



Creating a new hydrogen economy in the Midlands

Faye McAnulla, Programme Director,
ERA & HyDEX



Lead academic partners



Our Industrial Advisory Group



BAXI

Baxi
Jeff House

BRITISH
ceramic
CONFEDERATION

British Ceramic
Confederation (BCC)
Andrew McDermott

WORCESTER
BOSCH

Bosch and Worcester
Bosch
Martyn Bridges

Cadent
Your Gas Network

Cadent Gas
Kelly Manders

MIRA

Horiba MIRA
Declan Allen
Sean Crespin

HS2

HS2
Neil Waite
Andrea Davidson
ShitalShirsat Rohekar

Intelligent Energy

Intelligent Energy
Dennis Hayter

ITM POWER

ITM Motive
Duncan Yellen

cenex

Cenex
Keith Budden

centrica

Centrica
Chris Wright
William Mezzullo

D2N2

D2N2 & Wider LEPs
Network
Will Morlidge

edf
ENERGY

EDF
Rebecca Rosling

JCB

JCB
Tom Beamish
Tim Burnhope

MIDLANDS ENGINE

Midlands Energy Hub
Michael Gallagher

MIDLANDS ENGINE

Midlands Engine
Jacob Vivian
Roger Mendonca

national express

National Express
Richard Ball
David Bradford

Toyota

Toyota
Jon Hunt

enfinium

Enfinium
Nick Minnitt

EQUANS

Equans
Chris O'Connor

FAUN **ZOELLER**

FAUN Zoeller
Simon Hyde

GeoPura

Geopura
Ian Wilkinson

Progressive Energy

Progressive Energy
Chris Manson-Whitton
Tommy Isaac

SIEMENS

Siemens
Paul Beasley
Wesley Tivnen
Zac Cesaro

sse

SSE
Maria Brucci

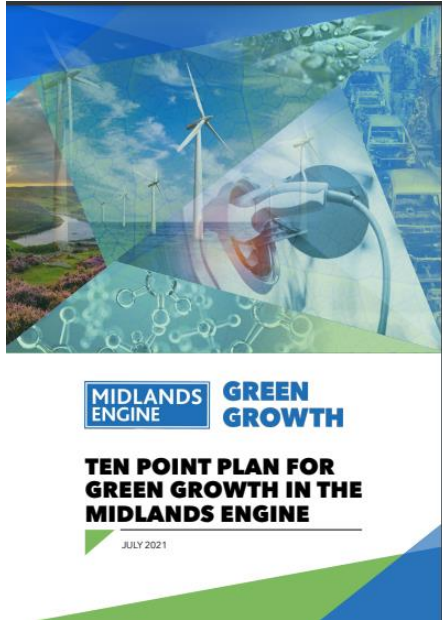
Transport for West Midlands

TFWM/WMCA
Steve Hayes

uni per

Uniper
Thomas Haslam
Jon Filthey
Luke Banner-Martin

Regional Hydrogen Strategy



Midlands USPs:

- Transport
- Heating
- Manufacturing





What applications do we want to use hydrogen for in the Midlands?

- Heating; CHP replacement; industrial fuel switching
- HGVs; buses; rail; aviation?
- Agriculture and construction (vehicles, mobile generators)
- Energy storage

-How much hydrogen do we need (and by when)?

Key Questions for the Region (2)



What sources of hydrogen will “supply” the Midlands?

- Renewable energy and electrolysis (in/out of region)
- NH3 sources (e.g. NW and internationally) and transportation. NH3 cracking
- Pipeline/blending
- Production from oil (with CCUS?) and imported to region
- Produced from “new” nuclear – in or out of the region

What hydrogen storage options are there?

- salt caverns? E.g. Cheshire; sandstone; as ammonia; pressurised tanks

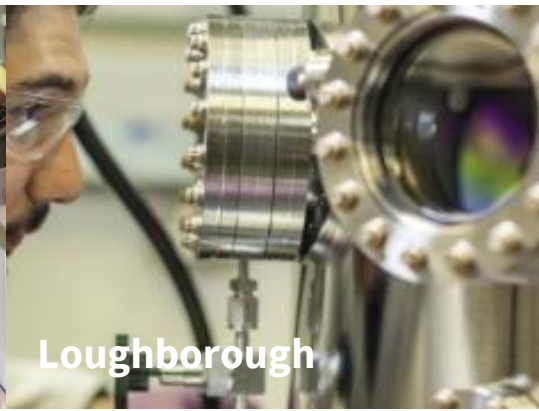
What facilities is it useful to have in the region? R&D, test facilities? Demonstration facilities for industry; automotive test facilities; agriculture demonstration; construction demonstration

HyDEX: Demonstrators



Our demonstrator facilities can offer:

- Visits by external parties with interests in hydrogen
- Opportunity to consult with our experts who developed the sites
- Demonstration of different parts of the sector
- Testing and validation
- Support CPD
- We are open for business (...and the public and the third sector)!!



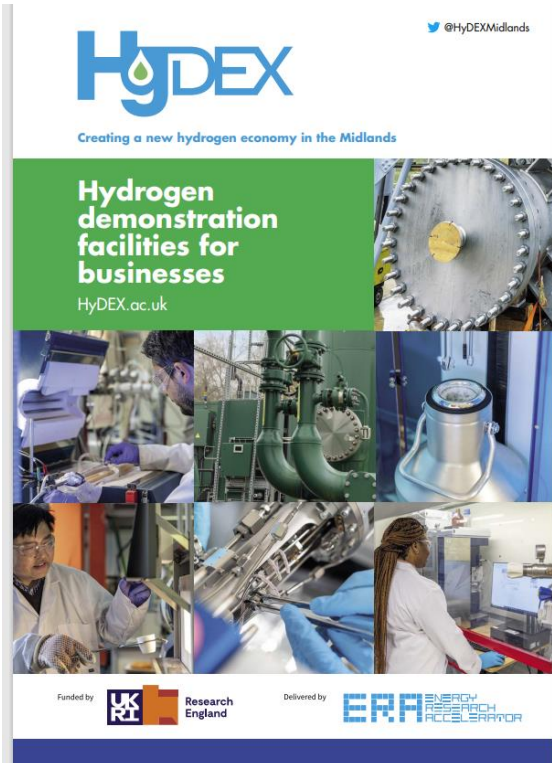
HyDEX: Demonstrators - Birmingham



HyDEX: Demonstrators – Keele



Accessing Demonstrators



- Opportunities to tour and engage with our academics and partners
- Contact details for each demonstrator



← Demonstrators



Business Support →

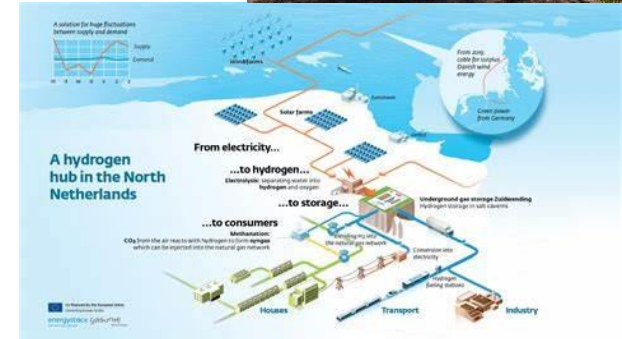
Upcoming plans:



- **Policy**
 - Develop a series of targeted communications for LAs (benefits of hydrogen and steps they can take to make the most of hydrogen)
 - With selected LAs develop bespoke activity eg workshops
- **Developing a business case for hydrogen rail in the region**
- **Develop a Agriculture/construction demonstrator**
- **Make the Midlands the centre for green hydrogen production methods**
- **Hydrogen valley proposal**
- **Major research centre proposal**
- **Educational Programme**

Get involved

- HyDEX and EBRI event: [The future of Low Carbon Hydrogen in the Midlands](#) 27 March at Aston Conference centre
- Hydrogen Valley Cooperation Workshop, 28 March
- Hydrogen in Caverns: 29 March, Geological Society, London
- Germany and Groningen visit, w/c 24th April
- Hydrogen for Agriculture and Construction event – May at JCB.
- EU Policy Event in Brussels (Nov 2023)



Meet the Team



Sarah Gomes
Skills Development Officer



Anu Khandelwal
HyDEX



Nick King
Marketing and Communications
Manager



Katherine Mycock
Business Engagement and Impact
Officer



Ben Peng
International Partnerships and
Knowledge Exchange Manager



Suzanne Robey
Project Manager



Thank you

www.hydex.ac.uk



Lead academic
partners

