





Ashley Road

Path to net zero carbon

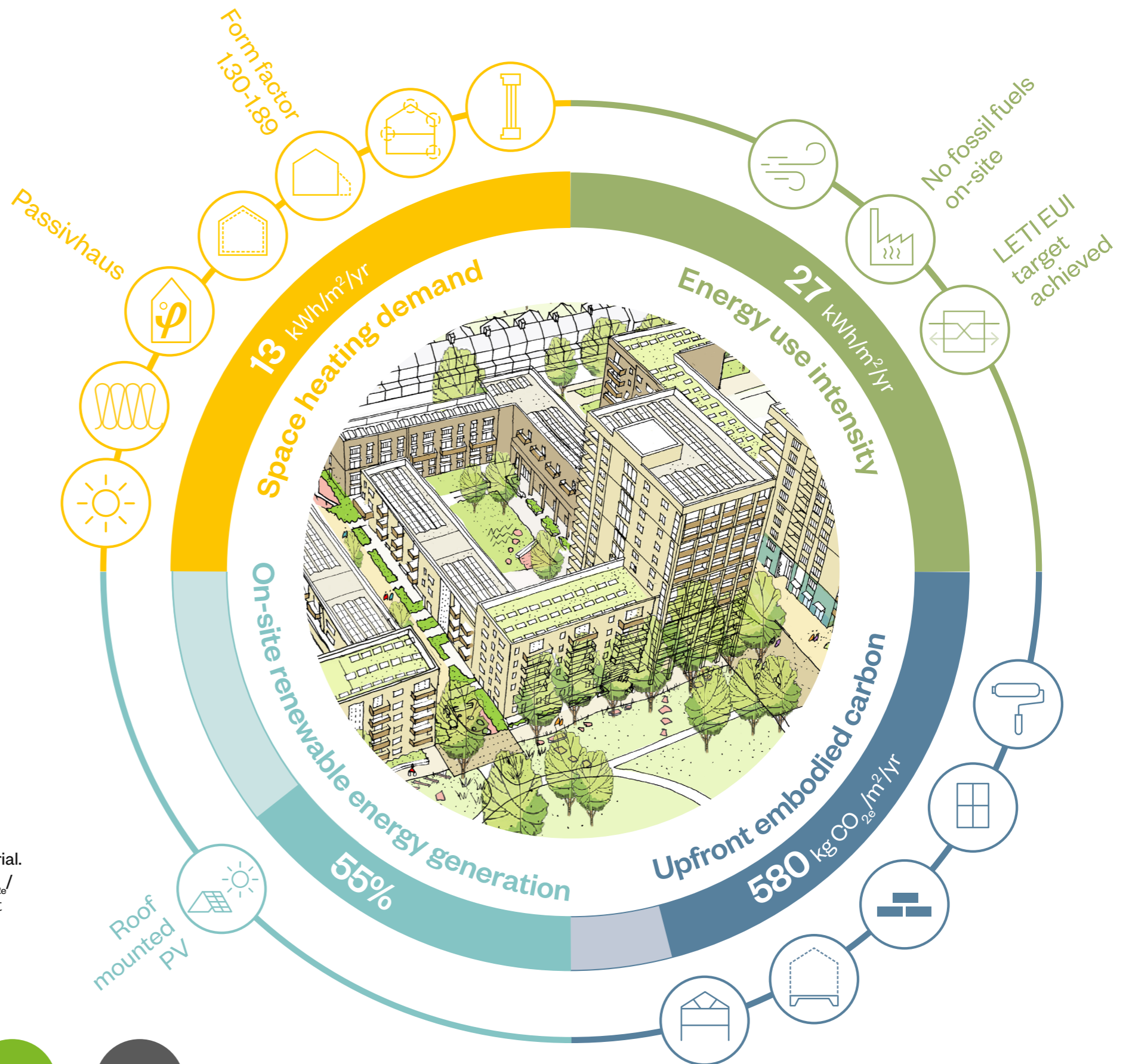
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Performance of the building form and fabric
The space heating demand (SHD) demonstrates the efficiency of the building. Ashley Road achieves a SHD of 13 kWh/m²/yr. This is less than the CCC recommendation of 15-20kWh/m²/yr and significantly less than a standard London Plan compliant home of 50kWh/m²/yr.
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Performance of the building and systems
The energy use intensity (EUI) is the total energy used in the homes per sqm and demonstrates the efficiency of the building and systems combined. Ashley Road achieves an EUI of 27kWh/m²/yr this exceeds the LETI and RIBA target of 35kWh/m²/yr. This is significantly less than a standard London Plan compliant home of 90kWh/m²/yr.
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On-site renewable energy generation
Renewable energy generation on-site should ideally be equivalent to the total energy use on-site. At Ashley Road 55% of the total energy demand will be met by on-site renewable energy generation. This is significantly higher than a typical London Plan compliant development which would achieve 5%.
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Upfront embodied carbon
The consumption of materials and resources contributes the carbon footprint of a development and therefore should be minimised. At Ashley Road the design has built-in design measures that aim to reduce the overall consumption of material. On average the scheme is expected to emit around 580kgCO_{2e}/m² this is significantly less than a typical London Plan compliant development of 800kgCO_{2e}/m².



Wider sustainability:

- 84%** Reduction in regulated emissions over Part L
- No fossil fuel on-site**
- Water consumption of <105 l/person/day**
- Urban greening factor is >0.4**
- TM59** Overheating risk assessment complete
- 118%** Biodiversity net gain
- 20% EV charging and London Plan compliant cycle spaces**