen

**Thank You**