

Property & Construction Summit

Sarah Frith

Head of Design







Now or Never - our drive for change - Bing video

Themes & Enablers





Better Planet - Our Ambitions





Building Lives - Our Ambitions

We will deliver high-impact social value which we can demonstrate meets the needs of local communities



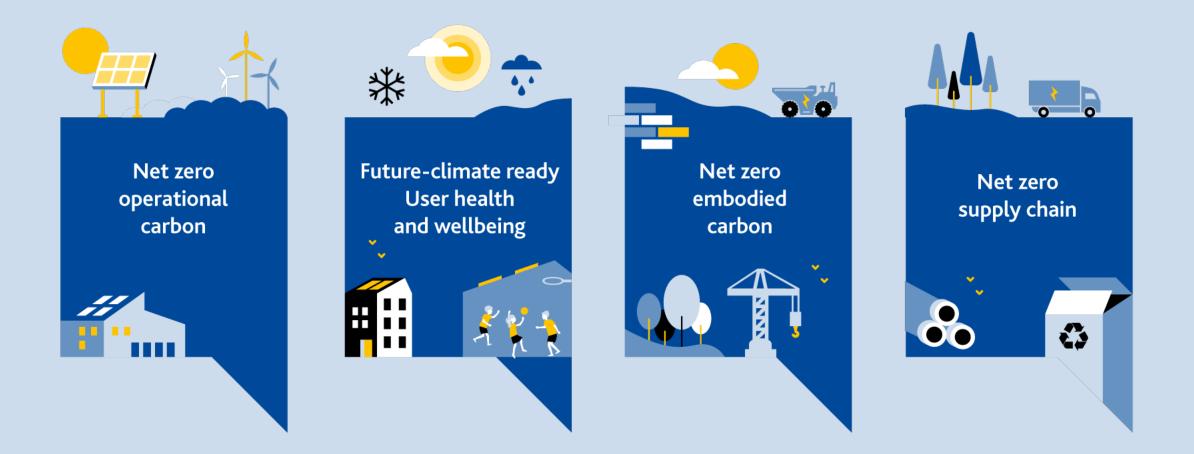


How we do business will set the standard for social value in our sector



We will support people who face significant barriers to be in, or on the path to, good careers

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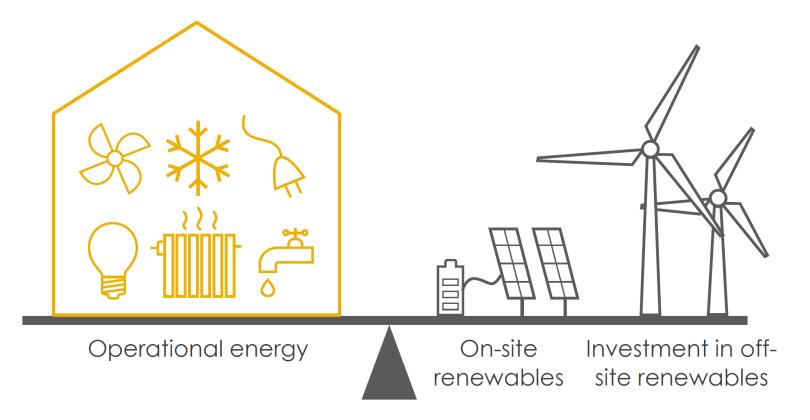


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NET ZERO CARBON means.....?



Net zero operational balance

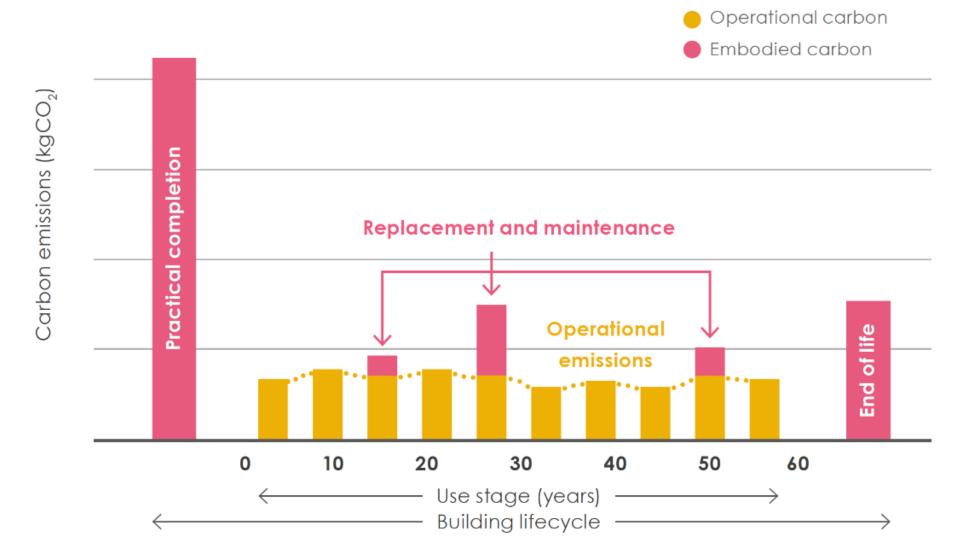


Figure iii - Emission breakdown of a building's life cycle

NET ZERO OPERATIONAL CARBON means.....?

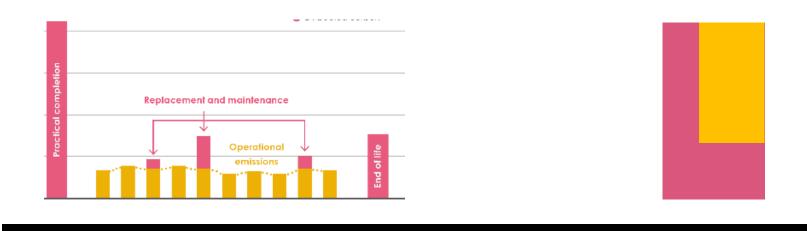


Operational lifecycle carbon emissions



Renewable energy & offsets

NET ZERO WHOLE LIFE CARBON means.....?



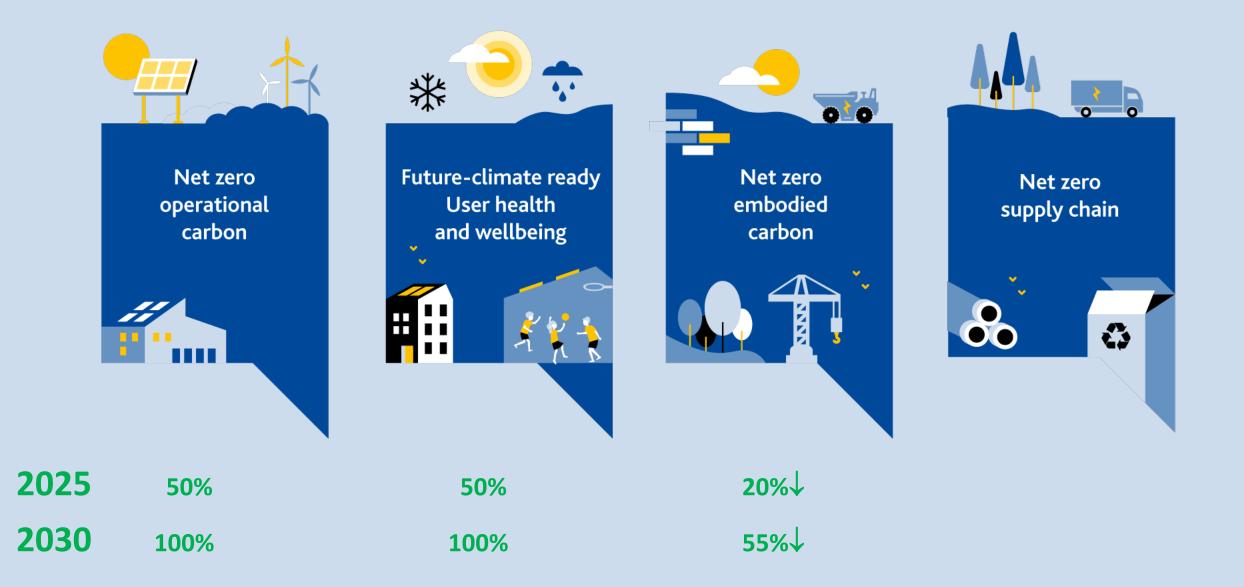
Whole lifecycle carbon emissions



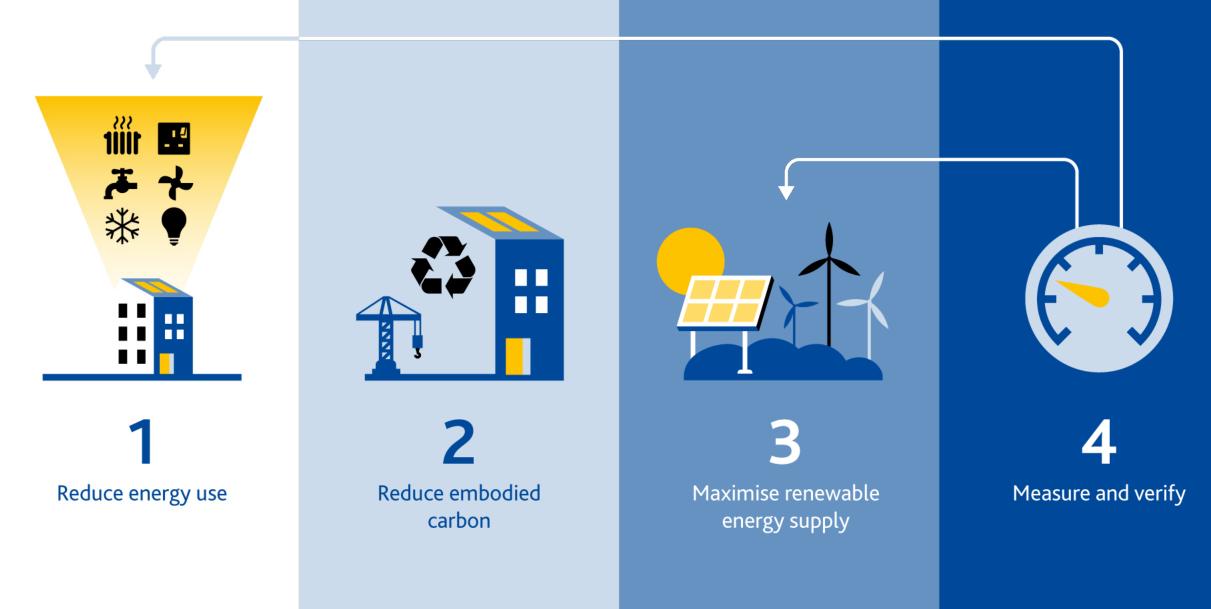
Renewable energy & offsets

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2025/ 2030 NoN goals...



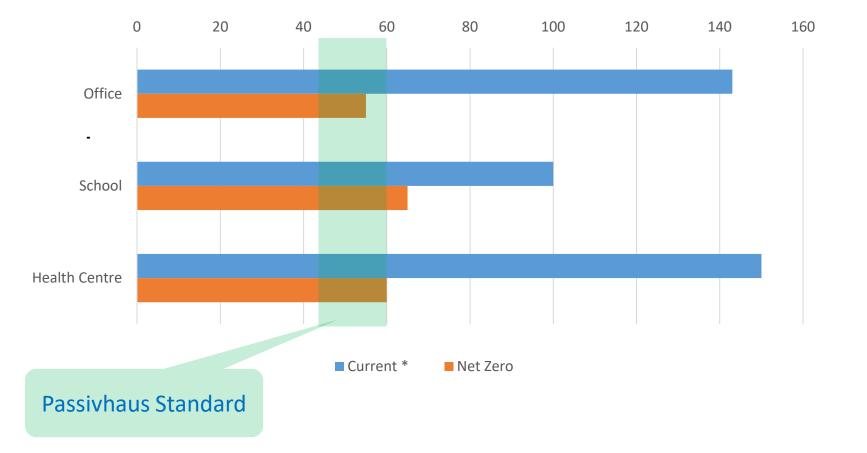
Net zero carbon buildings – the process



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Step 1 – Reduce energy use - how low do we need to go ?

Energy Use Intensity (EUI) – kWhe/m2.yr





* Typical UK sector benchmark for all ages/sizes – CIBSE TM46



Engage Supply Chain

Bring suppliers on board early

Learn from earlier works

What else are they delivering

Create aligned outcomes

Passivhaus projects journey





University of Leicester, George Davis Centre



Harris Academy Sutton



Hackbridge Primary School



Spelthorne Leisure Centre



Caerphilly Council Homes

St. Peter's College, Oxford

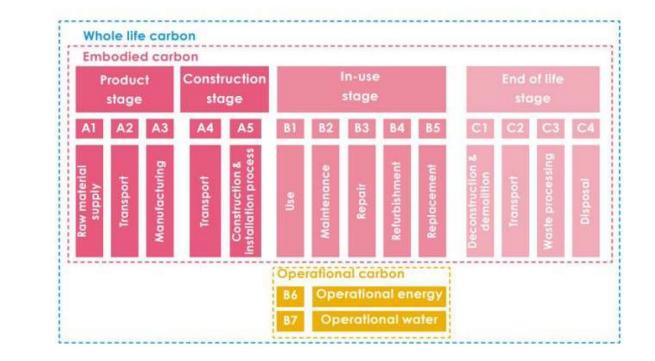


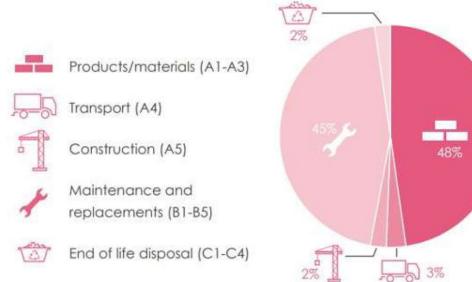
Westmead (bid)



Our approach to tackling embodied carbon

Two areas of focus





Average split of embodied carbon per building element: - 48% - Superstructure embodied 17% - Substructure carbon by 40% or to: 16% - Façade 15% - MEP 4% - Internal finishes Area in GIA

Reduce

6

Taking action to reduce it

- Understand your project's • carbon profile
- Identify the big tickets items •
- Understand your options and • increase transparency

Embodied Carbon - Assessment & Reduction





Sustainability at the heart of design

Sustainable construction is one of our core values. To support this, we have partnered with Architype, the UK leaders in net zero carbon and Passivhaus design, to ensure that our platform delivers housing fit for today and without impact on future generations.

Our homes are net zero carbon in operation. Our homes contain lower embodied carbon. Our homes have lower running costs. Our homes benefit from full life cycle analysis.

Click here to learn more about our **Now or Never** Strategy and how we plan to deliver Brilliant Buildings, Build Lives, and enable a Better Planet.



Design for Monitoring

Reduce the Energy Gap

Post Occupancy Evaluations need to be planned and contracted

Seasonal Commissioning is a must, not a nice to have

Use your data to learn and refine

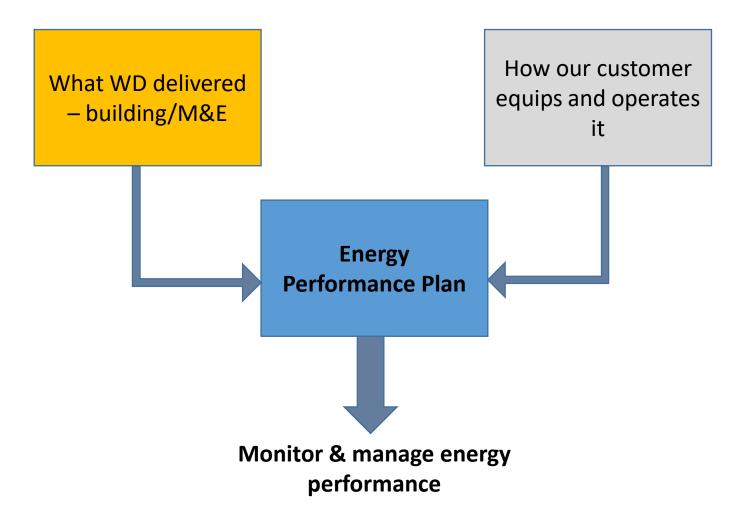
Energy Synergy[™]

+ Warwick University Sports Hub



Energy SynergyTM

.....delivering better energy performance outcomes



Improved outcomes for customers

Focus areas for 2022



High quality net zero operational carbon design option reports on all new projects

• Secure our first community solar project contracts

 Robust and simple embodied carbon assessments completed on all new projects and trusted advice given to customers



Thank you

Sarah Frith

Head of Design

