

Innovation:energy in buildings

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Sustainable Energy Association

A UK wide member organisation, based in the West Midlands



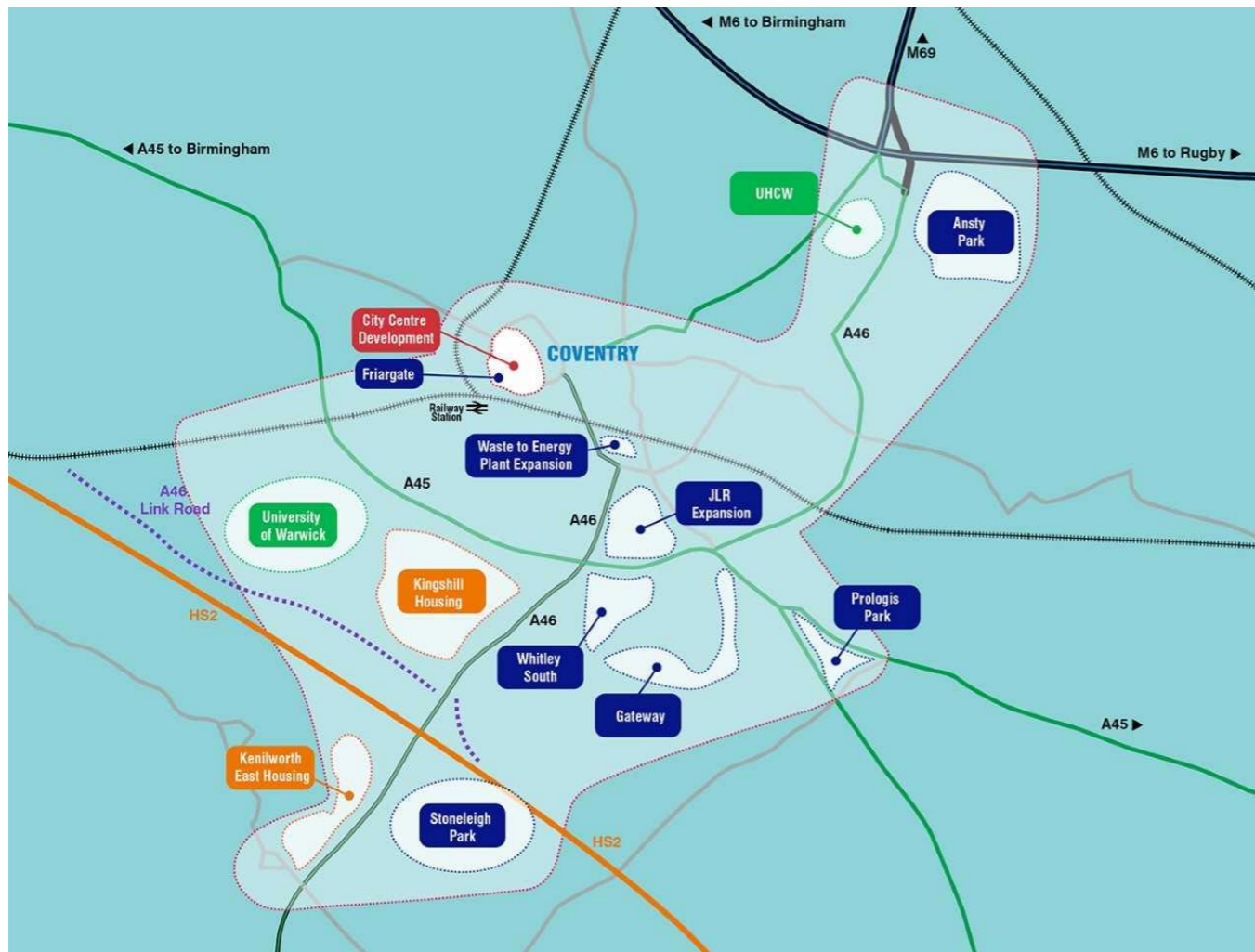
In a world of finite resources, the Sustainable Energy Association exists to help create living and working spaces fit for future generations. Our work seeks to align the interests of business, politicians and consumers to make this a reality.

We are industry leaders in energy in buildings. We are technology agnostic and provide objective, evidence-based policy positions which help shape how we think about, generate and use energy. We are constructive, collaborate and committed to achieving our vision, by ensuring that buildings are energy efficient, low carbon and warm.

Energy Innovation Zones

Devolution is an opportunity to drive innovation

EIZs are geographically-bounded zones encouraging energy systems investment and innovation at commercial scale to meet local needs

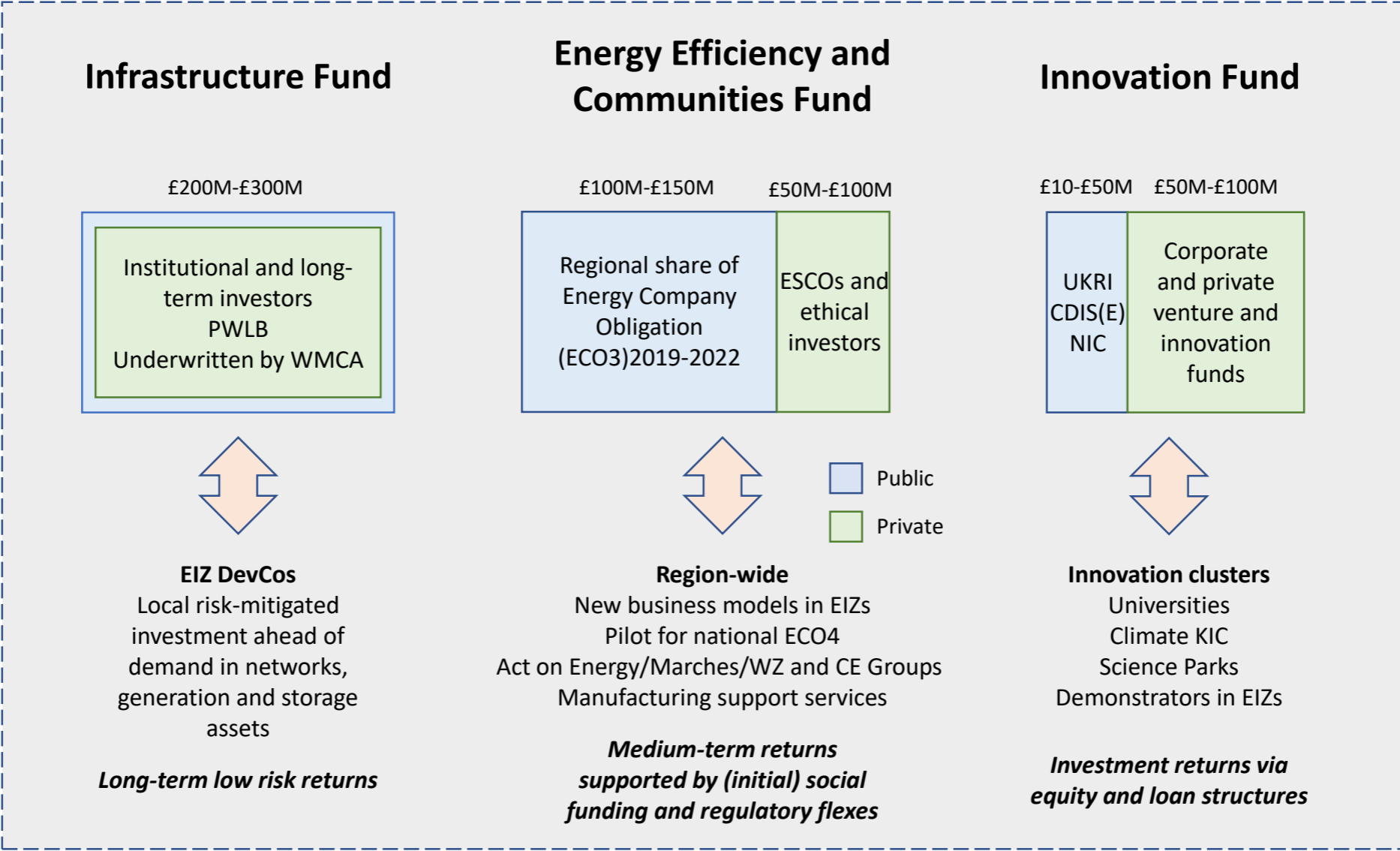


- Birmingham
- Black Country
- Coventry and Warwickshire
- Rugeley
- UK Central

Proposed Energy Capital Regional Investment Fund Structure

Three funds to support the thriving markets and clusters created by EIZs

EIZ Context



Energy Company Obligation

- The ECO3 scheme, that will run until March 2022, will focus entirely on low income and vulnerable households, helping to meet the Government's fuel poverty commitments.
- Importantly, ECO will also encourage innovation by incentivising the inclusion of new, cost effective measures into the scheme, providing a boost for small, innovative companies across Great Britain.
- Energy suppliers will be able to meet up to 10% of their obligation through delivering innovative measures.
- Local authorities will also have an expanded role, through Local Authority Flexible Eligibility, encouraging the use of their Demonstration Actions have been introduced to ECO3 to create a route for obligated suppliers to provide support for measures that need testing at scale in a live environment to reach the next stage of their development and reach the market.

ECO in West Midlands

ECO measures installed under ECO, by measure type, per 1,000 households

	Boiler	Cavity Wall Insulation	Loft Insulation	Other Heating	Other Insulation	Solid Wall Insulation	Window Glazing	Total ¹
West Midlands	29.7	33.3	25.2	13.4	0.4	8.8	0.1	110.8
England	18.2	29.5	19.8	8.5	0.3	4.0	0.2	80.4

Demonstration Actions

- A measure that has previously been tested in a laboratory setting and now requires testing at scale in a live environment
- A marketable product that is being sold in the market and may need additional support
- A Demonstration Action must be at technology readiness level 8 or 9. The manufacturer will be able to evaluate the performance of their product and, in return for this support, the obligated supplier will receive an Lifetime Bill Saving score towards their obligation.
- Given the nature of the early stage of development of a Demonstration Action, the product would be unlikely to have an existing deemed score under the scheme.
- The Demonstration Action could collect evidence on the energy efficiency of the product which could be used to develop a deemed score for the measure to be delivered under the scheme at a later date

Innovation Score Uplifts

Material Difference	Details
New material with improved performance	<p>A measure that is different from previously delivered measures by having a different or an improved material that has demonstrable improvements for:</p> <ul style="list-style-type: none">• energy efficiency (and therefore Lifetime Bill Savings for the householder); or• ease of installation.
New Installation Technique	<p>A measure that is different from previously delivered measures by having an improved installation technique. This installation technique must have demonstrable improvements for:</p> <ul style="list-style-type: none">• energy efficiency (and therefore Lifetime Bill Savings for the householder); or• speed of installation; or• the cost of the installation; or• increasing the range or number of homes installation can take place in; or• reduced disruption and/or inconvenience to the householder, (e.g. the measure can be installed in less time, meaning that the householder takes less time off work, and/or they take less time removing (and then putting back in place) furniture for the measure to be installed). <p>This type of improvement can be eligible for an innovation score uplift, but would not be eligible to apply for a new deemed score (based upon its new installation technique) because deemed scores are based on energy efficiency performance of the measure and do not take into account installation techniques.</p> <p>However, the uplift is awarded because of the benefits set out above and to encourage the installation of measures that are more cost-effective to deliver under ECO.</p>



ECO Innovation Workshop

- In April, over 90 attendees from 80 organisations and representatives from BEIS and Ofgem
- 17 innovative organisations gave presentations on innovative technology or installation solutions
- Presentations and networking with obligated suppliers
- Partnerships now developing

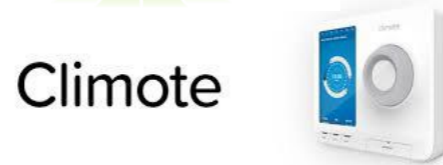


Claire Perry:

"I am very grateful to the SEA for their support with this including co-hosting the successful stakeholder event that was held during the ECO consultation period.... Your advice would be much appreciated, as is the fact that you are willing to work with us on another ECO innovation event as we move towards the launch of ECO3."

ECO Innovative Showcase

Confirmed exhibitors for 2nd ECO Innovation showcase, in London, run by SEA and BEIS:



23rd January 2019



West Midlands Opportunity?

- Trialling new technologies, new delivery methods?
- Are there products out there ready to install quickly to make the most of the opportunity?
- Could suppliers work directly with product manufacturers?
- Could WM deliver innovation on a large scale?
- Could WM develop alternative delivery channel to the usual ECO measures
- How might Local Authorities or Housing associations get involved?
- Does anyone want to attend the innovation event to showcase a product?



THANK YOU

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