



Net Zero Go

Turning ambition into ACTION



Department for
Business, Energy
& Industrial Strategy



UK Research
and Innovation

Part of

CATAPULT
Energy Systems



Welcome

**Guy Newey, CEO, Energy Systems
Catapult**



UK Research
and Innovation



Department for
Business, Energy
& Industrial Strategy

ABOUT US.

MISSION: UNLEASHING INNOVATION AND OPEN NEW MARKETS TO CAPTURE THE CLEAN GROWTH OPPORTUNITY.

WHO?



**INNOVATION
EXPERTS**

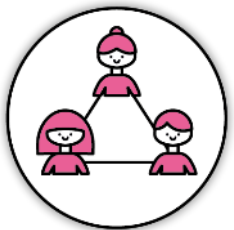
WHAT?



**SUPPORTING
INNOVATORS TO
COMMERCIALISE**



**HELPING TO DESIGN
THE FUTURE ENERGY
SYSTEM TO UNLOCK
INNOVATION**



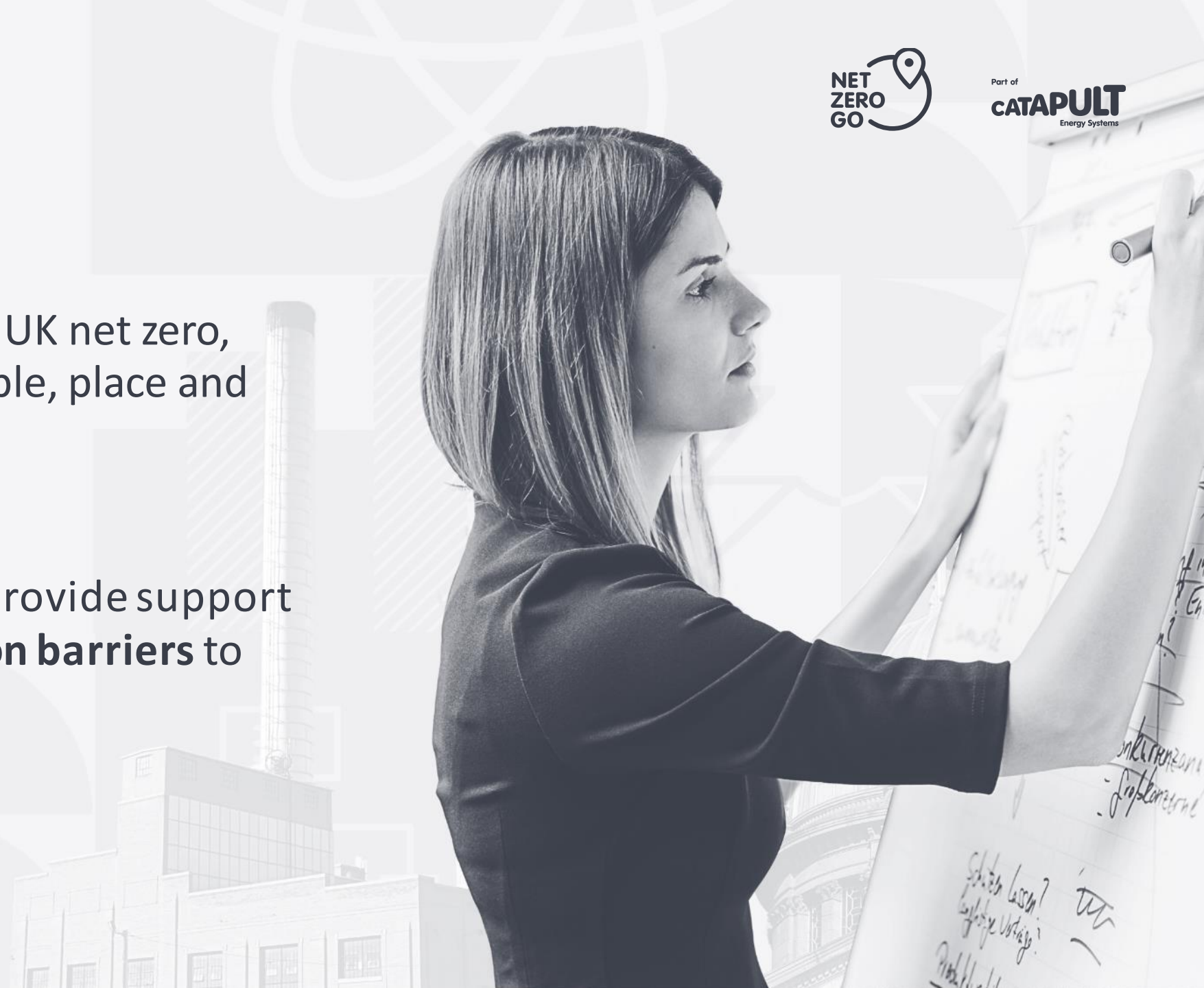
**DRIVING
COLLABORATION**

- Consumer Insight and Proposition Design
- Business Model Innovation
- Harnessing Digital and Data
- Test and Demonstration
- Delivering Large Scale Innovation Trials
- Whole System Modelling
- Clean Tech Engineering
- Systems Engineering
- Integrating the Transport and Energy Systems
- Markets, Policy and Regulation
- Decarbonising Local Places
- Decarbonising the Public Sector Estate
- Decarbonising Campuses, Business Parks and Industrial Estates

We work with
Innovate UK

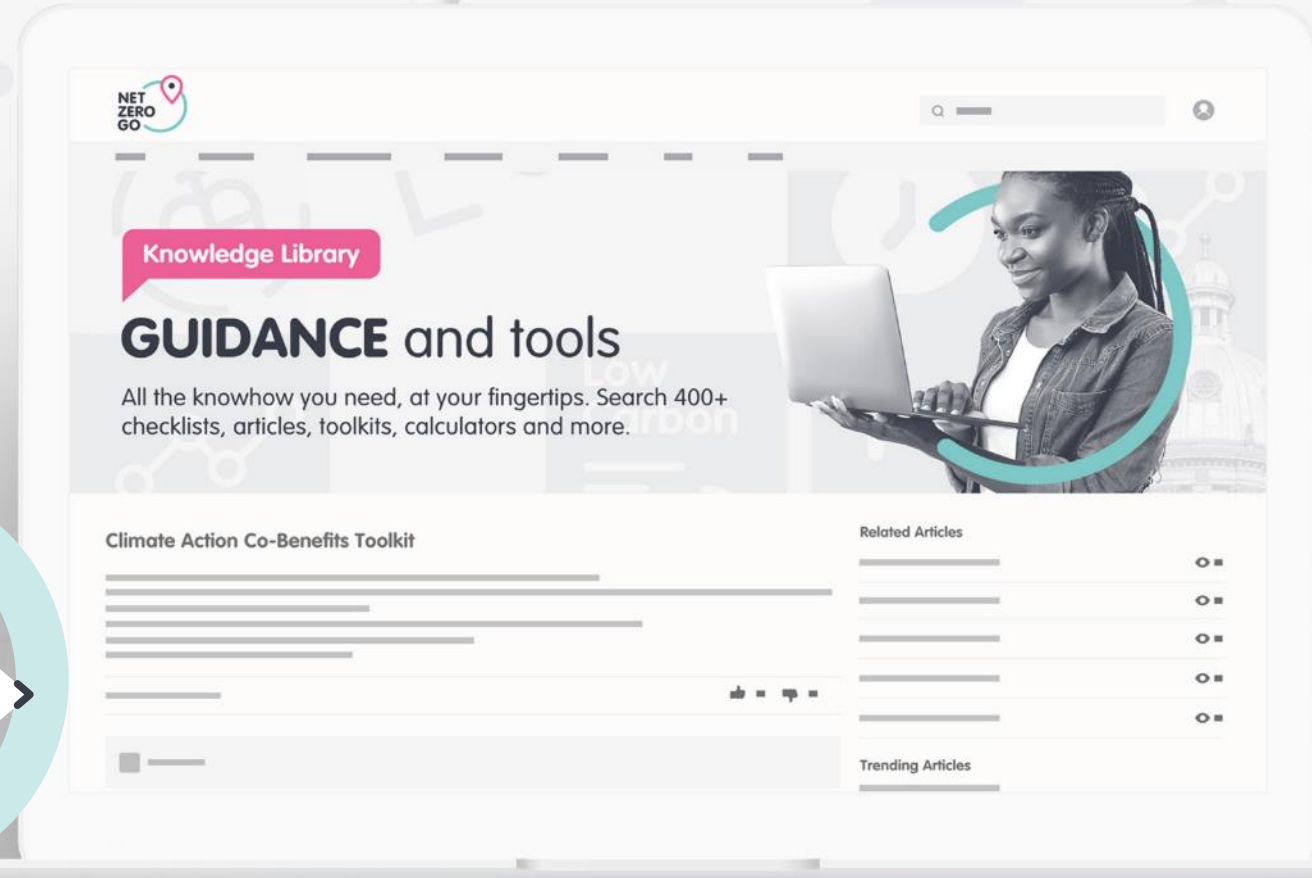
Net Zero Go

- **Local action** is key to UK net zero, with benefits for people, place and planet
- But it is **complex**
- Aim to identify and provide support to **overcome common barriers** to local energy projects



What

A unique digital platform...
that brings together all net zero
transition knowledge, tools, and
expertise in one place...
for the benefit of all.



Agenda

National Government Perspective

Patrick Allcorn, BEIS

How we've been supporting Public Sector Decarbonisation Scheme 3b

Jim Lott, ESC

Paul Kemp, Greater South East Net Zero Hub

New content added:

- Engaging with your DNO
- Planning legislation
- Local Area Energy Planning

Anna Stegman, ESC

Richard Leach, ESC

Feedback

Guy Newey, ESC

Funding announcement - Net Zero Living

James Taplin, UKRI

What's next

Guy Newey, ESC

National Government Perspective

**Patrick Allcorn, Head of Local Energy,
BEIS**

Supporting PSDS 3b

**Jim Lott, Net Zero Go Content
Manager, ESC**

The challenge



- Funding call is always over subscribed
- Funding application is data rich and requires lots of information
- Call timeline is tight
- Less mature local authorities may not have the needed data and will waste resource trying to apply

Our response

- Worked with Salix to provide signposting and case studies
- Developed a step by step guide in collaboration with Net Zero Hubs to understand required organisational data for the funding application
- Organised LA training sessions to build community and share experience

The outcomes

Guidance provided gave local authorities a longer lead time with step by step guides to help provide robust applications to PSDS 3b funding

- Content guide
- Project template
- References
- Tools

PSDS Content Guide

- A clear set of steps to follow
- Links to relevant actions and activities
- Aligned with Net Zero Go projects plan of work

Plan of Work Site Appraisals

Current status: *** Project: Public Sector Decarbonisation Scheme- onboarding 1 Stage: Stage 0: Strategic Definition

A review of the site or potential sites, which may include an existing buildings and assets, to determine the suitability of the Requirements.

Find out more [About Site Appraisals](#)

▼ **PSDS Guide**

Review potential sites

All PSDS applications require a lot of data about the buildings or sites that are being put forward for capital grant funding. Reviewing which buildings could benefit from upgrades and to identify those which would meet the carbon/cost requirements is an essential part of the process.

A robust updated **asset register** can support site valuation, risk management and operational efficiency. It does so by collating information gathered from building surveys, mechanical & electrical surveys, metering plan(s) and environmental certifications. The LGA [have a guide to understanding](#) what data should be included

For energy projects it should also contain information about energy usage, mechanical plant, heating systems and power usage. For PSDS projects in particular information is required about the building fabric as solutions may involve heating systems.

Your facilities team should have an asset register available and published it under the Local Government Transparency Guidelines.

You may need to capture more energy related information. The building survey tool [provided by the Midlands Energy Hub](#) (see files box) can help understand what extra data will be needed.

It is useful to access the Energy Performance Certificates (EPC) or Display Energy Certificates (DEC) for your building stock. The latest data can be accessed [here](#). There is also a data api available to get data in bulk.

Applicants must provide

- Energy consumption data for the last three years such as **energy bills**, **Display Energy Certificate (DEC)**, **Energy Performance Certificate (EPC)** and energy benchmark estimated appropriate to the building type.

Guide Public Sector Decarbonisation Scheme (PSDS) Activities

Public Sector Decarbonisation Scheme (PSDS)

Salix guidance for PSDS Phase 3 has now been released! Find the guidance document linked in the Files section, and join the PSDS Group in the Forum for more information.

In order to apply for Public Sector Decarbonisation Scheme Grants you need to have a good understanding of your building assets and potential measures that could be carried out.

The information available on the Salix web site gives a good feel for what information makes up an application. All of the data that needs to be included in a good asset and facilities register.

We have pulled together a set of materials that can help develop your PSDS project, along with a Net Zero Go template to structure the work.

- [PSDS Guide to steps](#)
- [PSDS template](#)
- [PSDS topic](#) with access to related documents and references
- [Risk register and risk management templates](#) (provided by Net Zero Hub)
- [Phase 3b section on Salix website](#)
- Case studies from previous PSDS projects (supplied by Salix) - see topic page and Salix website

The sections are as follows:

1. Review previous projects
2. Review potential sites
3. Compare potential upgrade solutions
4. Gather high level costs
5. Review potential risks and opportunities
6. Decide whether to go ahead with application
7. Gather detailed evidence from sites
8. Gather detailed costs
9. Create a robust delivery programme
10. Application Process

Details

1. Review previous projects

Consider looking at the Case studies of Previous PSDS funding projects to understand the scope of what is possible. These can provide inspiration and support you in helping stakeholders and decision makers get on board.

- Net Zero go provides a list of PSDS funding cases studies on the [topic page](#).
- Salix provides a large list of [successful projects](#).

[View Case studies](#)

2. Review potential sites

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[Review potential sites](#)

PSDS Project template

- Guidance integrated in Net Zero Go Project
- Information available at right point for user
- Useful files and data pre-populated
- Template can be cloned to create a new project

Project Details

This is a Net Zero Go template. Please review this for guidance to support you to develop your local energy projects. If you want to start a project from this template use the **CLONE PROJECT** button.

 **Project**
Template: Public Sector Decarbonisation Scheme

[+ Follow](#) [Export](#) [Create Project from Template](#)

 **Topics (1)**

Public Sector Decarbonisation Scheme (PSDS)

> Public Sector Decarbonisation Scheme (PSDS) Activities Guide

Details Files Plan of work Data

 File Explorer

Home

2022-03-14 EB Template - Business Case Docu...
2022-03-14 EB Template - PID
2022-03-14 EB Template - Project Plan Docu...
Energy & Carbon Assessment Toolkit TEMPLAT...
Phase 3b PSDS Guidance Notes v.13 Final 02.08...
Phase_3_PSDS_Application_Form_V1.7
Property Information_PSDS_Stage_1_V_1.7
Risk register

Home

2022-03-14 EB T...
2022-03-14 EB T...
2022-03-14 EB T...
Energy & Carbo...
Phase 3b PSDS ...
Phase_3_PSDS...
Property Inform...
Risk register



File preview

PSDS Content – guidance and evidence



Topic Page

Public Sector Decarbonisation Scheme (PSDS)

Topic Description

The Public Sector Decarbonisation Scheme provides grants for public sector bodies to fund heat decarbonisation and energy efficiency measures. The Public Sector Decarbonisation Scheme supports the aim of reducing emissions from public sector buildings by 75% by 2037, compared to a 2017 baseline, as set out in the 2021 Net Zero and Heat and Buildings strategies.

The scheme is open to public sector bodies in England, including central government departments and their non-departmental public bodies, the NHS, schools (including maintained schools and academies), emergency services, further and higher education and local authorities. Central government departments operating in areas of reserved policy (i.e., not devolved to Scottish or Welsh Governments or the Northern Ireland Executive) are also eligible to apply for funding for estates located anywhere within the UK.

Public Sector Decarbonisation Scheme (PSDS) Activities

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Q psds

Q "psds"

Public Sector Decarbonisation Scheme (PSDS)
Topic

Guidance articles

Articles References Tools Case Studies Datasets Products and services Discussion

General articles to support use of Net Zero Go and Local Energy Projects.

Working with your Distribution Network Operator

Provided by Salix

There are 14 different Distribution Network Operators (DNO) across Great Britain. These are the licensed companies that own and operate the network of towers, transformers, cables, and meters that carry electricity from the national transmission system and distribute it across Britain.

Salix Glossary

Provided by Salix

Glossary of terms used in PSDS guidance

Grant – Public Sector Decarbonisation Scheme (PSDS)

The Public Sector Decarbonisation Scheme provides grants for public sector bodies to fund heat decarbonisation and energy efficiency measures.

Signposting

Articles References Tools Case Studies Datasets Products and services Discussion

References to support material provided by other organisations.

Whole building' approach to decarbonising a building

Provided by Salix

We [Salix] are urging Applicants to take a 'whole building' approach to the way they look at their building and the energy it consumes. Here is our step-by-step guide on how you can take a successful 'whole building' approach for your project.

Guidance on the preparation of heat decarbonisation plans

Provided by Salix

This guide is to support all eligible public sector organisations wishing to upgrade, improve or create their first heat decarbonisation plan through Phase 3 of the Public Sector Low Carbon Skills Fund (Phase 3 LCSF).

PSDS – Phase 3a Distribution Network Operator (DNO)

Provided by Salix

Salix has begun a series of webinars designed to guide you through your project work with your local Distribution Network Operator (DNO).

Case Studies

Articles References Tools Case Studies Datasets Products and services Discussion

Case studies available in Net Zero Go providing evidence and inspiration for your Net Zero Go Journey.

Bringing solar to regeneration funding

12 schools taken solar by Solar for Schools in partnership with Leeds City Council.

Greater Manchester Fire and Rescue Service

As part of the Public Sector Decarbonisation Scheme (PSDS), Greater Manchester Combined Authority (GMCA) is investing in a wide range of public buildings, including 19 sites used by Greater Manchester Fire and Rescue Service. The total grant funding for these works totals £621,775.

Eden District Council's push for a greener future

As part of the Public Sector Decarbonisation, Eden District Council has been awarded £856,000 in government funding to reduce carbon emissions from its council building, Voreda House. It is estimated the technologies installed will reduce carbon emissions by 126 tonnes of CO2 annually.

Carmarthenshire Council Energy Efficiency and Optimisation Project

Carmarthenshire County Council will upgrade its energy infrastructure and deliver long term carbon, energy and cost savings across the Council's estate toward their carbon zero goal by 2030.

Holborn Mine Water District Heating Scheme

As part of the Public Sector Decarbonisation Scheme, South Tyneside Council has been awarded £4.7m to support the first stages of delivering the Holborn Renewable Energy Network, part of which will use heat from abandoned flooded former coal mines, connecting them to a district heat network to serve buildings within South Shields.

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Greater
South East
Net Zero Hub

Local Net Zero Hubs

Paul Kemp – Energy Projects Manager
Greater South East Net Zero Hub

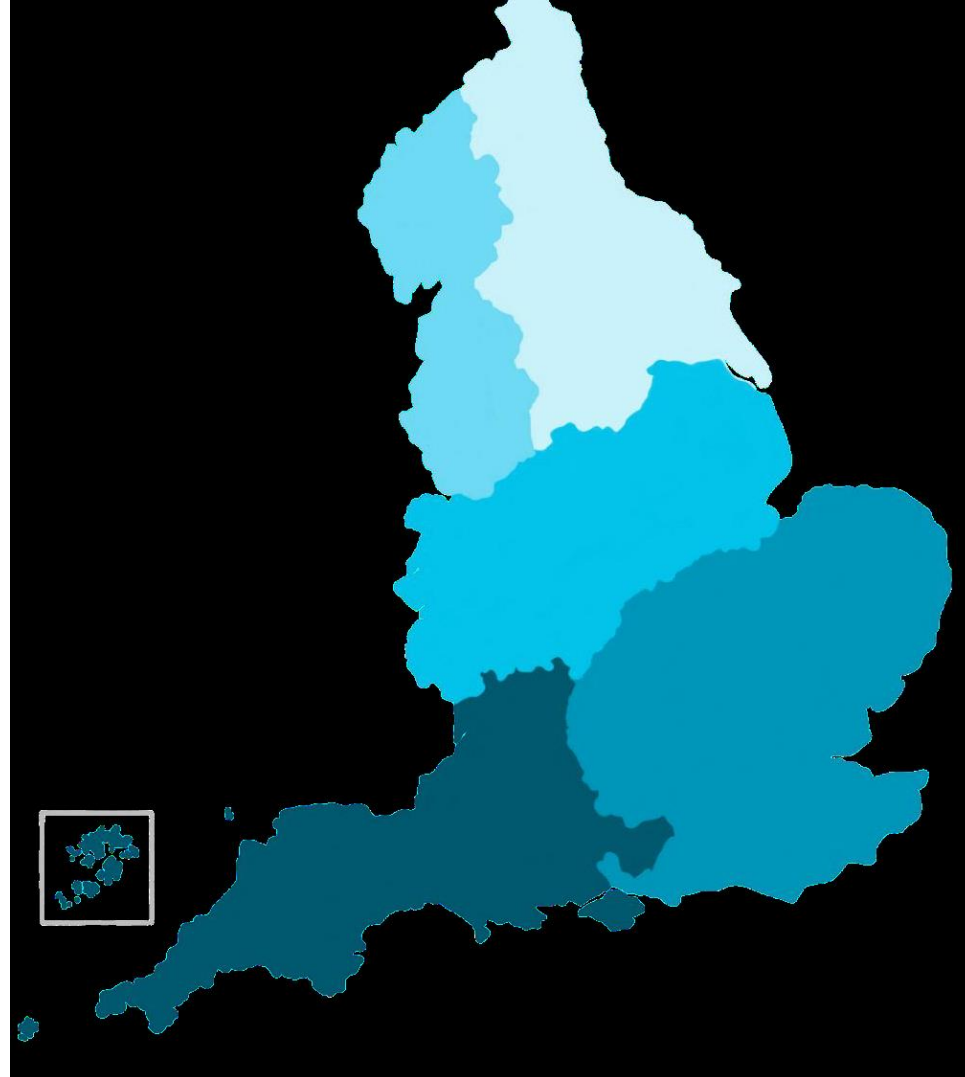
06-Oct-2022

Summary – Local Net Zero Hubs

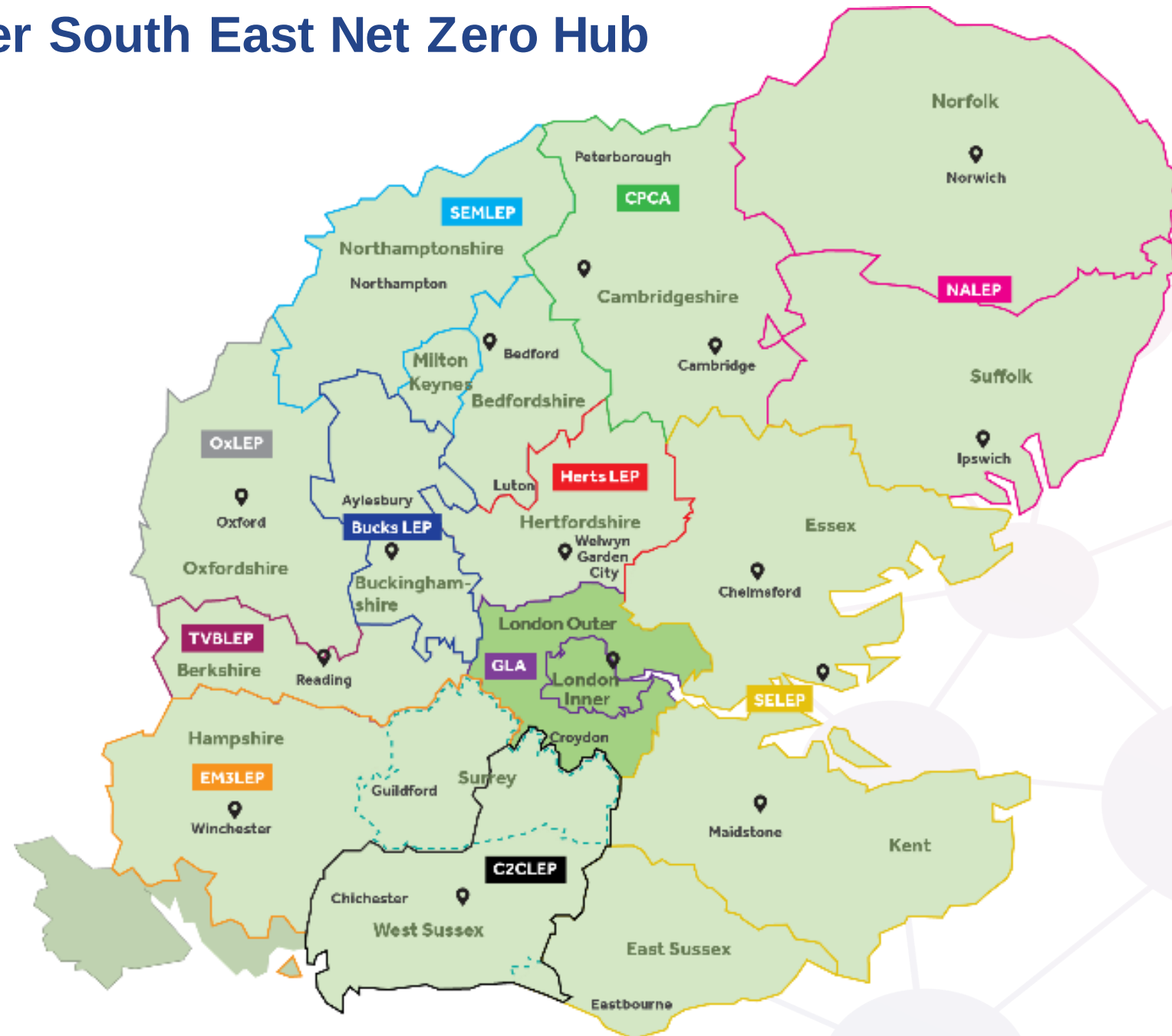
- BEIS Local Net Zero Programme.
- Five **Local Net Zero Hubs** across England working in collaboration
- Work with public sector organisations and their stakeholders to support the development and financing of local net zero projects.
- Increase number, scale and quality of local net zero projects.
- Raising awareness of good practice, funding opportunities and green finance approaches
- Offer advice and information
- Take action to overcome barriers that would otherwise prevent local net zero projects from being developed
- Promoting 'local net zero' schemes, partnerships and collaborations.
- Manage PSDS Skills Fund
- Domestic Retrofit – LAD2 and Sustainable Warmth

Local Net Zero Hubs - The National Picture

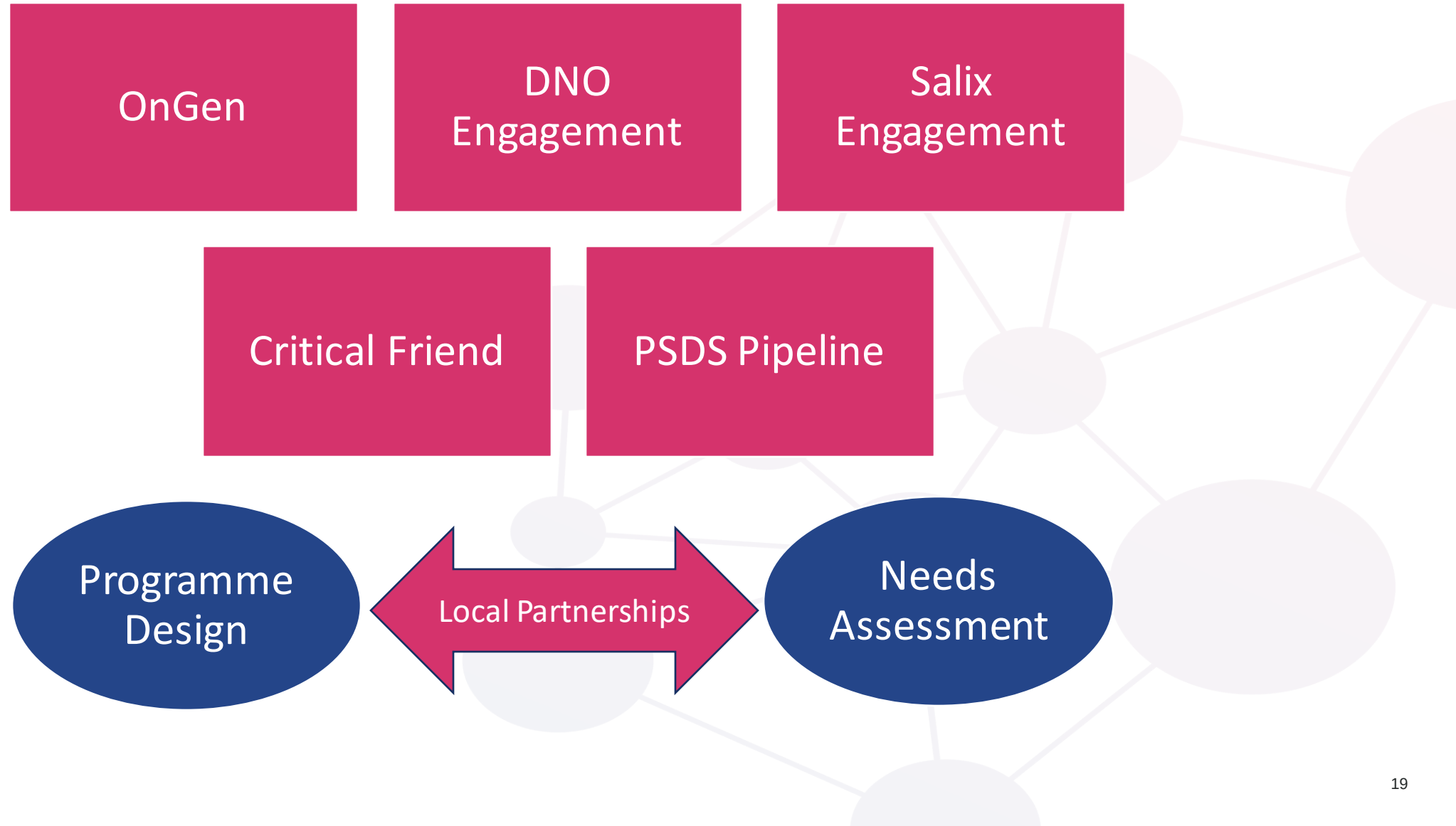
- Greater South East
- South West
- Midlands
- North West
- North East



Greater South East Net Zero Hub



Public Sector Estate Decarbonisation – Hub Support



PSDS Dashboard – Overview

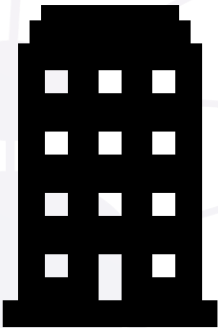
<u>PSDS ALL PROJECTS</u>	<u>Value</u>	<u>Projects</u>	<u>% of Total (Greater South East Region)</u>
PSDS Projects Supported by the Net Zero Hub	£143,256,253	86	-
PSDS Awarded (Supported by the Net Zero Hub)	£116,900,445	27	20%

PSDS Dashboard – Hub Support Success

<u>PSDS AWARDED</u>	<u>Value</u>	<u>Projects</u>	<u>% of Total (Greater South East Region)</u>
Successful PSDS Applications Supported by the Net Zero Hub through OnGen	£37,204,871	9	7%
PSDS P1 Stalled Projects Supported by the Net Zero Hub	£68,314,330	10	12%
Successful PSDS Applications Supported by the Net Zero Hub though "light touch" support	£8,036,295	8	1%

PSDS Dashboard – Other

<u>OTHER</u>	<u>Value</u>	<u>Projects</u>
PSDS Awarded in GSE Total	£567,066,103	226
Current Net Zero Hub Pipeline Value (Not Awarded PSDS)	£26,845,808	56



Local Partnerships



Needs Assessment

Identify the estimated total requirements of public sector estates across the Greater South East to reach net zero.



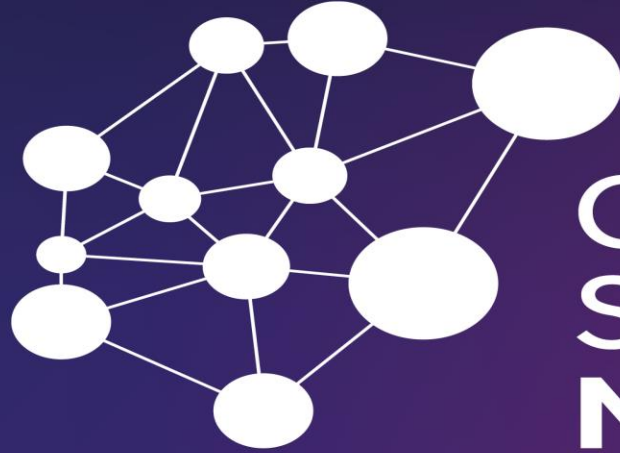
Programme Design, Recruitment and Project Management Support

Focused on development of PSDS Skills Team and how it can strategically add value to the Hub's future development.

Further Activity

- **Salix** – DNO Webinars, Strategic Support, Communications
- **OnGen** – Hub and Managed Service
- **Other Tools** – Modern Energy Partners
- **Shared Learning** – Case Studies and Cross Hub PSDS Working Group
- **Health Sector Engagement** – e.g., Greener NHS Teams





Greater South East Net Zero Hub

New Content

**Anna Stegman, Local Energy Insights
Manager, ESC**

Contents

Working with District Network Operators

Relevant Planning Legislation

Emerging Business Models for Smart Local Energy Systems



	Project Marketplace – An organisation or digital platform that takes the lead in finding local renewable energy projects and linking them to investors and the supply chain, increasing visibility and credibility of renewable projects while decreasing costs and risks.	→
	Local flexibility market – A single buyer creates a market and incentives for more flexible use of the local power system, sending out price signals to aggregators and energy asset owners in the area and enabling local businesses and homes to provide flexibility.	→
	Local energy market – A marketplace that matches local energy users with local green energy assets like solar, storage and EV charging. Local users can buy directly from a local generator or buy other energy services available in the market.	→
	Virtual network manager – An organisation creating a virtual balancing system that optimises local generation and demand, commonly used in constrained areas where new grid connections are difficult or expensive. Allows faster roll out of low carbon technology.	→
	Anchor asset – A major local energy asset like heat networks, EV charging hub or storage into which other energy assets are linked, reducing carbon emissions or costs for end users and delivering low carbon services to locals.	→

DNO Licence Areas

This map represents the DNO licence areas of the British Isles ([post-code checker here](#)). Click on the relevant region within the four UK countries that best represents your locality, or use the arrows on your keyboard to scroll through the slides. We have not yet included information on Manx Utilities or ESB Networks. The full list of network licensees is available through [Ofgem](#), but active IDNOs are also listed and linked below.

 Scottish & Southern
Electricity Networks

 NORTHERN
POWERGRID

 electricity
north west

 SP ENERGY
NETWORKS

 UK
Power
Networks
Delivering your electricity

 Scottish & Southern
Electricity Networks

IDNOs

- [Eclipse Power Networks](#)
- [Energy Assets Networks](#)
- [ESP Electricity](#)
- [Fulcrum](#)
- [GTC](#)
- [Harlaxton Energy Networks](#)
- [Indigo Power](#)
- [Last Mile Asset Management](#)
- [Leep Utilities](#)
- [mua Electricity](#)
- [Optimal Power Networks](#)
- [UK Power Distribution](#)
- [Utility Assets](#)
- [Vattenfall IDNO](#)

 SP ENERGY
NETWORKS

 Northern Ireland
Electricity
Networks

 manxutilities
bun shirveishyn vannin

 ESB
NETWORKS

 WESTERN POWER
DISTRIBUTION
Serving the Midlands, South West and Wales
a nationalgrid company

What's in the guide



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Electricity North West

Services

Links to key service pages are included below.

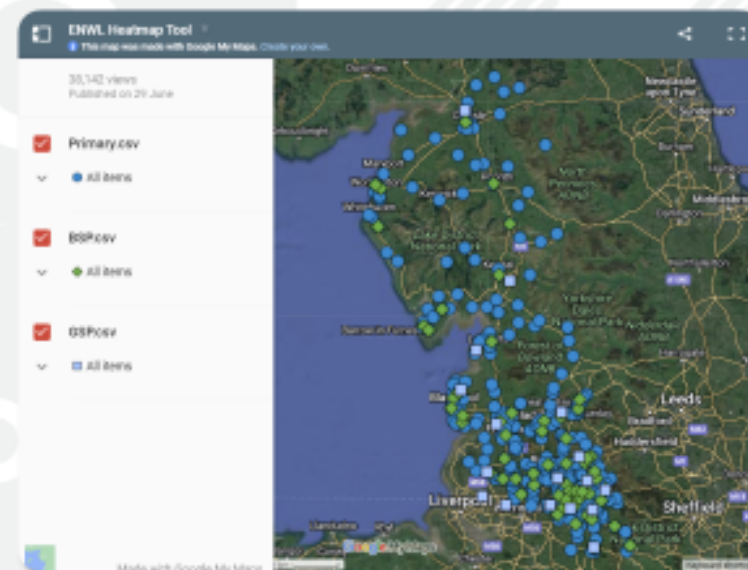
- [Online connections service](#): application portal and cost estimate for connections.
- [Identify/report a cable](#): a now chargeable service to prove an out of commission cable on your proposed site.
- [Connection agreements](#): download the relevant guides and forms.
- [Diversions](#): how to get started and timescales.
- [Connections terms and conditions](#): including key milestones and documents.
- [Large connections](#): new commercial supply connection over 300kVA.
- [Generation and storage](#): micro-generation, over 50kW, flexible connections.
- [EV charge points](#): small charge points, large commercial charge points.
- [Heat pumps](#): notify the DNO, apply to connect, process flow chart.
- [Queue management process](#): accepted connection offers but not yet connected.

Tools and Resources

Links to key tools and resources are included below.

- A [connections guide](#) helps determine what type of connection or service alteration you require.
- [Heatmap tool](#) enables the easy identification of network constraints in the vicinity of your site (right). The data can be downloaded into Excel and contains capacity information on all primary substations and bulk supply points.
- Guidance on [competition in connections](#) and information about ICPs and IDNOs.
- [Quotation options](#) outline the difference between an indicative quote and a firm fixed quote that you can progress with.
- The [connections contacts](#) page lists the relevant contacts for discussing connections, generation, disconnections and diversions.

Electricity North West (ENWL) is responsible for maintaining and upgrading 13,000 km of overhead power lines and more than 44,000 km of underground electricity cables and much more. This covers the diverse communities between the Lake District landscapes to the city of Manchester and all the towns and villages located in-between. Their website outlines their [connections services](#) and includes a [glossary](#) of key phrases.



[Enter your details here](#) to request a Connections surgery appointment with ENWL experts about current or future projects before submitting an application.



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and

Project Themes

Click on one of the icons to navigate to that section, or use the arrows on your keyboard to scroll through the slides.



**Building Energy
Efficiency**



**Low Carbon
Heat**



**Low Carbon
Mobility**



**Renewable
Generation**



Battery Storage

Emerging Business Models

- Potential roles for a local authority



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Investor



- **Asset investor**
Investing in local energy assets like solar, storage or EV charging infrastructure
- **Energy services company (ESCo)**
Invest in a service company that acts as the delivery mechanism for the energy services provided to customers
- **Market platforms**
Play a central role in the design of local energy markets and local energy platforms, which allows the community to trade different energy services

Customer



- **Energy off-taker**
A local authority who buys energy from the SLES for its own buildings or operations. This includes power, heat and transport.
- **Building**
Public buildings or social housing that benefit from the installation of energy-efficiency improvements or low carbon technology
- **Land**
Lease land to 3rd party to develop generation assets

Supporter



- **Community engagement**
Support project engagement by providing local context and identifying key groups in the community
- **Local area energy planning**
Providing data to either allow others to undertake LAEP or to undertake it themselves

What's in the guide



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1

Project Market-place



An organisation or digital platform that aggregates local energy projects up and links them to investors and delivery contractors

Projects: Rewire-NW (Warrington), Zero Carbon Rugeley, RESO (West Midlands)

2

Local Flexibility Market



A single buyer creates a market and better business case for local, flexible energy assets

Projects: LEO (Oxford), LMEX (Liverpool)

3

Local energy market



Creates a market for local green energy from many local generators and many local buyers

Projects: GM-LEM (Manchester), MH:EK (Milford Haven)

4

Virtual Network Manager



Service provider helps virtually manage local constraints that allows faster roll-out of low carbon technology

Projects: ReFlex (Orkney), Girona (Coleraine)

5

Anchor Asset



Investment in assets and infrastructure that delivers low carbon services to locals

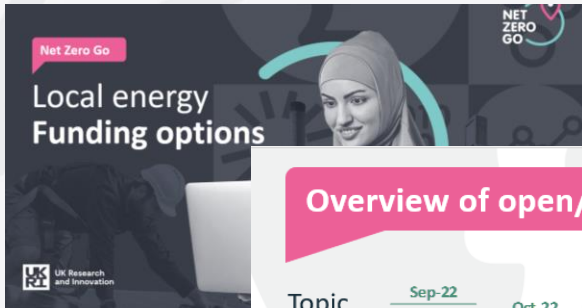
Projects: Superhub (Oxford), GreenSCIES (Islington), Remedy (Southend), PIRI (Peterborough)

Coming soon...



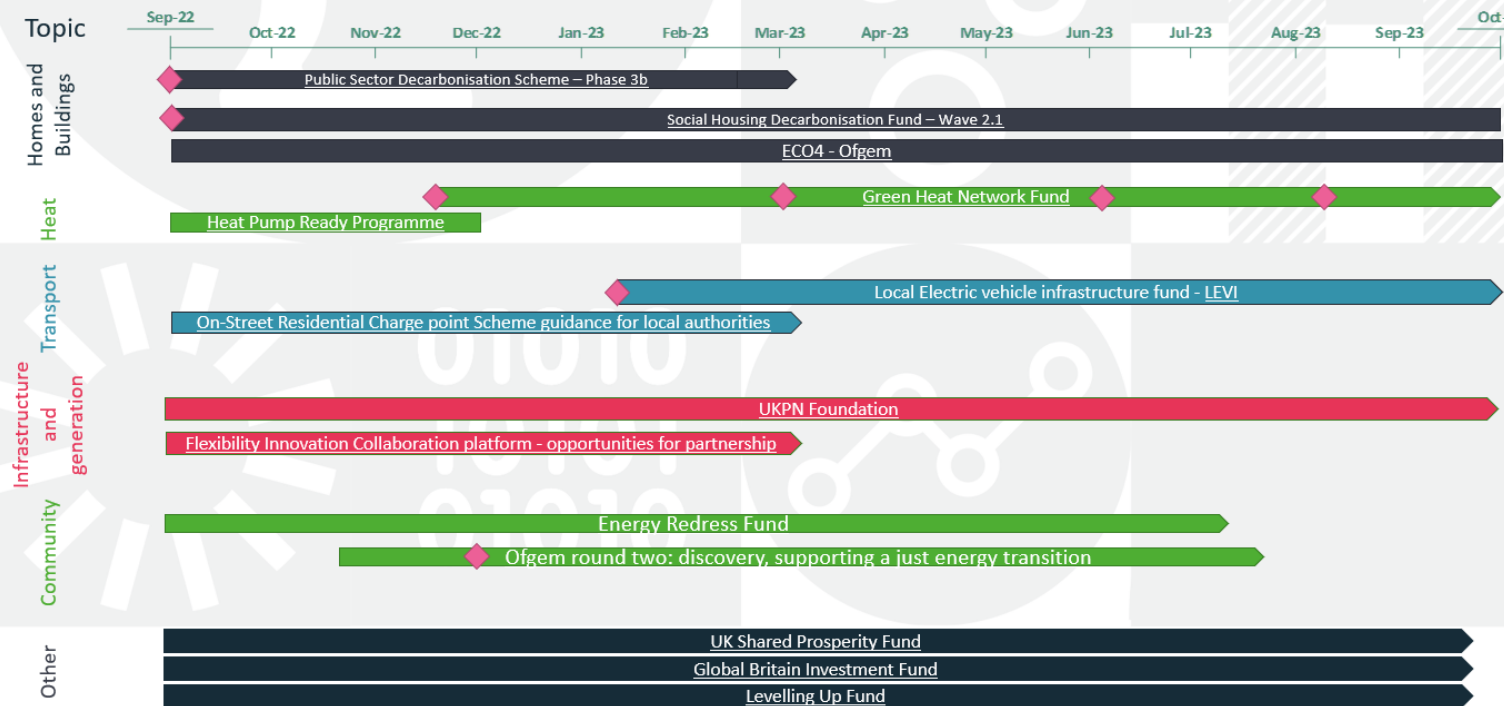
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...and what's next



Overview of open/upcoming funds for LAs

Please note this does not show all opportunities and some dates are unconfirmed – for further details refer to spreadsheet



Demonstrating value of local energy to procurement, finance, legal decision makers

Contact me:

Anna.Stegman@es.catapult.org.uk



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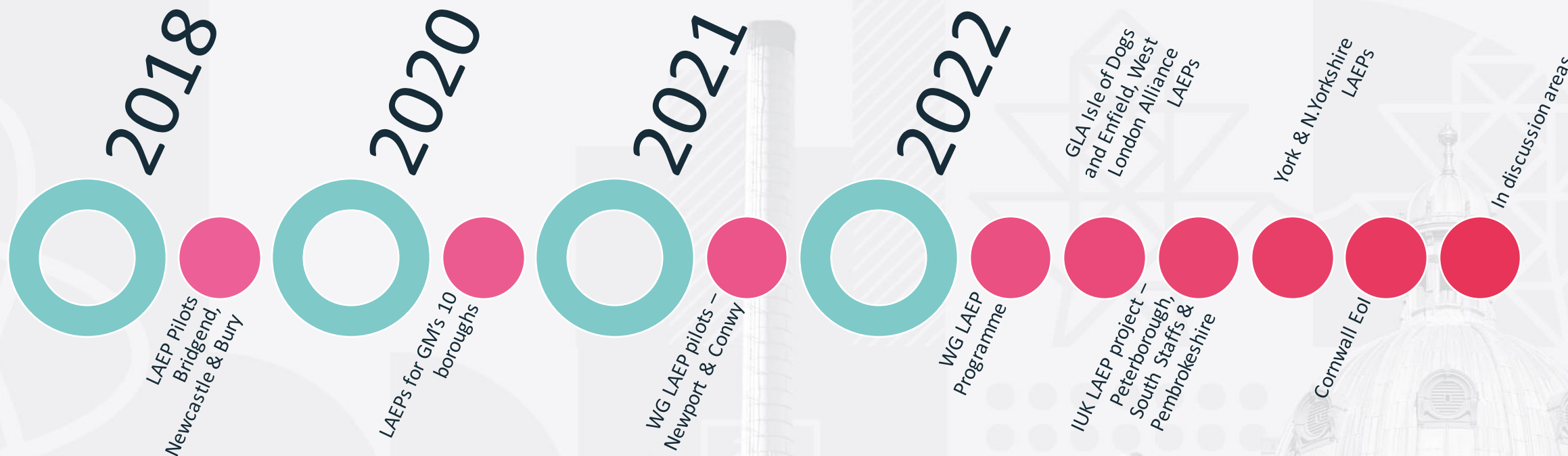
LAEP Guidance

**Richard Leach, Local & Site Energy
Transition Manager**

LAEP activity



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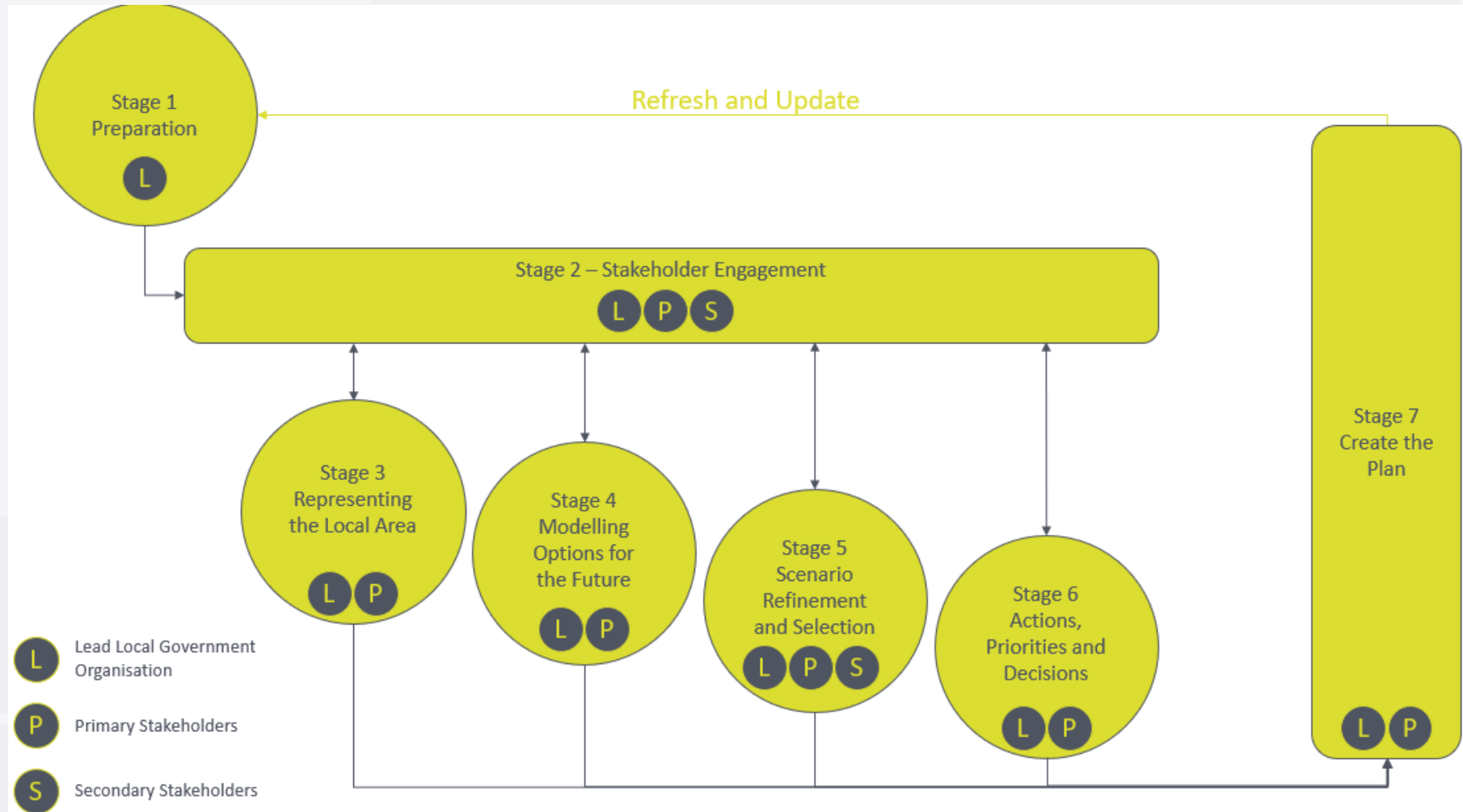


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LAEP guidance – providing consistency



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- Whilst LAEPs have several objectives
- An overarching purpose is to provide key stakeholders (involved with delivering the net zero transition) with a plan and content that facilitates action and activity
- Outputs should be in a format that provides the user with data and visualised information that identifies the 'what, where and when' at a high level (but granular enough to identify activity to place), providing information to facilitate further planning (e.g., by energy network operators) and project work by local government and delivery organisations

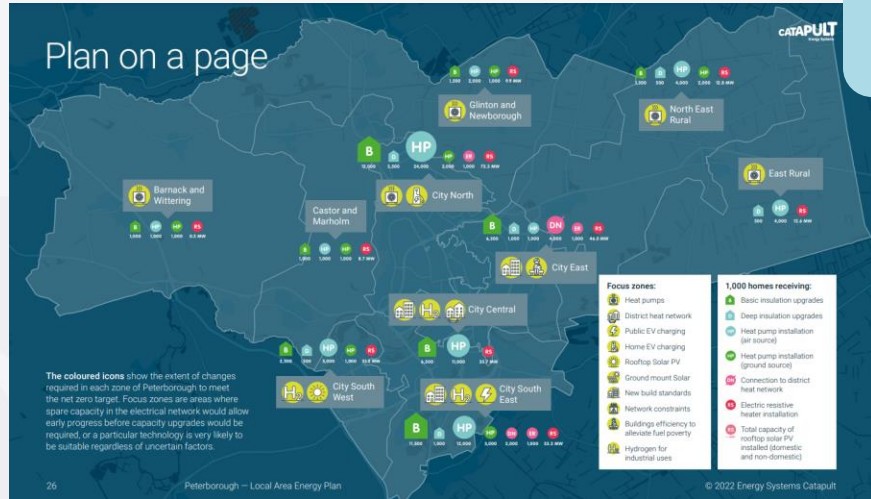


Example LAEP outputs



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Identification of
near-term focus zone
activity by energy
system component

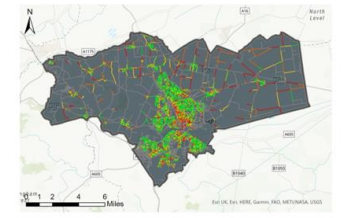


More granular
targeting of
interventions in
focus zones -
informing pipeline of
outline priority
projects

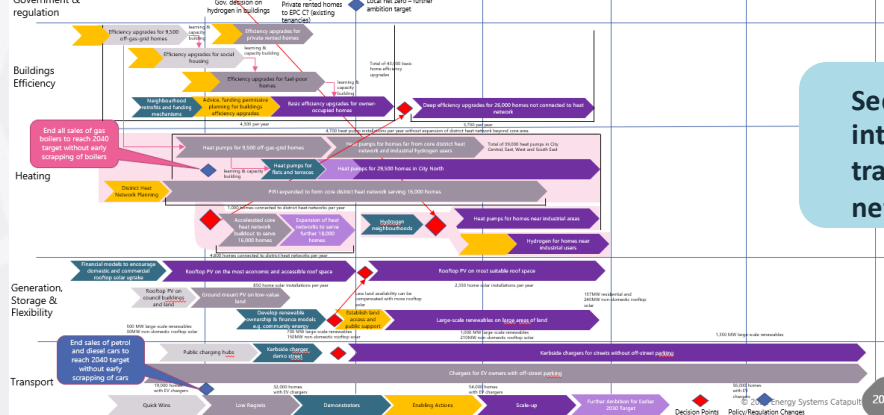
FOCUS ZONE EXAMPLES – WHAT AND WHERE



Focus zone
examples for
fabric retrofit,
district
heating and
EV charging

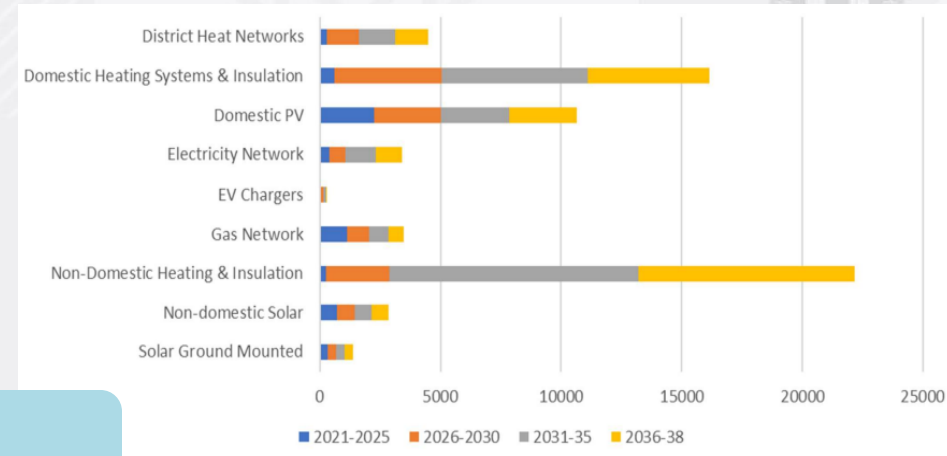


The Pathway



Sequenced plan of
interventions to
transition an area to
net zero

Investment
breakdown



Progressing LAEPs and Net Zero Activity



- LAEPs provide confidence that the activity and projects your delivering will help you to reach net zero cost effectively - net zero go can support the delivery of those projects
- However, if you don't have a LAEP, you can still be delivering decarbonisation projects - net zero go can help coordinate and deliver these



Find out more

Find information about your DNO: <https://www.netzerogo.org.uk/s/dno-details>

Guide to working with your DNO: <https://www.netzerogo.org.uk/s/nzg-guide/a1E8d00000012DYEAY/dno-connections>

Guide to overcoming grid constraints (GSE Hub): <https://www.netzerogo.org.uk/s/article/Guide-to-overcoming-grid-constraints>

Guide to Local Planning Legislation: <https://www.netzerogo.org.uk/s/nzg-guide/a1E8d00000012LsEAI/local-energy-planning-legislation>

Emerging Business Models for Smart Local Energy Systems

<https://www.netzerogo.org.uk/s/article/Emerging-Business-Models-for-Smart-Local-Energy-Systems>

Guide to creating a Local Area Energy Plan: <https://www.netzerogo.org.uk/s/nzg-guide/a1E8d00000014vdEAA/creating-a-local-area-energy-plan>

Feedback

Low
Carbon

Feedback

Net Zero Go

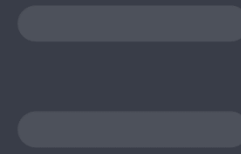
New content

Building a
community

Low
Carbon



CO₂



Net Zero Living Thriving places

James Taplin, Innovate UK



UK Research
and Innovation



Department for
Business, Energy
& Industrial Strategy

Net Zero Living: Our Vision



For UK places and communities to thrive through their transition to net zero



We will design and deliver a net zero living product that addresses key barriers, helping innovative businesses to prosper and communities to thrive

This means working to enable markets on the 'demand' side and the 'supply' side, through a step-change 'supply' of great products

THRIVING PLACES:

- show how market barriers can be broken down in practice to enable businesses to access the market opportunity available
- Build capacity & capability in places to address the net zero challenge
- Enable knowledge exchange between places to learn, adapt and accelerate their own plans

USER-FOCUSSED PRODUCTS:

- Enable businesses to develop products designed for us
- Incorporate the needs and wants of diverse populations
- Understand and build on the global opportunity for innovative, user-driven solutions in places

Next Steps

Next steps

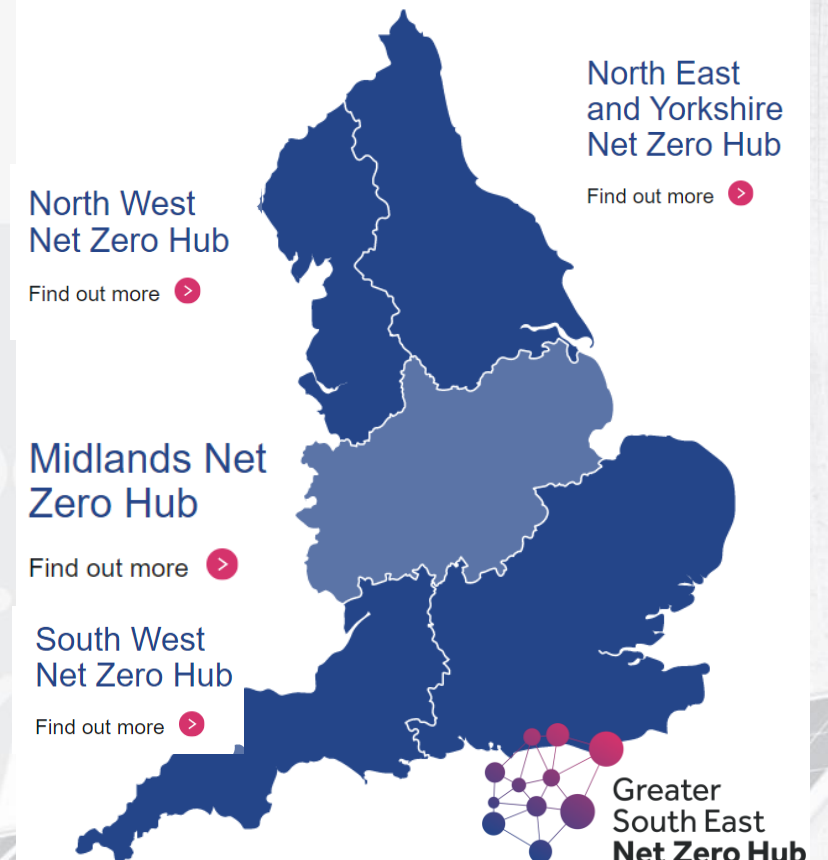
LEVI funding support - working with Energy Saving Trust and Cenex to ensure local authorities are able develop high quality projects with access to the right guidance and tools

National EV Insight & Strategy

Supplying Local Authorities with reliable, independent, up-to-date information about Electric Vehicles (EVs) and EV Charging Infrastructure.



Working with Net Zero Hubs



Find out more

- Register interest for Net Zero Go [here](#)
- Next training session – 10-12 on 9th November
if you are interested get in touch with Gordon Graham – Gordon.graham@es.catapult.org.uk
- For any other queries - contact us through enquiries@netzerogo.org.uk

Thank you for joining us and we look forward to seeing you on Net Zero Go and sharing more with you in the future