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## ANZ Programme Project Partnership Opportunities 2023 – 2024

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Created in 2018 as part of a [World Green Building Council](#) initiative, now in its fifth year, UKGBC's [Advancing Net Zero](#) programme continues to push to accelerate our sector's decarbonisation journey. It continues to produce leading guidance such as the [Net Zero Carbon Buildings Framework](#) the precursor to and supported the drive for the [UK Net Zero Carbon Building Standard](#) currently in development.

Looking ahead, we continue our work to deliver on the ambition set out within the [Net Zero Whole Life Carbon Roadmap](#) to secure our pathway to net zero through:

- **Defining** – ensuring consistency and credibility of net zero carbon building claims.
- **Enabling** – building understanding and knowledge through creating guidance and reports to support the construction and operation of net zero carbon buildings.
- **Implementing** – engaging with professionals to help them put net zero carbon building principles into practice.
- **Advocating** – for progressive policy interventions to drive and raise performance across the whole of the market.

### Project Partner Opportunities this Programme year

Alongside dissemination, engagement and other activities covering areas such as Embodied Carbon Measurement and Reporting Carbon Offsetting and Pricing, Home and Commercial Retrofit, Finance and Valuation, and Renewable Energy Procurement, our intention is to begin at least two new projects in this year, strongly aligned to enabling practical action to accelerate progress towards net zero.

1. **Non-domestic retrofit (building typologies TBC) cost and energy use evaluation**
2. **Building Optimisation Action Learning Labs**

*Anticipated project / lab partner per project - £3,000 - £7,000*

### Project Partner Benefits:

Beyond advancing our shared ambitions and supporting the realisation of critical industry targets, members partnering on projects will also gain multiple direct benefits including:

<b>Driving Meaningful Impact:</b>	<ul style="list-style-type: none"><li>• Credited with enabling the project and guaranteed space on the project group</li><li>• Taking a steering role, helping to shape the project, its outputs, and how these are conveyed</li></ul>
<b>Raising your Brand Profile:</b>	<ul style="list-style-type: none"><li>• Inclusion of your organisation's logo on all project-related outputs and collateral</li><li>• Bespoke social media assets to help promote your organisation's support of the project</li><li>• Opportunities to present at project output launch and/or related events</li></ul>
<b>Extending your Network:</b>	<ul style="list-style-type: none"><li>• Collaborate with other industry leaders</li><li>• Access to a broad network through which to extend your reach and build new relationships</li></ul>
<b>Developing your Staff:</b>	<ul style="list-style-type: none"><li>• Individuals will gain unique experience and improve their knowledge</li><li>• Engage with a diverse set of stakeholders and collaborate to co-create tangible solutions</li></ul>

**Get in touch:** More information will be available on project partnership will be available on UKGBC's website from September. In the meantime, please do register your interest to be a project partner and share any initial views you may have on the scope by emailing us as [ANZ@ukgbc.org](mailto:ANZ@ukgbc.org).

*Please note becoming a Project Partner is only open to UKGBC members. To find out more about becoming a member, visit our [Membership webpage](#) or get in touch with our Membership team at [Membership@ukgbc.org](mailto:Membership@ukgbc.org).*

# 1. Closing the Gap towards Net Zero Carbon: Non-Domestic Retrofit

## Overview

Building on the learnings and base methodology formed from our current [Commercial Retrofit project](#), and driven by addressing the challenges to accelerating the decarbonisation of the UK's non-domestic buildings, we are seeking to expand this workstream to cover more non-domestic buildings types. Further growing the evidence base of the cost and carbon impact of different retrofit measures, and strategies, that offer a pathway towards net zero. Currently, planned typologies include:

- **Hotels:** High energy usage, high level of duplication of specific examples (chain hotels), high number of touch points to potentially influence public awareness.
- **Schools:** High potential for social value, education and community engagement, energy costs and poorly maintained facilities are a significant challenge for many schools.
- **Higher Education facilities:** High synergy with offices, opportunity for education and more in-depth research collaboration
- **Public buildings:** Libraries, Leisure Centres, Local Authority offices, etc.
- **Retail:** Supermarkets etc.

## Objectives

- To deepen awareness and understanding amongst investors, owners, managers, designers, and consultants of the carbon and cost-effectiveness of different retrofit measures to inform planned upgrades to existing non-domestic assets, and,
- Explore how to overcome common challenges to maximise compliance with future regulations and to meet the likely ambition behind emerging net zero carbon performance targets.

## Outline

1. Develop a suite of evidence that explores and provides the cost, operational energy efficiency potential, and embodied carbon impact, as well as any co-benefits associated with common retrofit measures for different types of properties, to offer a path of sequential design, operational, and management solutions to set buildings on a path to close the gap to net zero carbon.
2. Focus on one or more non-domestic building typologies based on age, specification standard, HVAC system, and lease type, etc. to explore the variety of different challenges faced by stakeholders looking to decarbonise their/their clients' assets.
3. Collate real-world examples of retrofit measures (light, deep, optimisation focused), to illustrate and compare the true impact of different retrofit solutions that facilitate the transition towards net zero, showcasing effective outcomes alongside lessons learnt.

## Anticipated outcomes

- Help strengthen and consolidate the business case for retrofit
- Enable shared learning and a deeper understanding of the carbon reduction potential and associated cost benefit
- Leverage key market trends, and focus pressure on Government through defining key policy asks that could further accelerate non-domestic related retrofit strategies.

## 2. Operational Building Optimisation Action Learning Labs

### Overview

An important aspect of change needed to achieve the UKs 2050 target is the practical actions to ensure buildings maintain a net zero trajectory over their operational lifetime.

An emerging finding of the current UKGBC [Commercial Retrofit project](#) is the significance of optimisation. On average, almost one **third reduction in EUI** can be achieved through optimisation alone (i.e., ensuring the building systems and appliances are operating as efficiently and effectively as possible, and that their operation more accurately aligns with building use – i.e., operating hours and zoning etc).

While technological solutions play an important part, increased awareness and closer collaboration are essential to ensure building systems can be optimised holistically, with positive impacts on occupant comfort.

There is plenty of anecdotal evidence on how optimisation can be achieved but a lack of tangible evidence that illustrates the most common issues and supports understanding of how to resolve them for the long term.

### Objectives

Using UKGBC's Learning Lab format, this project will explore the challenges and solutions associated with reducing and eliminating inefficiencies to drive down energy consumption. It will share the learnings, outcomes, and solutions identified and deepen our shared understanding of how inefficiencies stem from the way buildings currently operate. Key issues that could be investigated include:

- Lack of transparency of data, especially energy usage.
- Inappropriate metering of energy.
- Lack of detailed understanding of how building systems operate.
- Split incentives between landlord and tenant.
- Lack of collaboration between landlord and tenant over energy efficiency.
- Facilities managers not incentivised or empowered to reduce energy consumption.

There are technological solutions to these issues, but at the core is a need to **collaboratively take action** and facilitate increased awareness, so that building systems can be optimised holistically, for the long term.

*UKGBC has a long history of convening diverse stakeholders to transform the way we think about, design and manage our building through collaborative learning and action programmes. UKGBC Learning Labs are collaborative programmes, in which multi-disciplinary teams come together to discuss or work on solutions to a topic and share the experience with their peers. Labs usually comprise a series of workshops over a defined period of time focusing on a specific topic with outputs shared with industry and other relevant stakeholders to support all. Previous examples include [Retail Wellbeing Labs](#) and [Physical Risk Labs](#)*

### Anticipated outcomes:

- Compendium of experience of how to optimise buildings' energy use
- Toolkit to support optimisation activities, including the soft skills needed to support mutually beneficial relationships and collaboration between key stakeholders (tenant, landlord, facilities manager etc)
- Increased knowledge and skills base to encourage a focus on optimisation opportunities and solutions
- Insights into the most appropriate interventions in different situations
- A shift in thinking that supports an iterative, long-term approach to optimising performance.