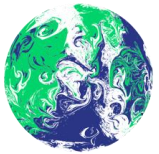




# Net Zero Whole Life Carbon Roadmap for the UK Built Environment



#BUILDINGLIFE

IKEA Foundation 

Laudes ———  
— Foundation





# UKGBC

A charity with over 600 member organisations spanning the entire sector, we represent the voice of the industry's current and future leaders who are striving for transformational change.

## We collaborate

by convening diverse built environment organisations to engage in a common purpose

## We enable

by developing guidance, showcasing solutions and stimulating innovation

## We advocate

by calling for ambitious commitments, stronger standards and progressive policy

## We inspire

by sharing knowledge and best practice, and encouraging transformational leadership



# JOIN

## #BUILDINGLIFE



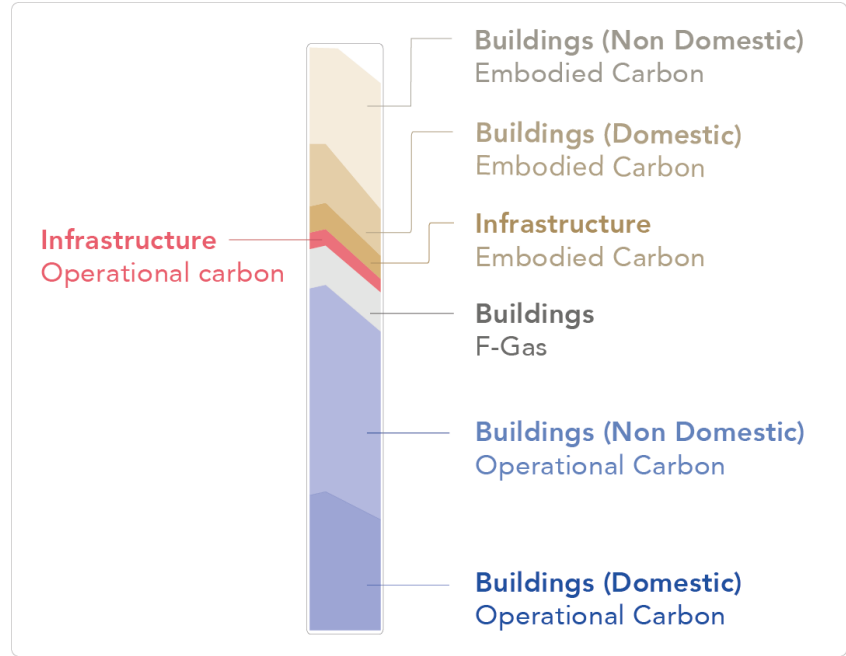
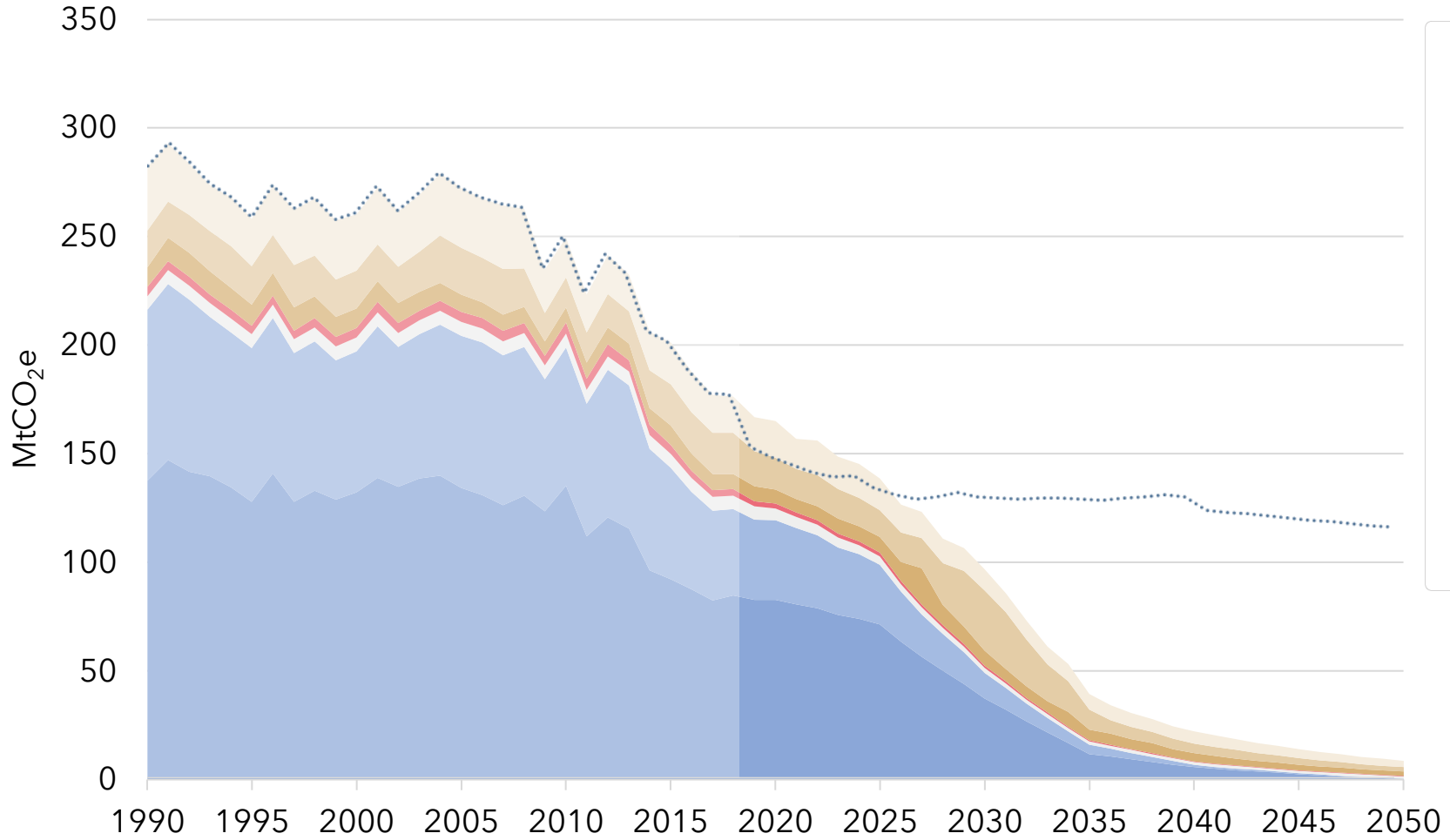
## Project Vision

To develop a roadmap of actions, and secure the support of industry stakeholders, to deliver decarbonisation of the total impact (whole life cycle) of the built environment in the UK.

# Key Roadmap Elements

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- **Carbon Footprint for the UK Built Environment**
- **Net Zero Scenario**
- **Policy Recommendations**
- **Stakeholder Action Plans**



..... **Business As Usual**

# UK Built Environment Emissions 1990-2050

# Action Required

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Key Findings

# Nation-wide Retrofitting of Existing Homes

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*To transform UK housing so it is efficient, warm, and cheaper to heat, whilst phasing out fossil fuel heating.*



# Energy Performance Disclosure for Non-Domestic Buildings

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*To ensure that real-world performance of assets is visible to the market, and can influence asset valuation, market transactions, and management decisions.*





# Design for Performance Approach to new buildings

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*To shift away from theoretical “notional building” approaches and focus on real-world energy performance, alongside other key net zero enablers such as peak demand limits.*



# Embodied Carbon Measurements and Limits

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*To start with mandatory measurement, followed by the phased introduction of embodied carbon limits for new buildings, alongside changes to planning and VAT to incentivise the re-use of existing buildings.*



# National Infrastructure Investment Based on Net Emissions Impact

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*To consider all forms of carbon, alongside a policy framework and investment to drive industrial decarbonisation of key construction supply chains.*



# Final Roadmap Outputs

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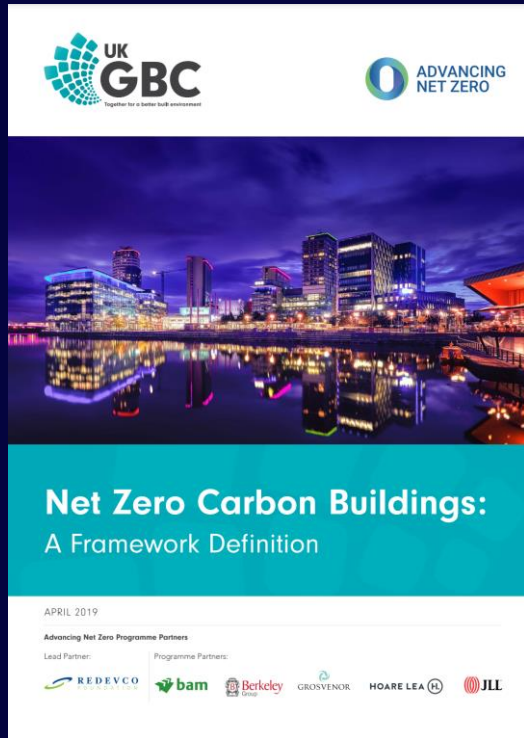
- A Pathway for the UK Built Environment
- Technical Report
- Summary for Policy-Makers
- 14 Stakeholder Action Plans

# Industry Launch Event

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8 December

# Resources



**UK GBC**  
Together for a better built environment

**ADVANCING NET ZERO**

## Net Zero Carbon Buildings: A Framework Definition

APRIL 2019

Advancing Net Zero Programme Partners

Lead Partner: **REDEVCO**

Programme Partners: **bam**, **Berkeley**, **GROSVENOR**, **HOARE LEA**, **JLL**



### CASE STUDY: NOMA

NOMA is an eight-hectare regeneration area to the north of Manchester City Centre of new commercial buildings and a significant placemaking programme, including new public realm, events programme and community ...



### CASE STUDY: Timber Square

A planned office-led development with retail activation, addressing both construction and operational emissions.



### CASE STUDY: Blackpool Victoria Hospital

The proposed development is an extension to the Emergency Department of Blackpool Victoria Hospital which would provide 14 critical care beds and hospital staff accommodation, and would require the demolition o...



### CASE STUDY: Westgate, Oxford

A shopping centre in Oxford that has offset landlord energy use over 30 years through embodied carbon savings at construction.



### CASE STUDY: Zero Carbon House, Birmingham

A zero carbon home retrofit.



### CASE STUDY: Dorset House

An energy positive house in Dorset that has been built to Passivhaus standards and recycles rainwater on-site.

# Case Studies

## **COURSE: Build Better Now – COP26 Virtual Tour**

Virtual tour showcasing best practice projects across a range of sustainability concepts



### **WHEN**

November 18, 2021  
12:00 pm - 1:30 pm

### **WHERE**

Online

### **SHARE**

