



# MIDLANDS **GREEN** INNOVATION NETWORK

Together for net-zero

#mgin #greeninnovation

## WELCOME TO THE LAUNCH

Thursday 15 December 2022  
Ingenuity Centre  
University of Nottingham

Delivery partners





MIDLANDS  
**GREEN**  
INNOVATION  
NETWORK

Together for net-zero

**NETWORK  
LAUNCH**

Thursday 15 December  
Ingenuity Centre  
University of Nottingham

# AGENDA

- 11.30am Roger Mendonca, Midlands Engine**  
The Midlands Engine and launch of the Midlands Green innovation Network and Midlands Green Innovation report
- 11.45am Faye McAnulla, Energy Research Accelerator**  
How businesses can work with universities
- 12.00pm Natalie Gasson-McKinley, Federation of Small Businesses**  
Introduction to work and update on the Local Skills Improvement Plan, and how businesses can get involved
- 12.10pm Innovate to Thrive - Paul Yeomans, Knowledge Transfer Partnerships Manager, University of Nottingham**
- 12.40pm Q&A**
- 1pm Lunch and networking**

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ENGINE**

**ERA** ENERGY  
RESEARCH  
ACCELERATOR

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# Roger Mendonca

Chief Executive  
The Midlands Engine



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# The Midlands Engine



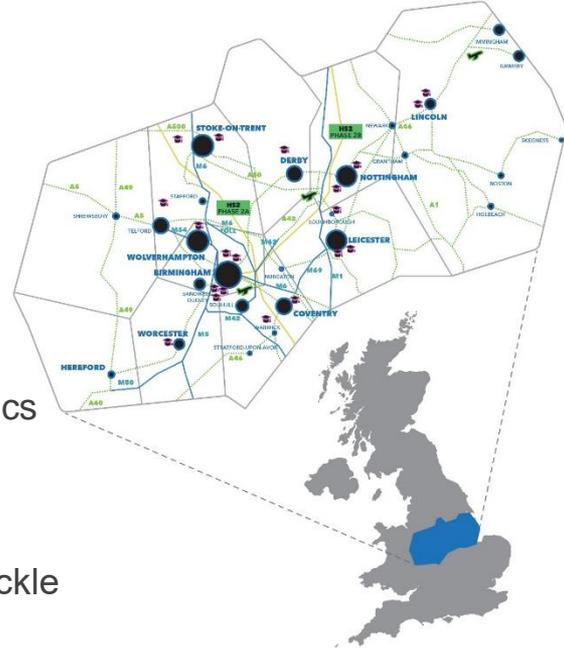
- 11m people
- 100+ Parliamentarians
- 800,000 Businesses
- 23 Upper-Tier Local Authorities
- 1 Combined Authority
- 20 Universities
- 9 Local Enterprise Partnerships
- 100s NGOs

**Advocacy** - working for our region, with Government

**Influencing** - shaping policy and investment to benefit our region

**Convening** - driving change through collective action in partnership

- Identify and capitalise on major economic opportunities across Midlands geography.
- Connect our region’s businesses, parliamentarians, local authorities, academics and more and complement their activity to generate added value.
- Enable partner’s to deliver initiatives that tackle what really matters in our region.



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# Ten Point Plan for Green Growth

- First pan-regional green growth action plan in the UK
- A unified pan regional vision and action plan for achieving Midlands net zero
- Over 300 partner voices across more than 130 organisations

**1 GREEN BUILDINGS**  
Improve energy efficiency and decarbonise heat

**2 NET ZERO TRANSPORT**  
Lead the transition to reduce emissions

**3 NATURE'S RECOVERY**  
Protected and productive natural assets

**4 BLUE-GREEN PLACES**  
Where people and nature flourish

**5 LOW CARBON HYDROGEN**  
Pioneer, commercialise and deliver hydrogen solutions

**6 CLEAN ENERGY**  
Sustainable energy generation and storage

**7 SMART ENERGY**  
Develop digital infrastructure to decarbonise

**8 GREEN INNOVATION**  
Green design and making for economic growth

**9 ENERGY WORKFORCE**  
Highly skilled, inclusive and diverse

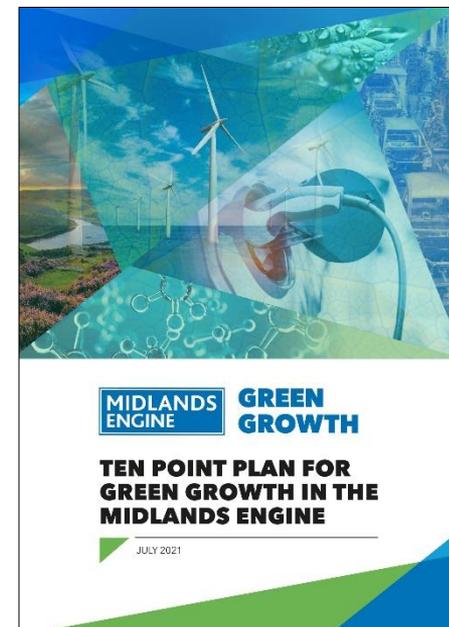
**10 GREEN FINANCE**  
Invest and enable to unlock opportunity

**8 GREEN INNOVATION**  
Green design and making for economic growth

The shift to low carbon is a huge opportunity for business, industry and job creation in the Midlands. We will foster a rich innovation environment, supporting our world-leading inventors, entrepreneurs, leaders and researchers to develop and commercialise new ideas for the economic good of our region and nation, and for wider societal benefit. By investing now in next generation manufacturing processes and resilient supply chains, we can minimise environmental impact and resource use.

**AIMS**

- ✓ Reduce greenhouse gas emissions
- ✓ Support investment in decarbonisation
- ✓ Reduce energy costs
- ✓ Drive economic growth
- ✓ Establish the UK and Midlands as a centre of excellence
- ✓ Futureproof business strategies



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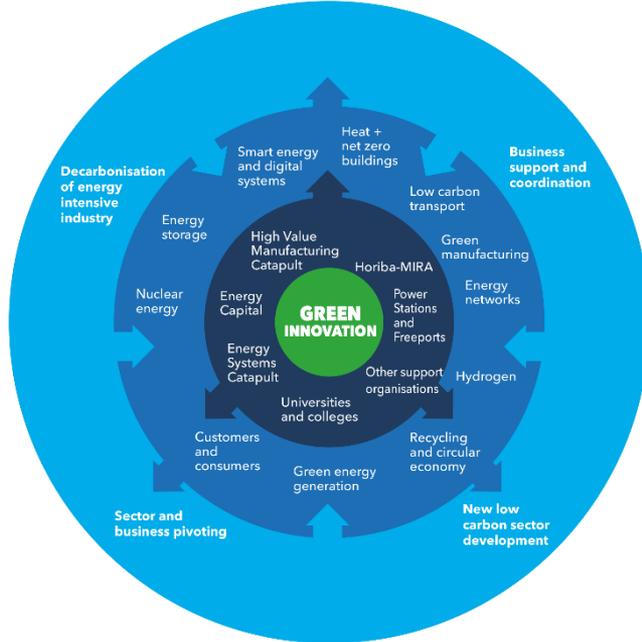
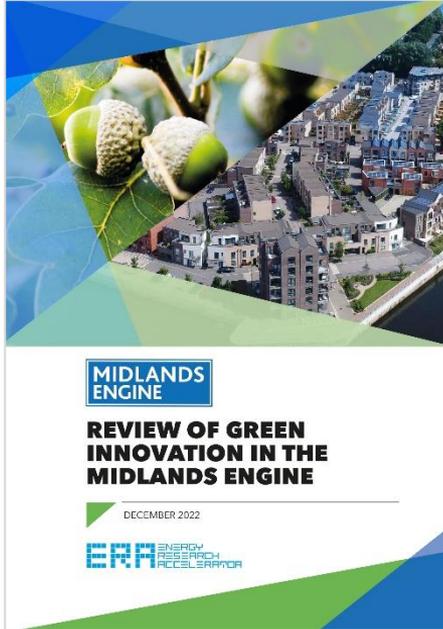
# Innovation in the Midlands



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# Midlands Green Innovation Report



<b>Smart energy and digital systems</b>				<b>Low carbon transport</b>	
Smart devices	Smart buildings	Smart networks	Carbon and cost optimisation	Electric vehicles and batteries	
Integrated sensors and forecasting		Smart tariffs and energy use		Hydrogen heavy vehicles and trains	
<b>Nuclear energy</b>			<b>Energy storage</b>		
SMR	AMR	Fusion	Electrical storage	Thermal storage	
GDF	Site development		Hydrogen storage	Systems integration	
<b>Customers and consumers</b>					
Heat as a service		Smart tariffs	Energy efficiency	Community energy	
Green mobility		Green jobs	Living labs		
<b>Heat &amp; net zero buildings</b>					
Heat pumps	District heating		<b>Green energy manufacturing</b>		
Hydrogen boilers	Thermal efficiency	Electrolysers and fuel cells	Batteries and vehicles		Wind turbines
Housing retrofit	Net zero construction	Green construction	Heat pumps and boilers	Nuclear components	
<b>Green energy generation</b>			<b>Energy networks</b>		
Solar	Onshore and offshore wind		Hydrogen and biogas distribution		
Green gas combustion	Geothermal and mine water		Electric grid reinforcement		
			Smart electric and heat grids		
<b>Direct air capture and CCUS</b>					
Direct air capture technologies	Carbon capture and utilisation		Carbon offsetting		
CO <sub>2</sub> storage	Carbon integration into materials		Vertical farms and agriculture		

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# Midlands Green Innovation Opportunities



EMERGE Energy-from-Waste Plant (Image: Uniper)



West Burton STEP Fusion Site (Image: UKAEA)



Small Modular Reactor (Image: Rolls-Royce)



Artist's Impression of West Midlands Gigafactory



National Brownfield Institute (Image: University of Wolverhampton)



West Midlands Regional Energy System Operator (RESO) Project (Image: Electron)



MIRA's proposed Hydrogen Technology Hub based on the A5 in Nuneaton

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# Midlands Green Innovation Network



## 1. Coordinate green innovation activities across the region and create a platform to showcase examples of green innovation.

**Current status:** limited cross-region engagement on specific areas of innovation across the region (noting West Midlands Innovation Accelerator programme focused on the West Midlands).

**Proposal:** Provide a knowledge exchange forum to support green innovation focused organisations and connect them with researchers, funders and other service providers in the region.

- Series of events/activities run by the network
- Support groups identifying and applying for innovation funding
- Showcase green innovation activities taking place in the region
- Annual Awards event to promote activity

## 3. Develop an advisory and support programme to enable businesses to pivot and grow in the cleantech sector

**Current status:** There are a number of programmes in place across the region (with ERDF supported projects ending in 2023), but these tend to be focused on specific areas or technologies. Future Shared Prosperity Fund funding likely to be limited in scale.

### Proposal:

- Bring together organisations that can provide support (such as reskilling, manufacturing advice, test facilities, business finance, supply chains) into a regional green innovation offering able to provide support to organisations either establishing or growing in the sector.
- Seek funding for a focused programme around green innovation which can provide tailored acceleration and growth support to high potential businesses active in the region.
- Establish green innovation co-creation spaces to enable collaboration and acceleration of green innovation in the region.

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Thank you

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# Introducing M-GIN

15<sup>th</sup> December 2022

Faye McAnulla

Programme Director, ERA

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- 1 Introduction to ERA
- 2 Overview of M-GIN
- 3 The M-GIN Programme



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# ERA facts and figures

**£120m**

**CO-INVESTMENT  
COMMITTED**  
From over  
**40 INDUSTRIAL  
PARTNERS**

**£60m**

Capital  
funding via  
**INNOVATE UK**

**9**

Key Midlands  
partners

INVESTING IN OVER

**30 new  
R&D  
facilities**

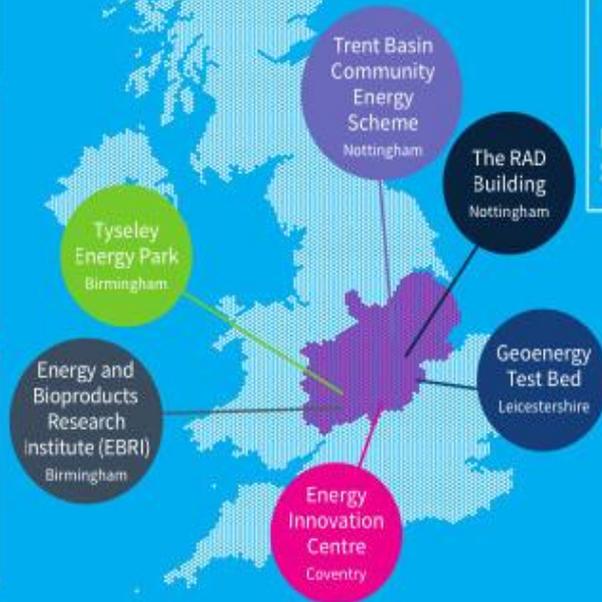
More than  
**400**

**ACADEMICS**

Over

**1,000**

**RESEARCHERS**



STRATEGIC  
FOCUS



Energy  
Transformation



End Use  
Energy Demand



Energy  
Storage



Energy  
Integration

SKILLS EXPERTISE

- **£2.5m** pump priming for an ERA Doctoral Training Partnership
- **3 cohorts** established
- **£2.5m** addressing future industry needs through challenge-based PhD projects
- Developing **future leaders** in low carbon energy

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Delivered by **MIDLANDS INNOVATION**

Funded by **UKRI** Innovate UK

**Aston University**  
BIRMINGHAM UK

**UNIVERSITY OF BIRMINGHAM**

**Cranfield University**

**Keele University**

**UNIVERSITY OF LEICESTER**

**Loughborough University**

**University of Nottingham**  
UK | CHINA | MALAYSIA

**17 WARWICK**  
THE UNIVERSITY OF WARWICK

**British Geological Survey**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

# TEN POINT PLAN FOR GREEN GROWTH IN THE MIDLANDS ENGINE

## PLACES



### 1 GREEN BUILDINGS

Improve energy efficiency and decarbonise heat



### 2 NET ZERO TRANSPORT

Lead the transition to reduce emissions



### 3 NATURE'S RECOVERY

Protected and productive natural assets



### 4 BLUE-GREEN PLACES

Where people and nature flourish

## ENERGY



### 5 LOW CARBON HYDROGEN

Pioneer, commercialise and deliver hydrogen solutions



### 6 CLEAN ENERGY

Sustainable energy generation and storage



### 7 SMART ENERGY

Develop digital infrastructure to decarbonise

## ENABLERS



### 8 GREEN INNOVATION

Green design and making for economic growth



### 9 ENERGY WORKFORCE

Highly skilled, inclusive and diverse



### 10 GREEN FINANCE

Invest and enable to unlock opportunity



Delivered by



Funded by





Funded by



Research England

Delivered by



Supported by



Regional focus, national impact, internationally networked

- Access to large scale demonstrator and test facilities
- Support for technology development and R&D
- Support for IP development and commercialisation
- Development of hydrogen skills and expertise in businesses
- Civic engagement and policy activities to build understanding
- Development of access to international markets and inward investment



HEATING



PRODUCTION

TRANSPORT



ERA UNIVERSITY PARTNERS



MANUFACTURING



REGIONAL POLICY & SKILLS



# HyDEX: Regional Hydrogen Initiatives



• Objective: Develop a set of projects/plans for the region which help build the region’s hydrogen capabilities & support emissions reduction, growth & economic development.

- Rail Demonstrator
  - Ceramics/Heavy Industry Fuel Switching
  - Truck and Bus Demonstrator
  - Refuelling Stations Network
  - Low-Cost Green Hydrogen Production
- R&D facilities:
  - Hydrogen Supply Chain, Vehicle and Fuel Cell Production
  - Blending and Distribution
  - Boiler Manufacturing
  - Agriculture and Construction Demonstrator
  - Hydrogen Skills

## Next Steps

- HyDEX will support the development of stakeholder groups with ideally a mix of industrial, academic and local government involvement.
- Opportunity to link these into the activities of HyDEX, ERA and the Midlands Engine.



Funded by



Lead academic partners



# Smart Energy and Twin Cities

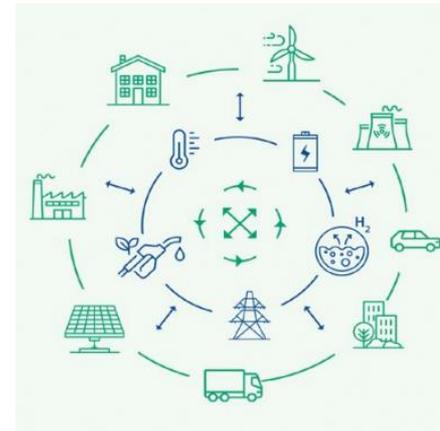


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**SMART ENERGY -  
AN ENERGY SYSTEM  
FOR THE 21<sup>ST</sup> CENTURY**

**SIEMENS**  UNIVERSITY OF BIRMINGHAM  ERA ENERGY RESEARCH ACCELERATOR  
All for the betterment of energy consumers

   BIRMINGHAM  
ENERGY INSTITUTE



- 1: Develop a definition of Smart Energy, or Smart Energy System, which can be applied across the region.
- 2: Identify what Smart Energy Systems are in place in the Midlands Engine Region.
- 3: Explore the challenges related to Smart Energy deployment, including any potential barriers.
- 4: Evaluate the economic impacts of a Smart Energy System.

# Midlands Nuclear Review for Midlands Engine

To be released in January. Key recommendations on:

- **Midlands Nuclear Forum**
- **New nuclear generation**
- **Fusion energy sector**
- **Nuclear manufacturing sites**
- **Siting of the UK's long-term Geological Disposal Facility**
- **Nuclear skills to meet Mids and UK demand.**
- **Nuclear test, validation and R&D facilities.**



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# Green Innovation Review



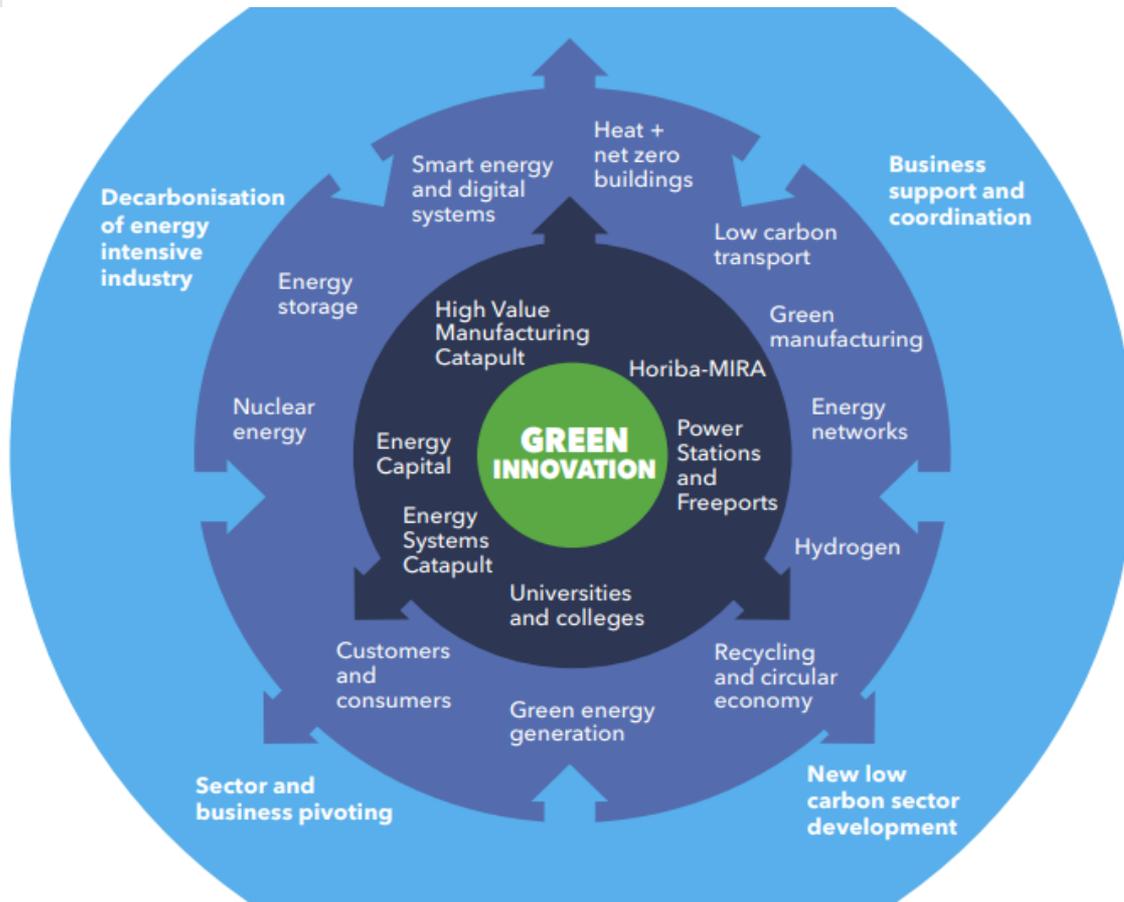
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RESEARCH  
ACCELERATOR

## REVIEW OF GREEN INNOVATION IN THE MIDLANDS ENGINE

A report for the Midlands Engine  
by the Energy Research Accelerator (ERA)

NOVEMBER 2022



# Green Innovation Review

## Recommendations

1.	Coordinate green innovation activities across the region and create a platform to showcase examples of green innovation.
2.	Establish, and seek funding for, a programme to support energy intensive business to decarbonise and drive down energy costs and increase efficiency.
3.	Develop an advisory and support programme to enable businesses to pivot and grow in the cleantech sector.
4.	Support the development of funded region-wide thematic innovation programmes.
5.	Advocate for new RD&I facilities for the region.
6.	Support the development of a Net Zero Skills directory, connecting the regional skills, training and degree programmes into a Midlands Net Zero Academy.

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# Four areas requiring Innovation Support

## Decarbonisation of energy intensive industry

Low cost energy	Energy storage and energy efficiency	Clustering and symbiosis	Investment capital and finance	Switching from high to low carbon fuels
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## Business support and coordination

Access to facilities and expertise	Networking and networks	Signposting to support and programmes	Investment capital and finance	Business development programmes
Access to incubators and demonstrators				

## Sector and business pivoting

Product development support	Test and validation facilities	Training and skills development	Manufacturing support and advice	Investment capital and finance
Market awareness and minimum viable product development		Integration into supply chain	Business development programme	

## New low carbon sector development

Regional strategy and priorities	Investment prioritisation and support	Large OEM lead	Clustering and coordination	Competitor and regional advantage analysis
Coordinated skills development across all levels	Alignment with markets - market building	Coordination of supply chain development	Defined standards and verification processes	

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# The Midlands' Energy Innovation landscape

High Value Manufacturing Catapult			
Manufacturing Technology Centre (MTC)	Warwick Manufacturing Group (WVG)	Manufacturing expertise, SME support programmes	Nuclear AMRC (Derby)

Energy Systems Catapult		
Expertise in energy systems and policy	Support for local authorities and business	SME support programmes; Energy Launchpad

Universities and colleges				
Energy Research Accelerator (ERA)	Midlands Enterprise Universities	SME support programmes	R&D expertise and facilities	Skills and training

Horiba-MIRA			
Support for automotive sector	Test track and test facilities	Focus on hydrogen and electric	Innovation centre

Energy Capital				
Embedded in WMCA	Projects: NZN, RESO, Rugeley	Energy Innovation Zones	Tyseley Energy Park	Innovation Accelerator pilot

Power stations and freeports				
Freeports: East Midlands and Humber	Ratcliffe: EmERGE Energy-from-Waste Development	West Burton: STEP Fusion Plant	Rugeley: Zero Carbon Rugeley	Drakelow: Energy-from-Waste Development

Other regional innovation-support organisations				
Sustainability West Midlands	Midlands Net Zero Hub	Local Enterprise Partnerships	East Midlands Development Corporation	Midlands Connect

National organisations based outside the region

Connected Places Catapult

Nuclear AMRC (HQ in Sheffield but with R&D facility in Derby)

Offshore Wind Catapult (HQ in Glasgow but with O&M Centre of Excellence at Grimbsy)

UKRI, Innovate UK and EPSRC

National Nuclear Laboratory

National Physical Laboratory

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**MIDLANDS ENGINE**

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# Why “Midlands: Green Innovation Network?”



- Support innovation in the region – helping with the valley of death
- Act as a central sign-posting and network
- Bring together universities and innovators
- Support net zero and sustainability
- Support regional economy
- We don't have all the answers (or all the money to deliver!) but bringing people together will get us nearer



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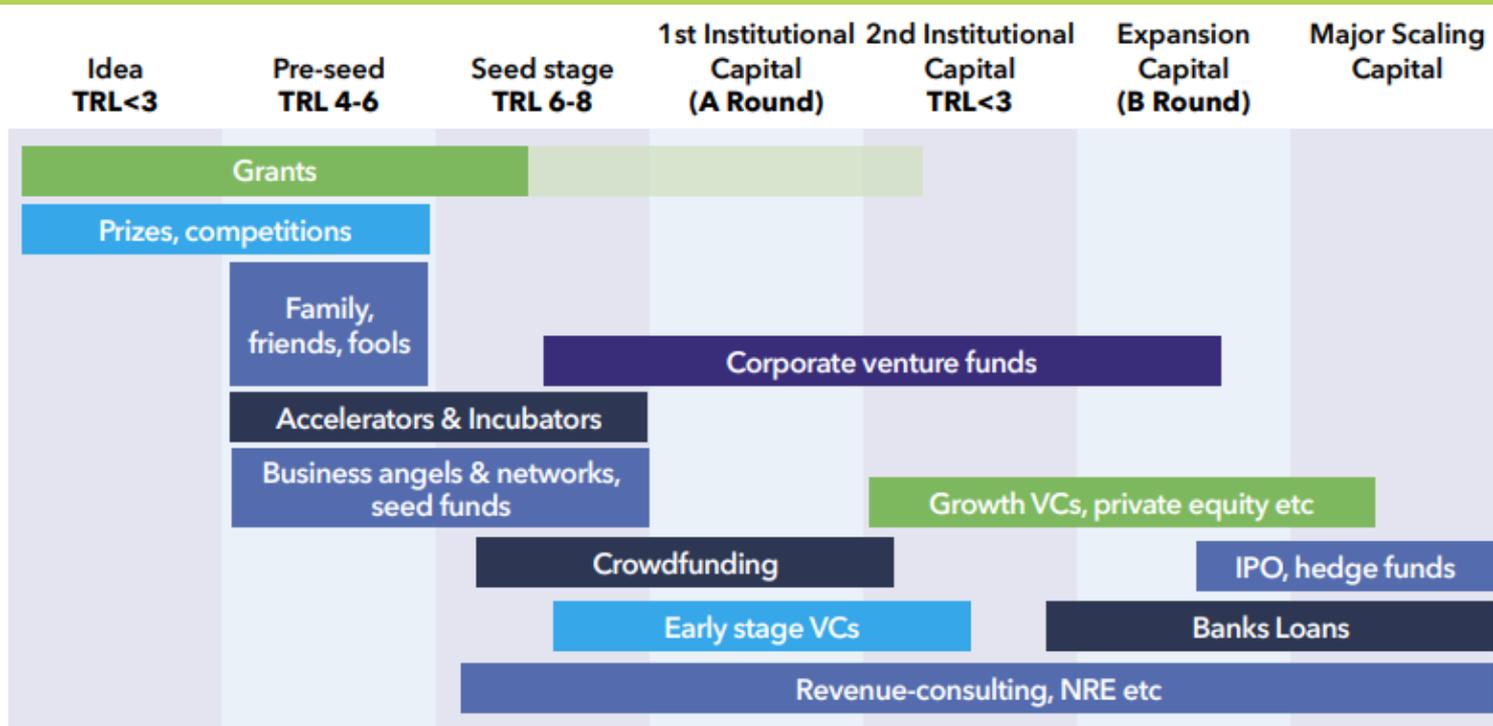


Figure 1. Sources of funding during the start-up process (Source: Octopus Investments, 2022)

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# M-GIN Programme

Date	Topic and details	Venue
15 December 2022	<b>MGIN Launch: Innovate to Thrive!</b> - hear about real-world examples of how businesses can get funding for innovation.	University of Nottingham
12 January 2023	<b>Thinking Outside the Box</b> - how to look at your problems in new ways to find innovative solutions.	Online
9 February 2023	<b>Skills for the Green Economy</b> - what skills are needed by businesses for the new green economy? Opportunity for business to feedback into the Local Skills Improvement Plan.	Derby University
2 March 2023	<b>Protecting Your Ideas</b> - learn from the UK's Intellectual Property Office how you can protect your ideas and technologies.	University of Birmingham
20 April 2023	<b>Sustainable Product Development and Design</b> - how to design sustainable products.	De Montfort University

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# Contact Us



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ERA

Twitter: @EnergyRA

Linked In: Energy Research Accelerator

[www.era.ac.uk](http://www.era.ac.uk)

HyDEX

Twitter: @HyDEXMidlands

Linked in: HyDEX

[www.HyDEX.ac.uk](http://www.HyDEX.ac.uk)

Dedicated social channels for MGIN will also launch soon – watch this space!

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**Natalie Gasson-McKinley**

Development Manager  
FSB



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A man with a beard and safety glasses on his head is smiling in a workshop. He is wearing a blue long-sleeved shirt and black overalls. He is working on a bicycle, with his hands on the handlebars. The background is filled with various tools and equipment, suggesting a busy manufacturing or repair environment.

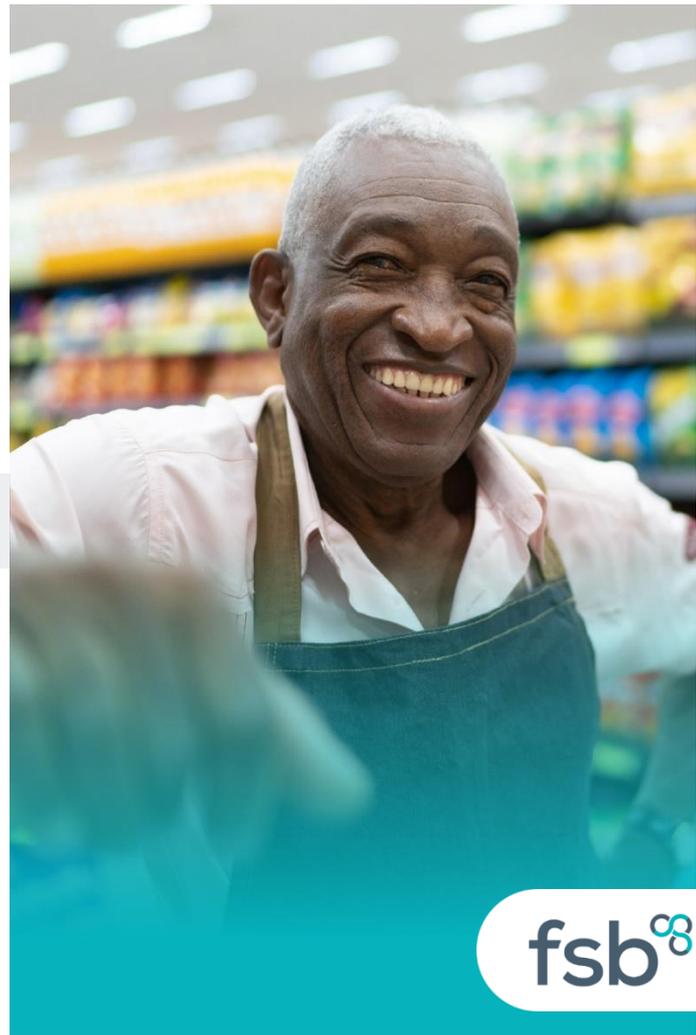
# Midlands Green Innovation Network: LSIP update

Natalie Gasson-McKinley,  
FSB Development Manager

fsb<sup>08</sup>

# Content

- Who are FSB
- FSB's role as Employer Representative Body (ERB)
- LSIP key points
- The LSIP process and final report
- Timescales
- Actions to date
- Keen to contribute?



# Who are FSB?

Established over 45 years ago, we are a non-profit making and non-party political organisation that's led by our members, for our members.

Members get an exclusive package of great value business services including advice, financial expertise, support and a powerful voice heard in governments across the UK.

FSB is also the UK's leading business campaigner, focused on delivering change which supports smaller business to grow and succeed. Our lobbying arm starts with the work of our team in Westminster which focuses on UK and English policy issues.

Further to this, our expert teams in Glasgow, Cardiff and Belfast work with governments, elected members and decision-makers in Scotland, Wales and Northern Ireland.



# FSB's role as ERB

Role of designated Employer Representative Body (ERB) is to lead development and review of a LSIP for a specific area working with employers, providers and local stakeholders.

FSB will need to:

- Plan the work to develop the LSIP;
- Engage with employers, providers and other stakeholders;
- Convene employers, providers and stakeholders so meaningful discussions can take place;
- Work with a wide range of stakeholders to develop learner demand and employer engagement;
- Work with other ERBs and sector bodies in the local area;
- Produce the LSIP report.



# LSIP key points

LSIPs will provide an agreed set of actionable priorities that employers, providers and stakeholders in a local area can get behind to drive change. LSIPs will: **place employers at the heart of local skills systems**, and facilitate direct and dynamic working arrangements between employers and providers.



# LSIP key points

Employers are at the heart of LSIPs, but other key groups include:

**Providers** — including Further Education (FE) Colleges, Sixth Form Colleges, Designated Institutions, Independent Training Providers (ITPs) and Higher Education Institutions (HEIs) that deliver English-funded post-16 technical education and training in carrying out the duties placed upon them in relation to Skills and Post-16 Education Act 2022.

**Stakeholders** — including mayoral combined authorities (MCAs), the Greater London Authority (GLA), local enterprise partnerships (LEPs) and local authorities (LAs).



# LSIP key points

- LSIPs set out the key priorities and changes needed in a local area to make technical education or training more responsive and closely aligned to local labour market needs.
- LSIPs will provide an agreed set of actionable priorities that employers, providers and stakeholders in a local area can get behind.
- Agreed priorities will be informed by evidence of unmet and future skills needs.
- LSIPs should focus on key challenges and priorities.



# LSIP key points

- Priorities should look up to three years ahead.
- Duties in respect to LSIPs have been placed upon specific providers that deliver English-funded post-16 technical education or training. Applies to Sixth Form Colleges where they deliver post-16 technical education for example T-Levels and BTECs;
- The LSIP should describe how skills, capabilities and expertise required in relation to jobs that directly contribute to or indirectly support Net Zero



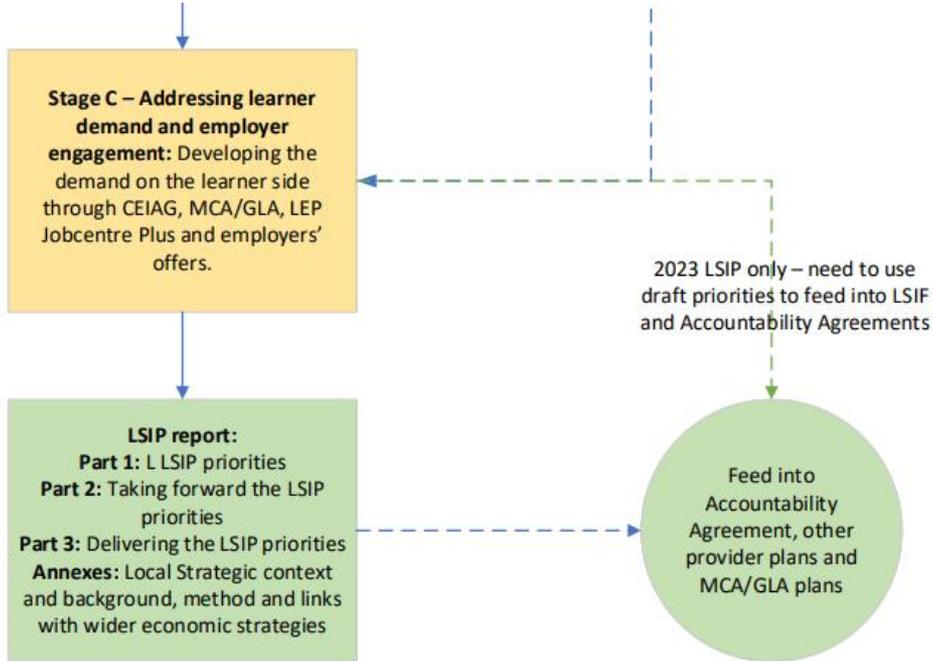
# Process



# Structure of report

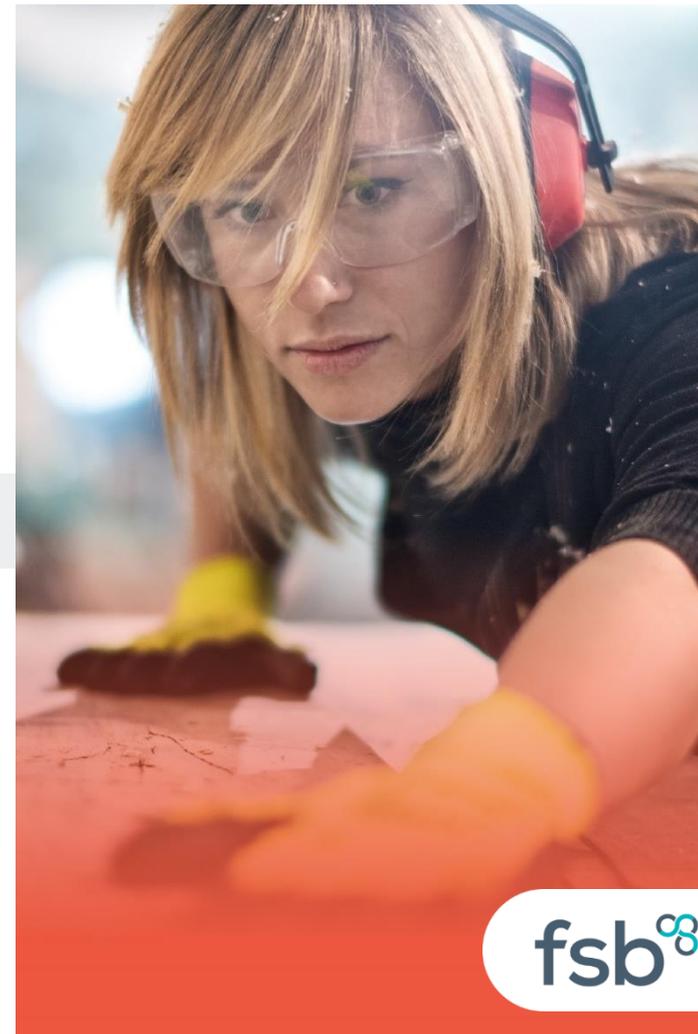


# Accountability Agreements



# Timescales

Phase	Time period	Key points
<b>Induction / Background</b>	August to September 2022	Meetings with DfE Area and Territorial Leads
<b>Preparation for project</b>	August to October 2022	Draft stakeholder engagement agreements, terms and conditions  Submit project plan and application for funding, deadline Monday 3 October
<b>Research and delivery</b>	September 2022 to February 2023	Evidence gathering and engagement with employers, providers and wider stakeholders  Co-create with providers set of actionable priorities  Six weekly progress reports to DfE
<b>Write-up</b>	March 2023 to April 2023	Draft report with engagement from stakeholders and providers
<b>Evaluation / Finalise report</b>	May 2023	Submit reports to Secretary of State (SoS) at end of May



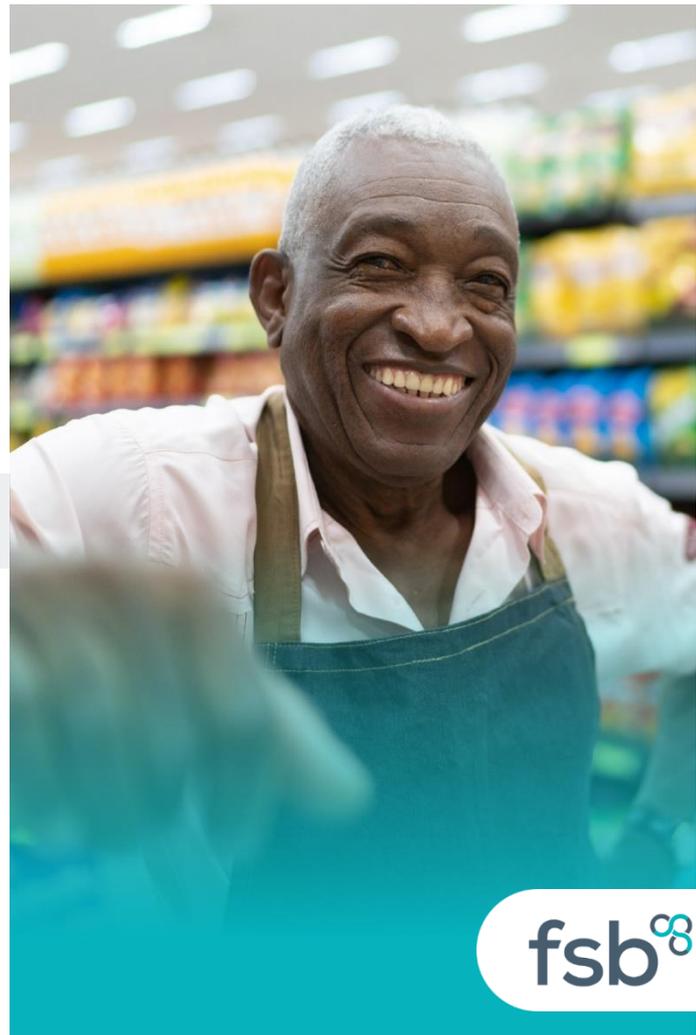
# Actions to date

- Meetings with Department for Education (DfE), ERBS, employers and providers.
- Early thinking and risk assessments around some of the key challenges e.g. size of the area; opportunities e.g. legacy – long term benefits beyond year three; and considerations e.g. MCCA devolved adult education budgets.
- Discussions with D2N2 LEP on available data, joining up with D2N2's People and Skills Board and B6 Group.
- Meeting with MCCA representatives.
- Stakeholder mapping to identify key contributors to overarching LSIP Steering Group. Three meetings have now taken place.
- Data collection: what analysis and evidence is already out there? For example, D2N2 Skills Report (January 2022).
- Critical path and key dates noted.



# Scope

In defining the scope of the LSIP, ERBs need to be clear about where they can add most value. For example, drawing on existing data and analysis, **building on and joining up with specific sectoral skills initiatives** and filling gaps by **amplifying the voice of those employers or sectors that most struggle to be heard**. They may also provide a **coherent articulation of cross-cutting issues such as low carbon, digitalisation and essential and transferable skills** affecting businesses in all sectors. This will help ensure LSIPs support a broader range of businesses, while avoiding asking ERBs to do the impossible task of trying to cover everything.



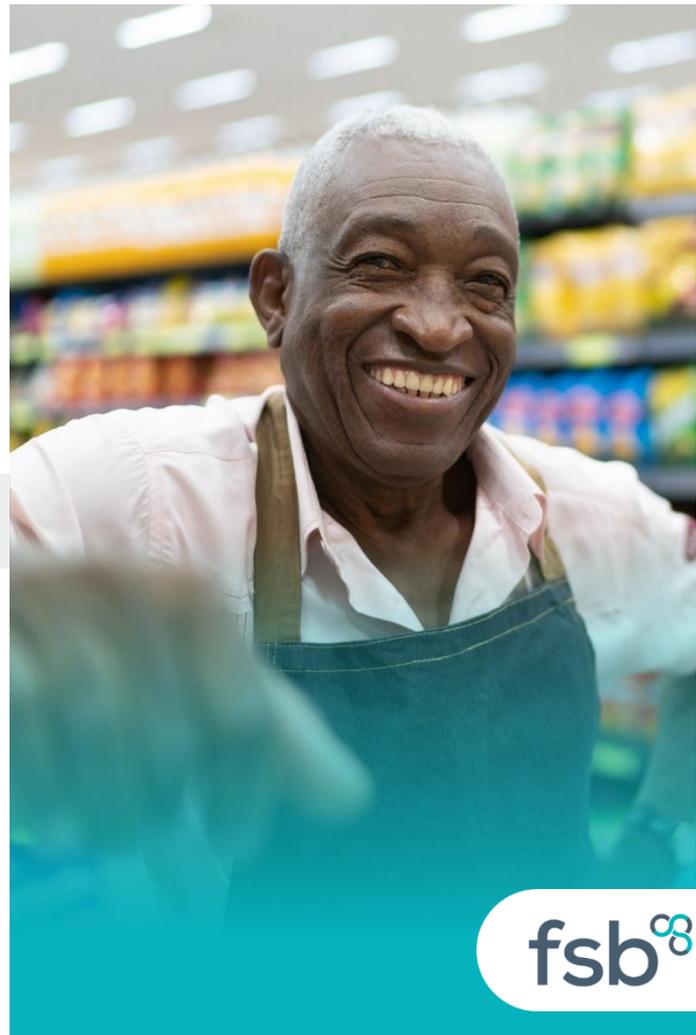
# Scope

## Phase one

Focus on cross cutting issues.

## Phase two

Understanding cross cutting issues across place, to better understand place based synergies and differences.



# Keen to contribute?

- Flag or share key reports that will help shape our thinking.
- Indicate if you would be interested in participating online surveys and telephone consultations.
- Indicate if you can help expand our employer reach.
- Attend one of our focus groups in the New Year.



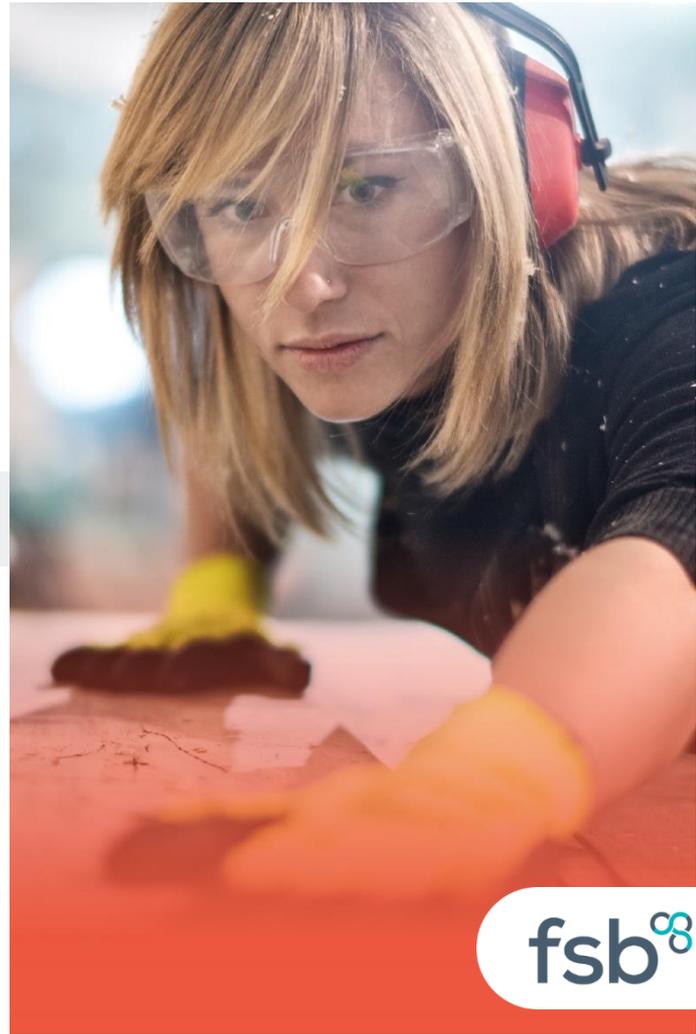
# Online Focus Groups

## Employer Online Focus Groups

- Tuesday 10 January, 1.00pm – 2.30pm
- Wednesday 11 January, 5.00pm – 6.30pm
- Thursday 12 January, 1.00pm – 2.30pm

## Providers and Stakeholder Focus Groups

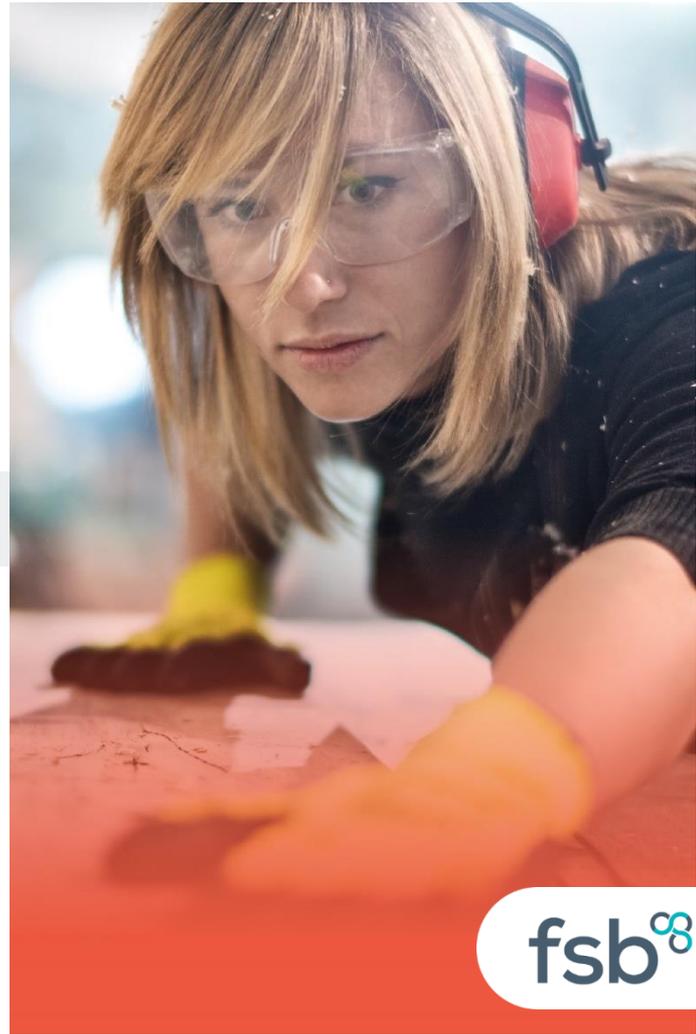
- Friday 13 January, 9.00am – 10.30am



# In-Person Focus Groups

## **In-person for Employers, Providers and Stakeholders**

- Wednesday 25 January, 9.30am – 11.30am, Derby County Football Club
- Thursday 26 January, 9.30am – 11.30am, Casa Hotel, Chesterfield
- Thursday 26 January, 1.00pm – 3.00pm, Mansfield Innovation Centre



# Thank you.

Natalie Gasson-McKinley  
FSB Development Manager,  
Nottinghamshire and Derbyshire  
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fsb<sup>03</sup>



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# Paul Yeomans

Knowledge Transfer  
Partnerships Manager,  
University of Nottingham



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**Nottingham**

UK | CHINA | MALAYSIA



# Innovate to survive

Paul Yeomans



Gerhardt  
International A/S  
was founded in  
1954 in  
Copenhagen

Manufacturers of  
cutting dies to the  
printing industry.

Rolls Royce  
Annual R&D  
Spend  
**£1.2b** (2021)

AZ R&D Spend £5b  
(2021)

Pfizer R&D Spend  
**\$13.8B**

Apple  
R&D  
Spend  
**\$26.25b**





## UK Research and Innovation

- £25billion settlement in latest spending review.
- (£8b per year)
- £25m per year for KTP (Rising in 23/24/25)







WANT TO MEET THE CHAMPION OF MONDAY TEST HOW ARE YOUR SMALL CHANCES TO SCORE

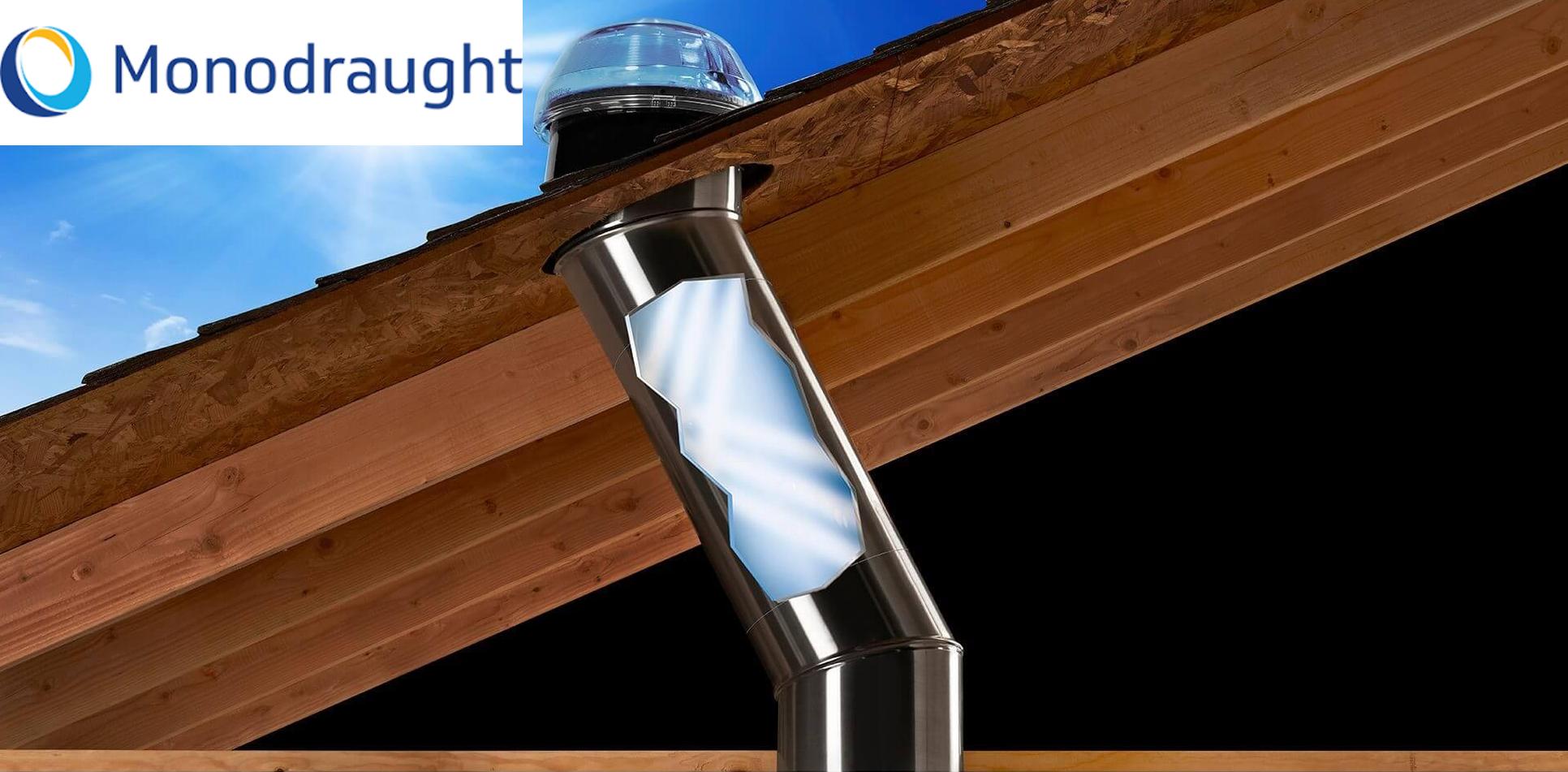
WANT TO MEET THE CHAMPION OF MONDAY TEST HOW ARE YOUR SMALL CHANCES TO SCORE

WANT TO MEET THE CHAMPION OF MONDAY TEST HOW ARE YOUR SMALL CHANCES TO SCORE

# Green Buildings



 Monodraught



# Nature's Recovery

WHETMAN GARDEN

PLANTS



# Energy Workforce

# Cadent

Your Gas Network



# Blue-Green Places



HR Wallingford

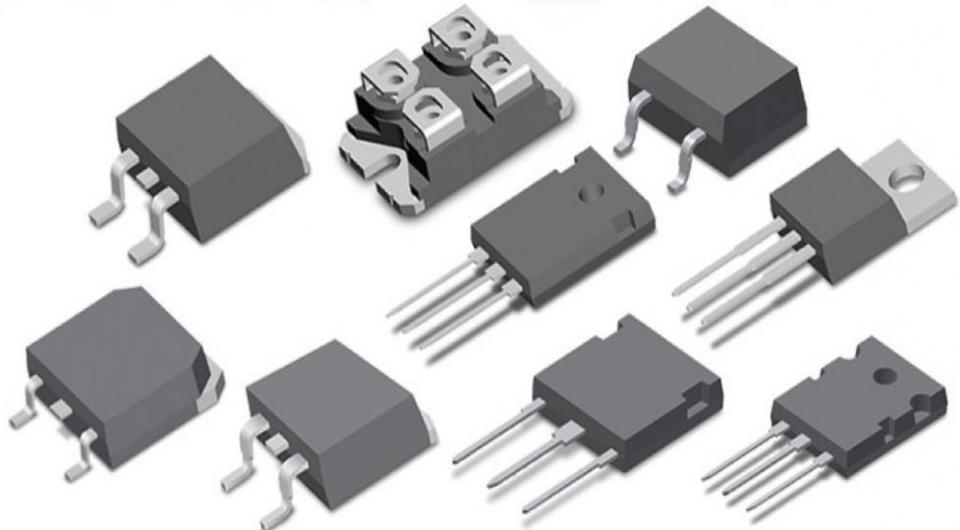


Clean Energy



# IXYS

A **Littelfuse** Technology



Net Zero Transport



ISUZU



POWERED BY CUMMINS

THIS TRUCK RUNS  
ON **BATTERY POWER**

ELECTRIC, RELIABLE, INNOVATIVE

#PoweredByCummins

ISUZU

ZERO EMISSIONS TRUCK





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A decorative graphic in the top right corner consisting of a network of light blue lines connecting various sized blue circular nodes of different sizes, creating a geometric, crystalline structure.

**Thank you**

[ktp@nottingham.ac.uk](mailto:ktp@nottingham.ac.uk)



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## Q&A

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