Future net zero planning policy – Greater Cambridge

GREATER CAMBRIDGE
SHARED PLANNING

KPIs for net zero homes

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Bioregional

Etude

Currie & Brown

mode

Space heating demand

The amount of **heat energy** needed to heat a home over a year (per square metre)

Space heating demand

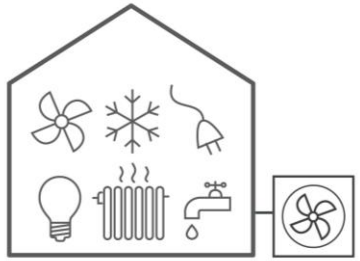
15-20

kWh/m²/yr

- Climate Change Committee recommendation
- LETI Net Zero Definition
- Passivhaus aligned

Energy Use Intensity (EUI)

The amount of **total energy** needed to run a home over a year (per square metre)



Energy use intensity

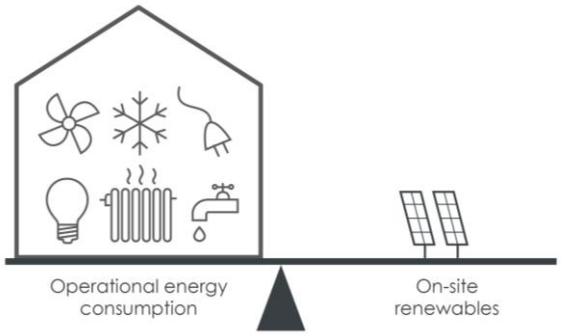
35

kWh/m²/yr

- LETI Net Zero Definition
- Based on likely available zero carbon electricity in the grid in 2050 (National Grid Future Energy Scenarios)

Energy balance

The amount of renewable energy generated in a year matches the EUI



Net Zero Balance

- Reduces demands on the grid
- Contributes to electrification of the grid
- Running cost benefits

Fen Road and Ditton Fields

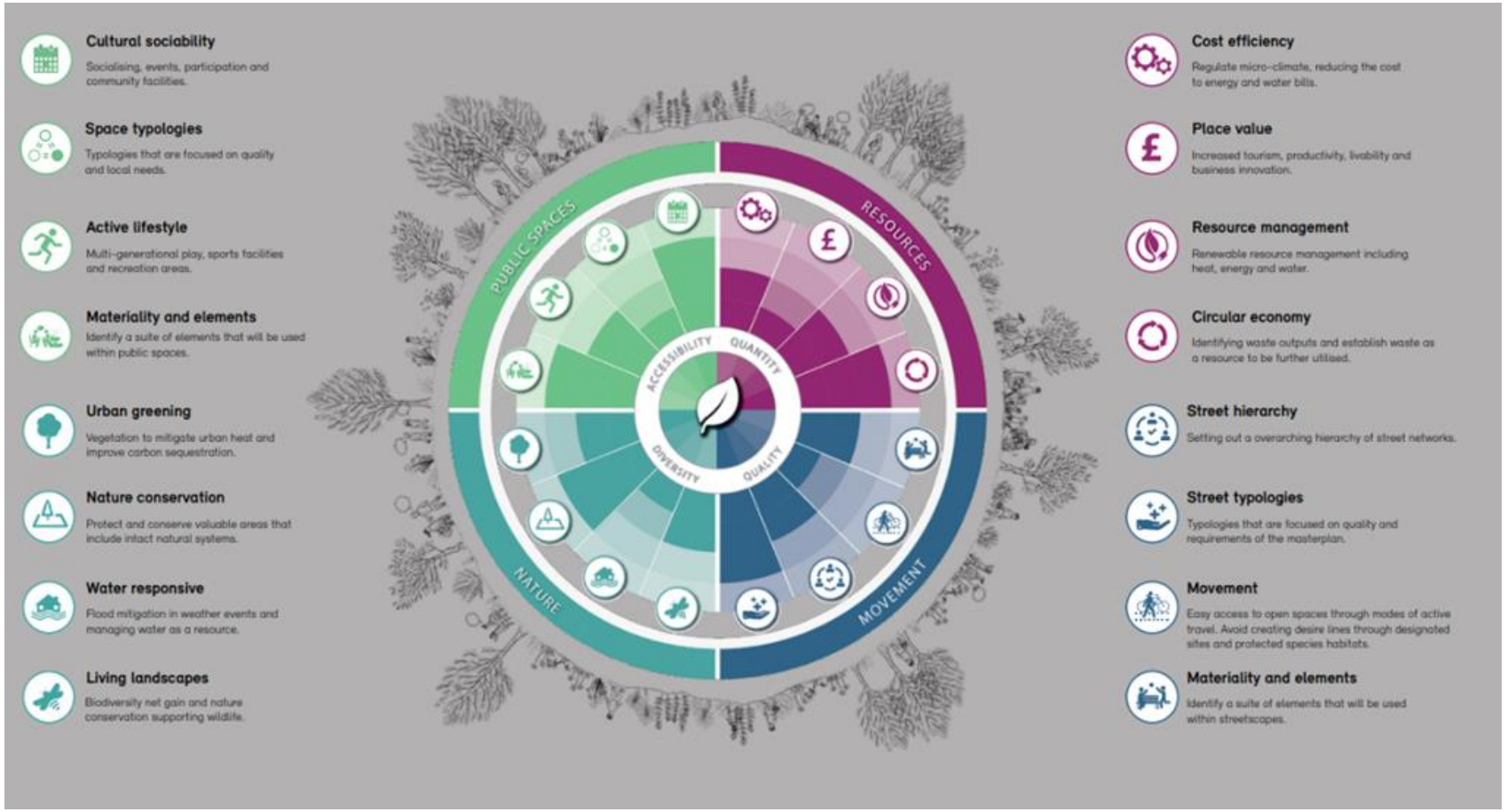
- Social housing units
- Passivhaus certified
- Energy Use Intensity of 35 kWh/m^2/year
- Space heating demand of 15 kWh/m^2/year
- Air source heat pump and photovoltaic panels

Next steps

- Further develop certain aspects of the policy:
  - How compliance with the policy will be demonstrated;
  - Establishment of approach to offsetting;
  - Continue to gather local case studies
- How to approach the issue of embodied carbon.

Changing national policy

- Role of design codes
- Carbon assessments of Local Plans



Carbon emissions in Greater Cambridge

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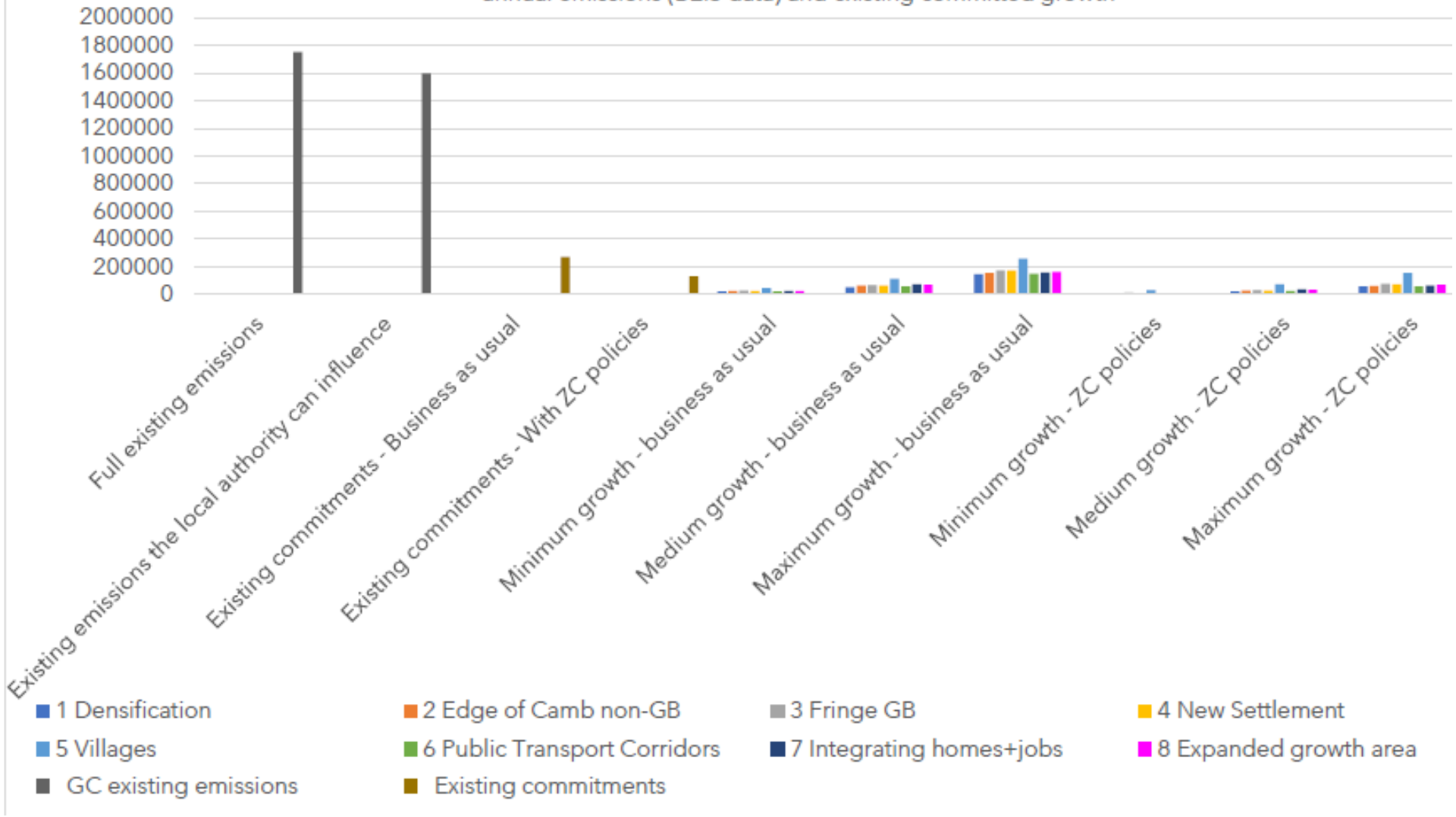
Figure 1: New growth annual energy and transport emissions (tCO_2), compared to Greater Cambridge existing annual emissions (BEIS data) and existing committed growth



Net Zero Carbon – emissions per home