

Item 7

#NetZeroForGM

CHARGED WITH ACCELERATING INNOVATION TO ACHIEVE DECARBONISATION

ENERGYINNOVATIONAGENCY.CO.UK

Who are we?



Organisation:

- > Public private partnership organisation created in 2021
- ➤ To accelerate the low-carbon energy transition towards a carbon-neutral economy in GM and beyond, to speed-up the reduction of carbon emissions.

Objectives:

- ✓ Connecting innovators and innovative products to businesses AND organisations in the public sector
- ✓ Utilising the world class research support of three leading Universities
- ✓ Creating a real-world testbed in the commercial environment
- ✓ Accessing business support to enable products to reach market in the best way











What do we do?



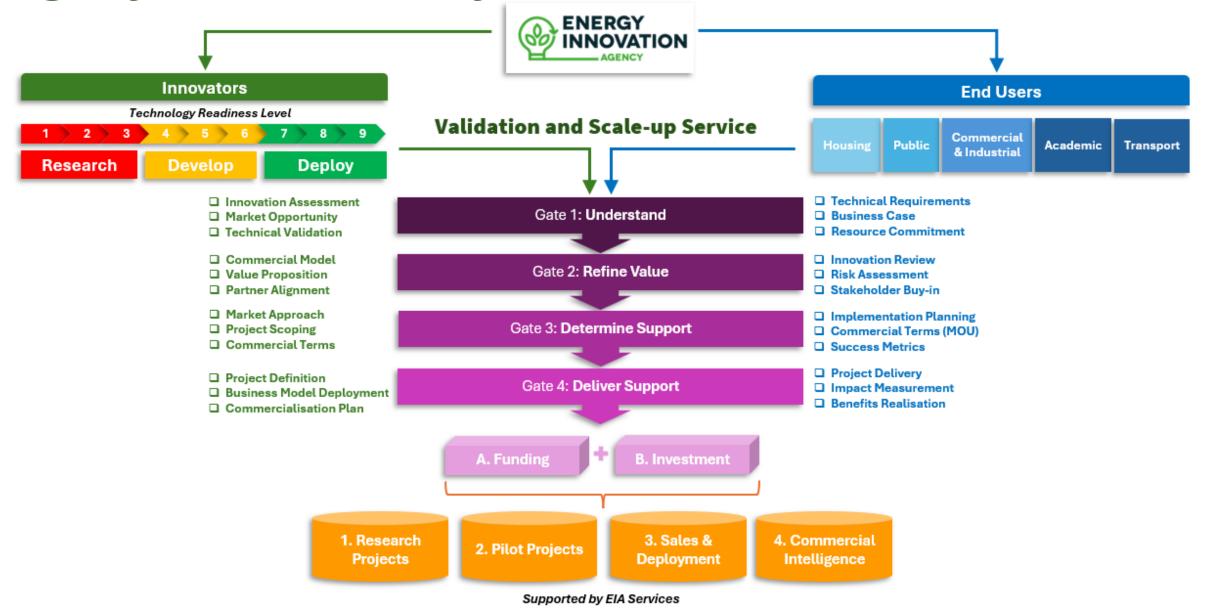
Services:

- 1. Innovator Validation and Scale-up Service
- 2. Energy Challenge Events
- 3. Meet-the-Innovator / Buyer Events / Site Visits
- 4. Grants and Innovation Programmes
- 5. Consultancy Support for Spin-Outs

Focus Areas:

- ✓ The Decarbonisation of Heat building decarbonisation, retrofit and smart energy projects
- ✓ Energy generation and storage renewable energy and energy storage solutions
- ✓ Energy diversity and flexibility smart software / digital solutions for better energy efficiency and management
- ✓ **Low-carbon transport** Infrastructure solutions to support the energy transition in transport

Agency Customer Journey



Agency Customer Journey: Key Stakeholders & Partners











B. Investment



kantar advisory







1. Research Projects

Innovation consortia with University Partners:



ford (Housing)





(Smart sensors)

2. Pilot Projects

Pilots & demonstrator projects to support public & private sector proof of concepts:





Energy Accelerator for Non-Domestic Buildings

3. Sales & Deployment

Housing – Low-carbon housing innovations via:





(And other HAs & developers)

Public Sector – housing & light commercial innovations via:



Commercial - via Salford Diocese and Church Gate for access to the UK national 21x Diocese network



s & Deployment

Leisure – via FSA, GM and wider lower league football clubs:



Industrial – via BNZ Trafford partnership, Stakehill LIDP, Rubix, GC Manufacturing Team









4. Commercial Intelligence







KTPs
Universities and industry



Services:

Business Services | Energy Innovation Agency Innovator Services | Energy Innovation Agency

Validation and Scale-up service Energy Challenge Events for businesses (sector specific) Meet the Buyer Events Innovator Pitch Day Consultancy support – for spinouts

Support for Challenges



Key challenges:

- 1. The Spark Gap
- 2. The Decarbonisation of Heat
 - ➤ Homes
 - > Commercial buildings
 - > Industrial clusters
- 3. The Decarbonisation of Transport
- 4. The Energy Quadrilemma
- 5. BAU

Funding successes



Grant Funded Projects:

➤ Innovation GM: Future Homes Project: £3.54M

commercial acceleration of innovations for net-zero homes

➤ Innovation GM: Energy Accelerator for Non-Domestic Buildings: £0.25M low-carbon innovation demonstrator projects for public and commercial buildings

➤ Local Industrial Decarbonisation Plans: £0.6M

Decarbonisation strategy as blueprint for industrial estates

> Trafford Park BNZ Partnership:

Consortia led decarbonisation partnership, led by Trafford Council to support decarbonisation of Trafford Park

Consultancy Support:

Spin-Out Battery Flow-Project: Euros 3M

Business and product development support (consultancy) for long-duration battery storage technology spin-out

Impacts this year



Stats:

- engaged > 170 x innovators AND more than 90 businesses to date across multiple sectors https://energyinnovationagency.co.uk/media/f5xelvv1/innovator-library-pdf.pdf
- secured funding > £3M (for low-carbon public funded programmes)
- Secured €3M euros product development funding for a battery spin-out
- collaborating with local Councils on industrial decarbonisation initiatives (at Stakehill AND BNZ Trafford Park)

Projects:

- \checkmark 23 x SMEs supported through the FHP with University of Salford (testing, MTB, commercial support)
- ✓ boiler additive in up to 1.8M homes and across 135 housing associations throughout 2025/26
- ✓ energy efficient vacuum glazing project in local school for a GM diocese (£130k install April 2025)
- ✓ smart HVAC project with the NHS in a local hospital (£12k Q1 2025)
- ✓ Smart energy management software platform for offices in co-working space (£60K Q1 2025)
- ✓ Smart heating management platform in large commercial office (£50k Q1/Q2 2025)
- ✓ GM Football clubs new PV business model 'solar-as-a-service' for GM football clubs (from Q2 2025)
- ✓ Rubix: various solar PV projects, with Solar-as-a-service with innovation (GM and UK based) including access to NKA's

Outcomes:

- Number of Innovator projects = 27
- ➤ Number of jobs created = 10
- ➤ Value of contracts created = £2,952,000
- > Energy saved = + 15,000 kWh (additional projects expecting further energy savings of more than 272m kWh over next 12-months)
- Amount of CO2 saved = + 2 t (additional projects expecting further savings of up to 100,000 tonnes CO2e over next 12-months)

Key Messages



- 1. Achieving net-zero (NZ) or carbon neutrality is a real challenge requires collaboration and innovation
- 2. Decarbonisation can occur relatively quickly when we do this i.e.. renewables in electricity market (systemic changes)
- 3. Critical Challenges: decarbonisation of heat and building retrofit, decarbonisation of transport, AND the green skills gap
- 4. Ultimately, NZ solutions MUST be more economically attractive than 'high carbon' BAU to stimulate widespread demand
- 5. NZ Targets will not be met without large-scale innovation deployment
- 6. To achieve this, we need to drive the innovation market top-down and bottom up to stimulate demand (Innovator & Business led)
- 7. The Agency partnership is a unique collaborative vehicle to support all of the above.

Simplifying energy challenges through innovation to make big impacts on business and sustainability goals.

Recommendations



> Agency moving into fourth year (April 2025) with more focus on wider innovation deployment

How can GCR partnership support us?

Q1: access wider and more specific energy challenges?

Q2: access buildings and test sites?

Q3: access / develop supportive procurement frameworks for innovation?

Q4: increase deployment of energy innovations in the GM city-region?

Thanks for your time!