

Climate
Change
Committee

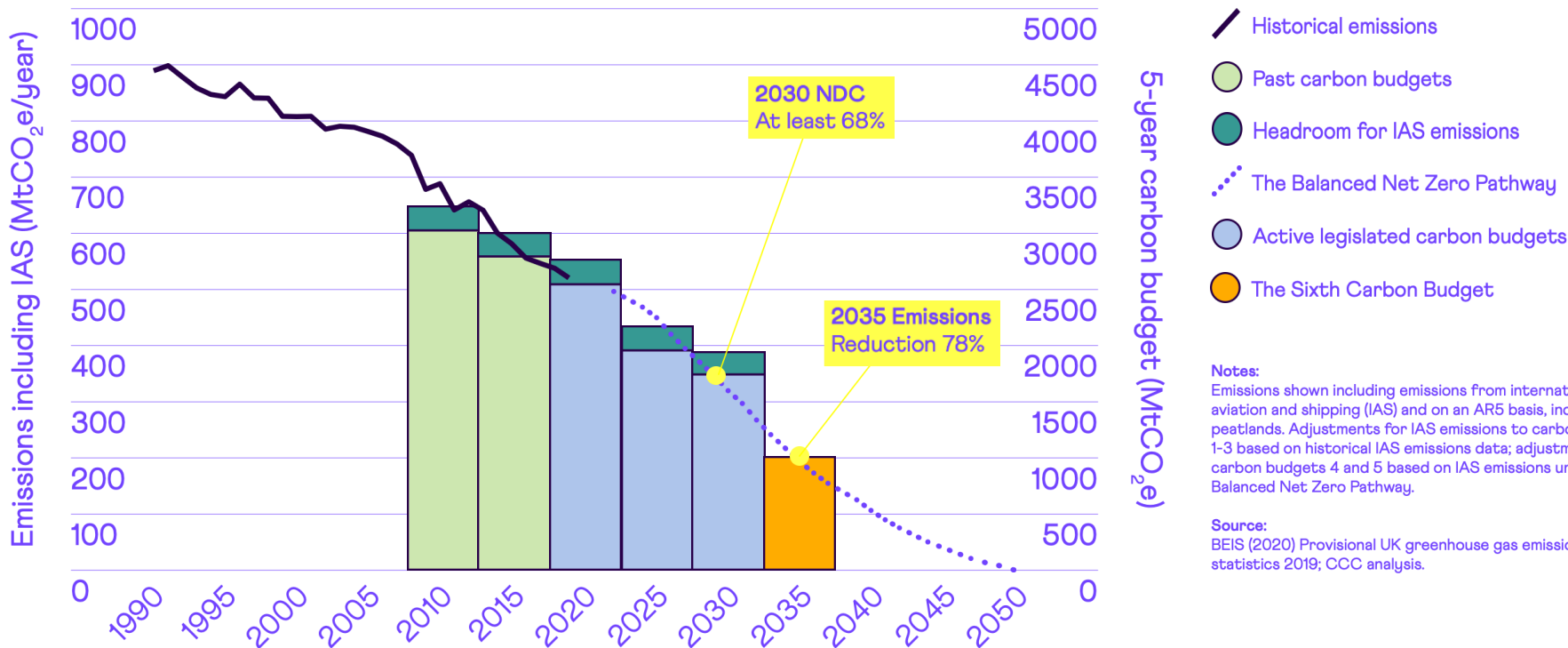
The Path to Net Zero

Advice on the UK's Sixth Carbon Budget 2033-37

Our recommended path

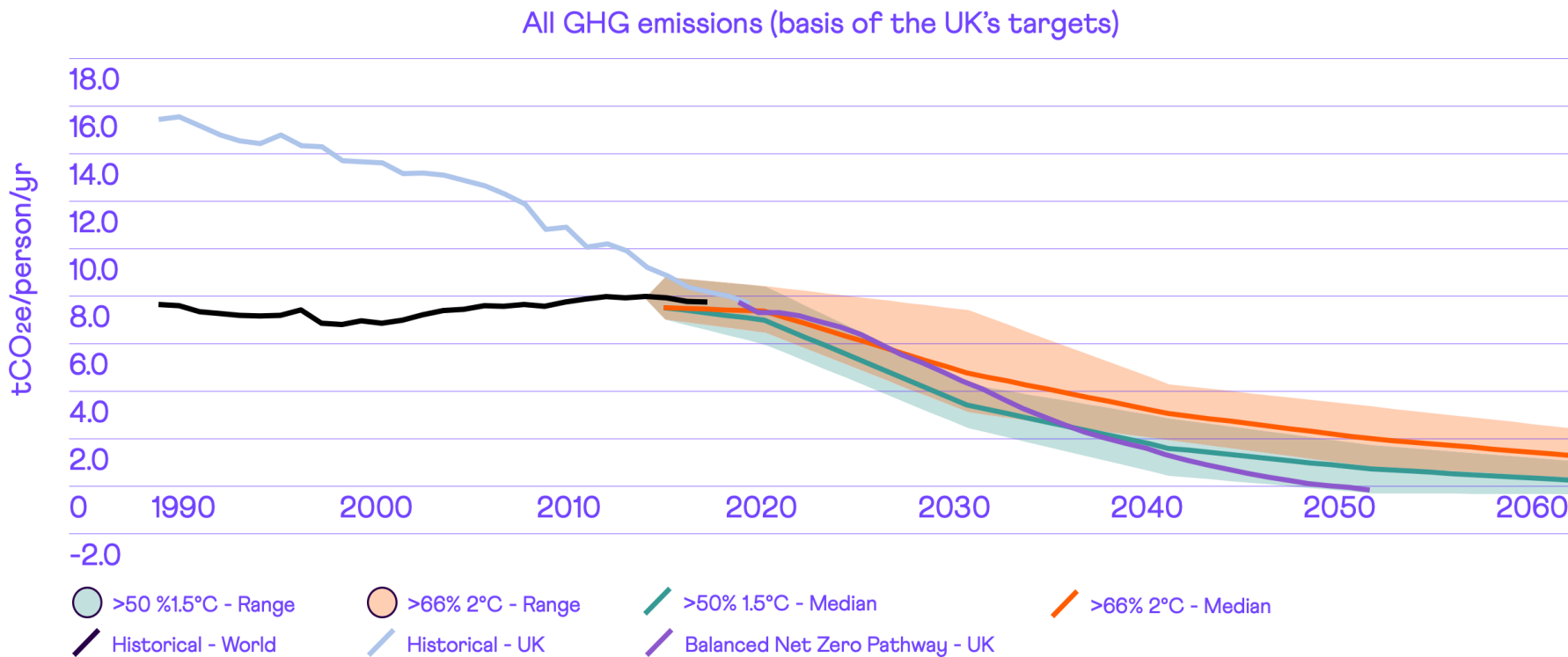
Our recommended path

The recommended sixth carbon budget and 2030 NDC



UK's offer to COP26

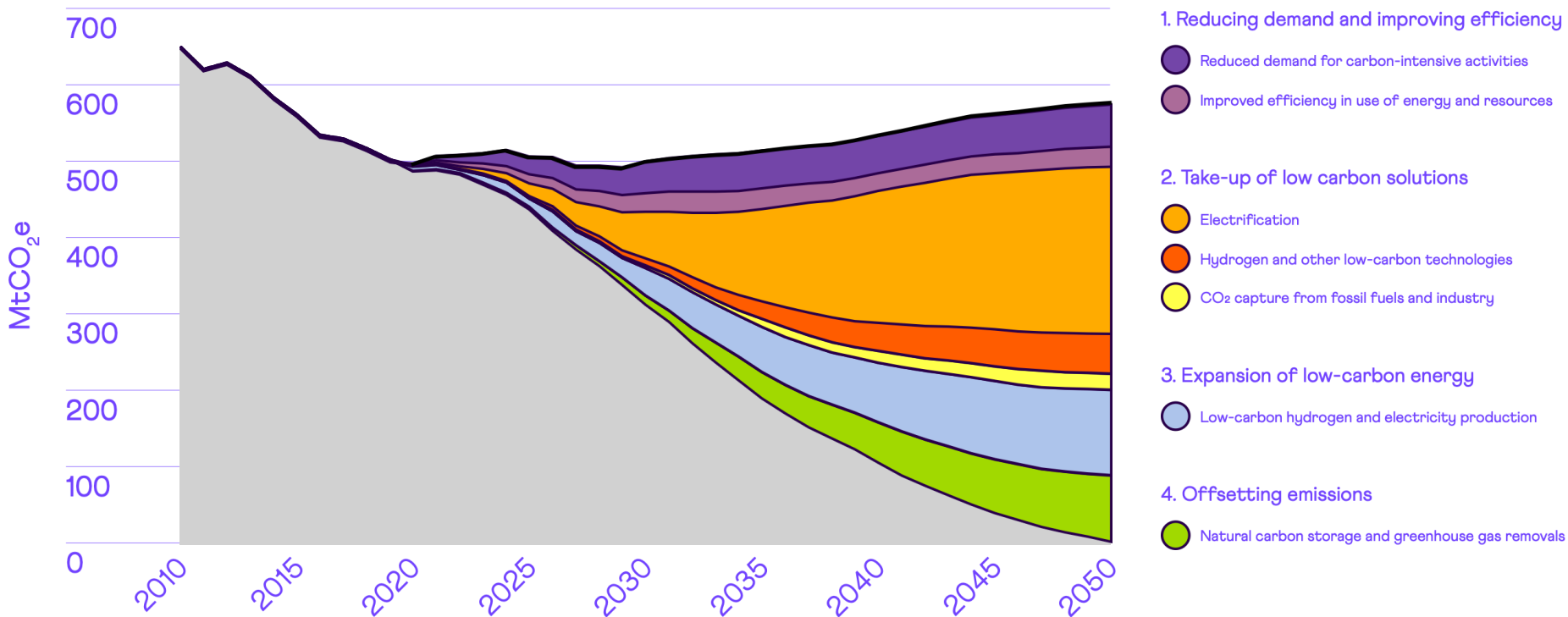
Per person emissions vs global requirements of Paris



Delivering Net Zero

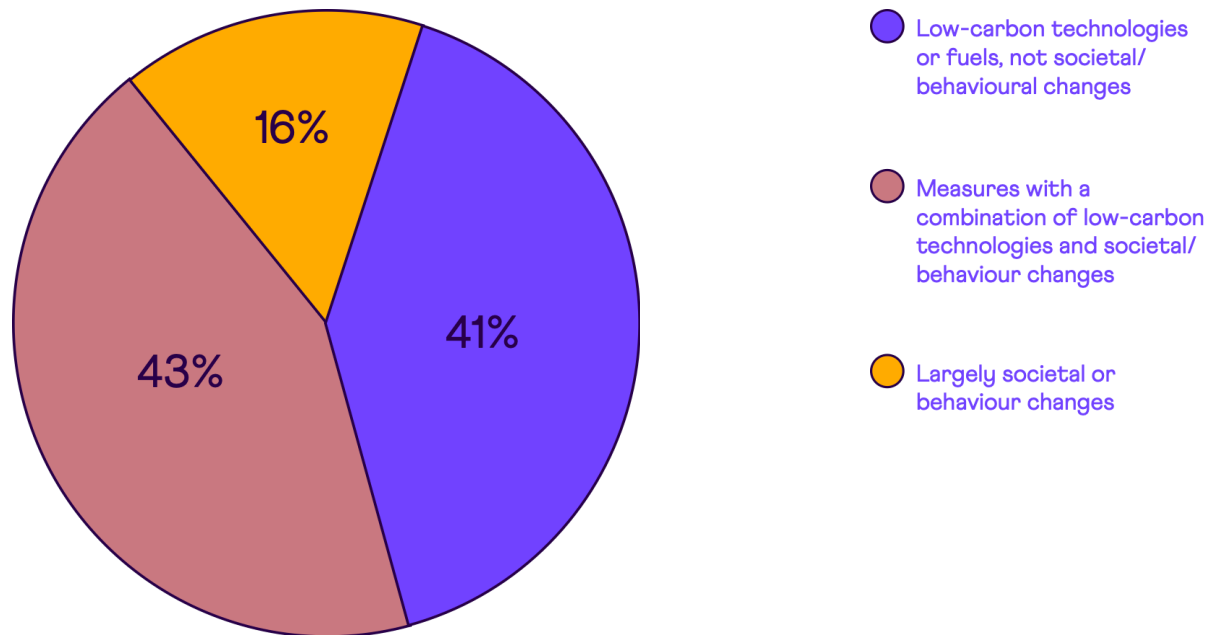
Emissions abatement

Meeting the Sixth Carbon Budget requires actions across four key areas



Delivering Net Zero

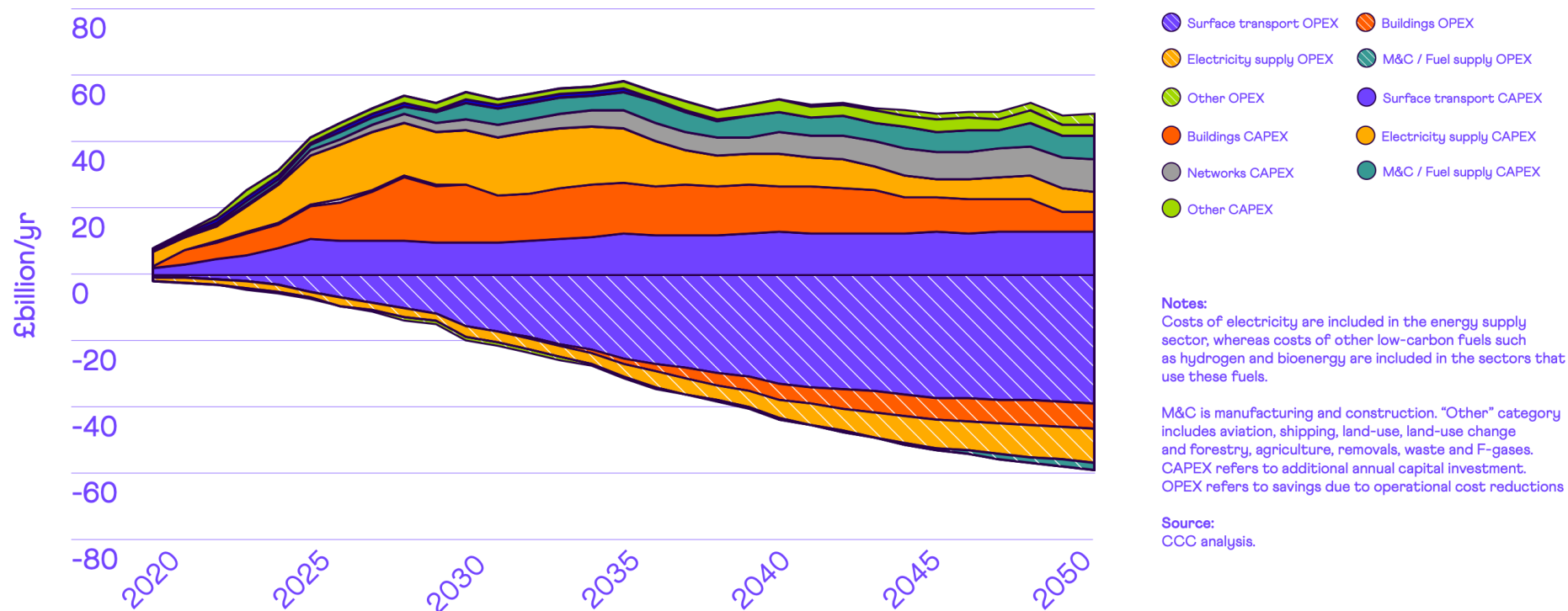
Role of behavioural and societal change in meeting the Sixth Carbon Budget



Source: CCC Analysis

Investing for Net Zero

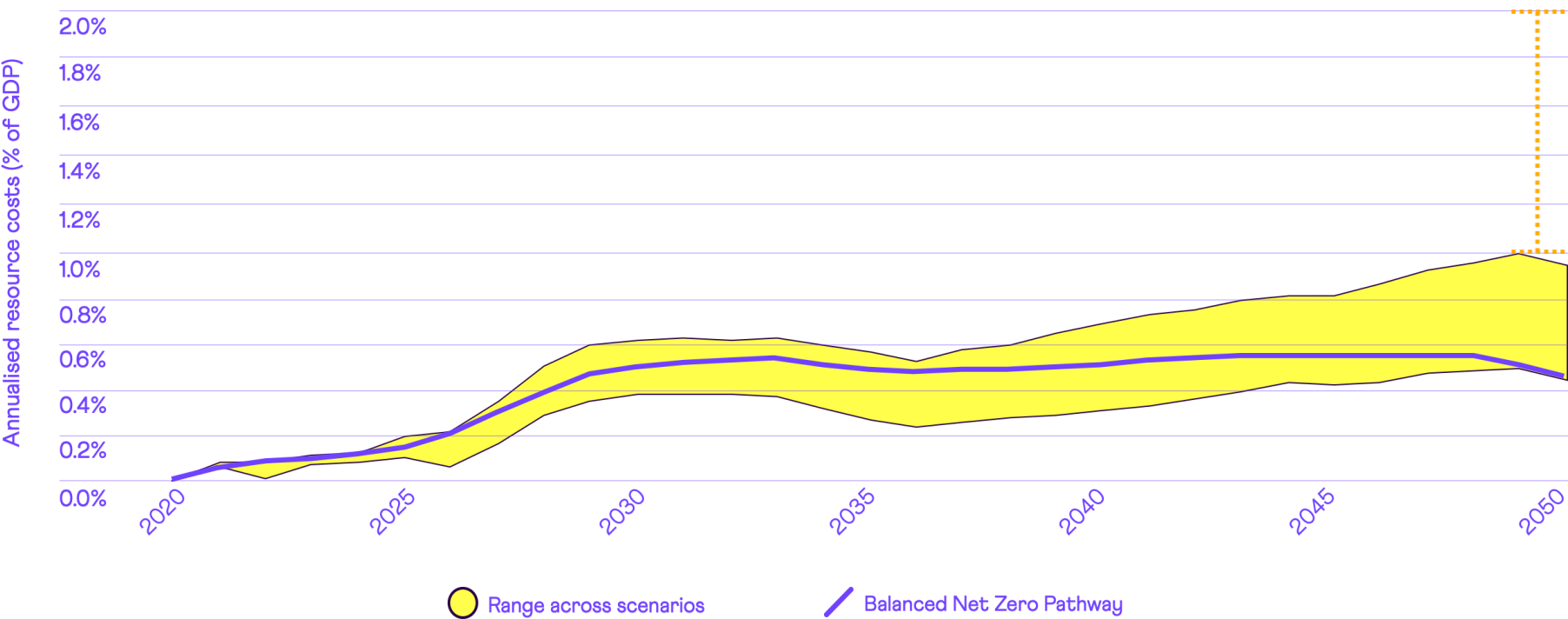
Major investment programme, delivering offsetting operating cost savings



Source: CCC analysis.

Resource costs

Change in resource costs over time as a percentage of GDP



Source: CCC analysis.

What changes will we see on the balanced pathway?

What changes will we see on the Balanced Pathway

2019

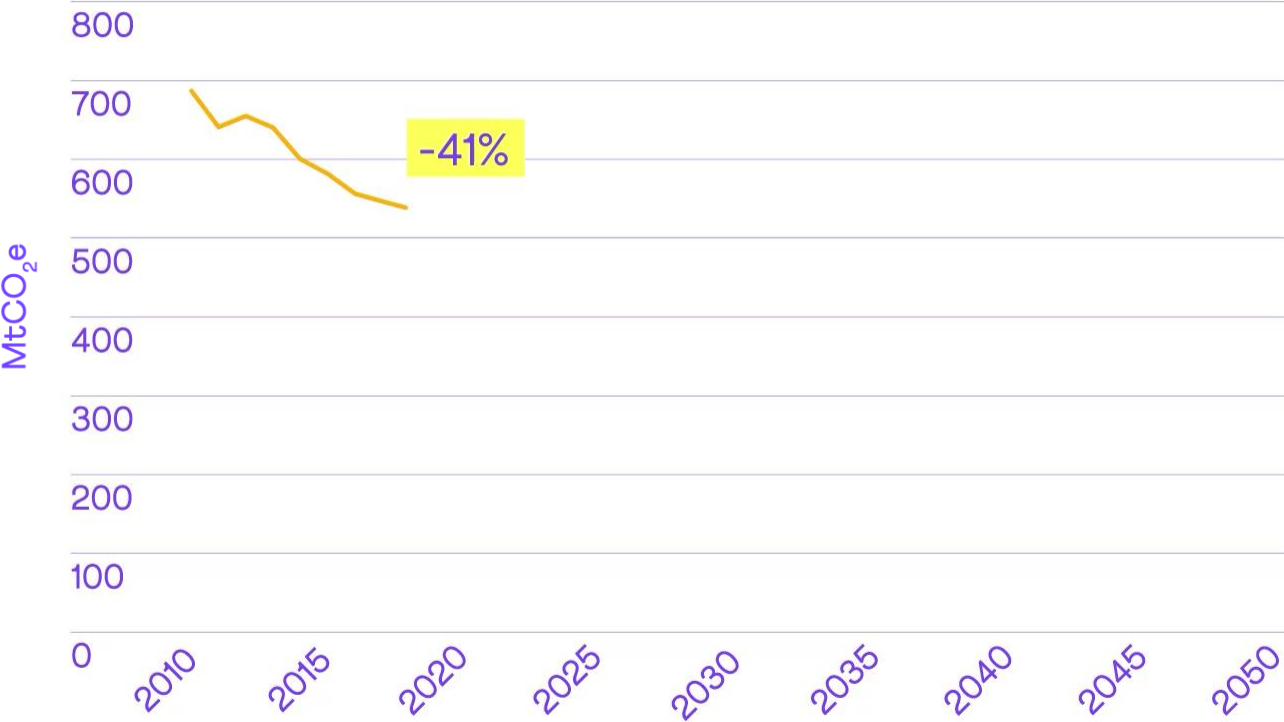


Key developments

| | |
|--|--------------------|
| Meat consumption p/ person (% reduction) | Reduced Demand |
| Insulation fitted (millions) | Reduced Demand |
| EV share of new sales (%) | Low-carbon Choices |
| Low-carbon share of boiler replacements | Low-carbon Choices |
| CCS (MtCO ₂ e) | Low-carbon Energy |
| Electricity (TWh) | Low-carbon Energy |
| Hydrogen (TWh) | Low-carbon Energy |
| Afforestation (kha pa) | Land use |
| Perennial energy crops (kha pa) | Land use |
| Peatland restored (%) | Land use |

What changes will we see on the Balanced Pathway

2025

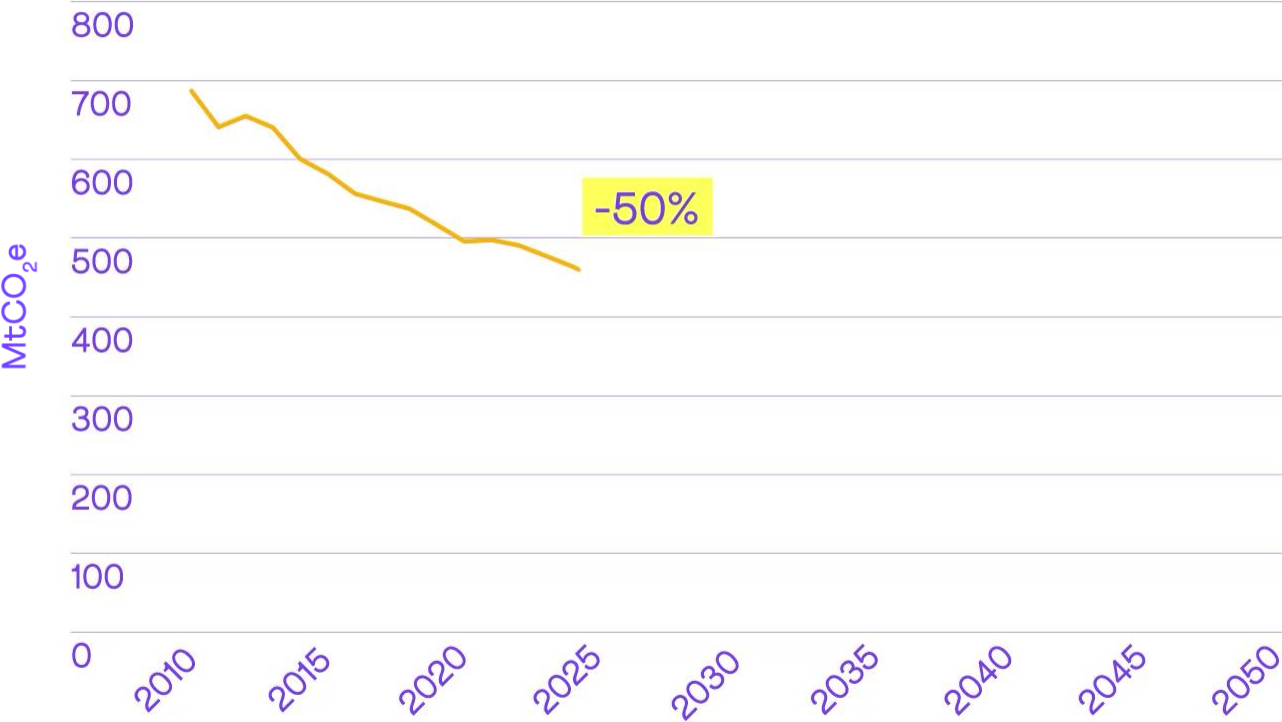


Key developments

| | | |
|--|-----|--------------------|
| Meat consumption p/ person (% reduction) | 0% | Reduced Demand |
| Insulation fitted (millions) | 0 | |
| EV share of new sales (%) | 13% | Low-carbon Choices |
| Low-carbon share of boiler replacements | 11% | |
| CCS (MtCO ₂ e) | 0 | Low-carbon energy |
| Electricity (TWh) | 205 | |
| Hydrogen (TWh) | 0 | |
| Afforestation (kha pa) | 19 | Land use |
| Perennial energy crops (kha pa) | 0 | |
| Peatland restored (%) | 25% | |

What changes will we see on the Balanced Pathway

2030

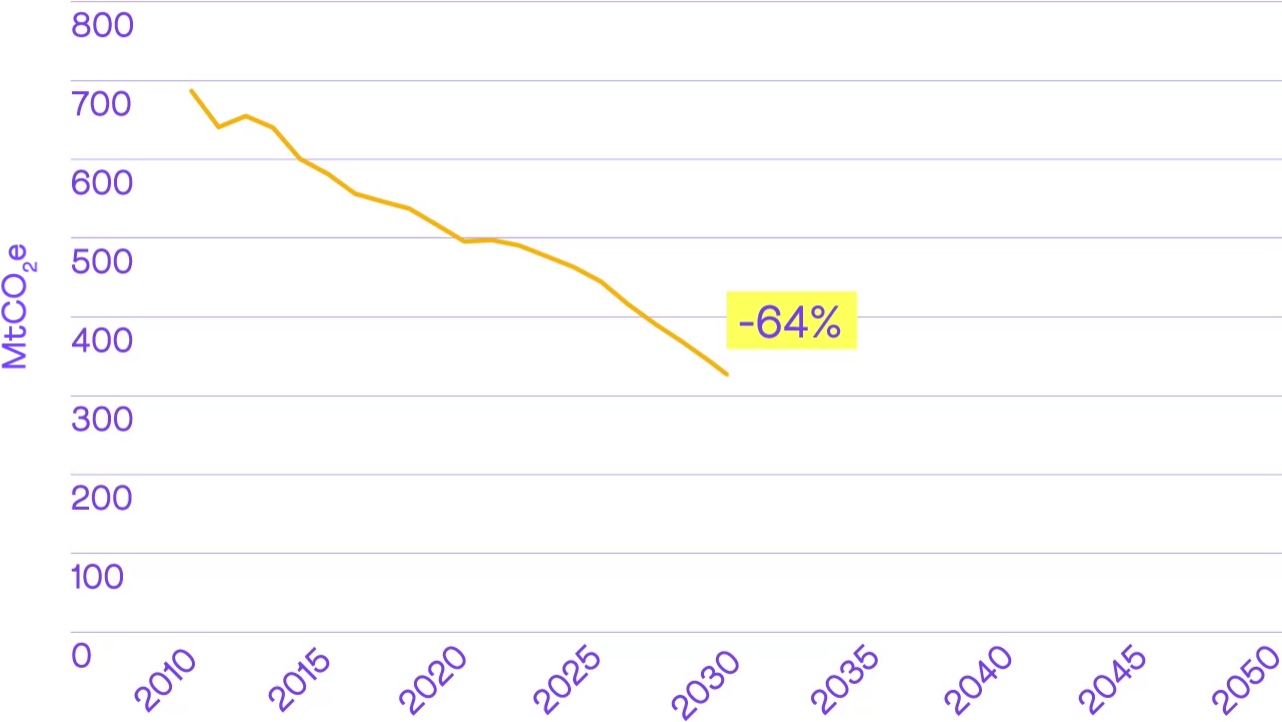


Key developments

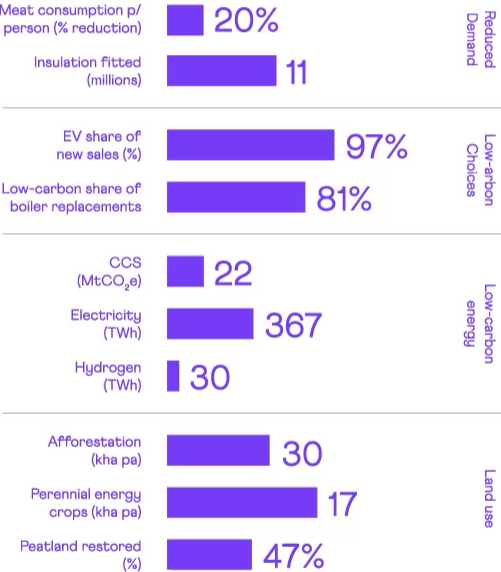
| | | |
|--|-----|--------------------|
| Meat consumption p/ person (% reduction) | 9% | Reduced Demand |
| Insulation fitted (millions) | 4 | |
| EV share of new sales (%) | 48% | Low-carbon Choices |
| Low-carbon share of boiler replacements | 31% | |
| CCS (MtCO ₂ e) | 0 | Low-carbon energy |
| Electricity (TWh) | 238 | |
| Hydrogen (TWh) | 1 | |
| Afforestation (kha pa) | 30 | Land use |
| Perennial energy crops (kha pa) | 5 | |
| Peatland restored (%) | 36% | |

What changes will we see on the Balanced Pathway

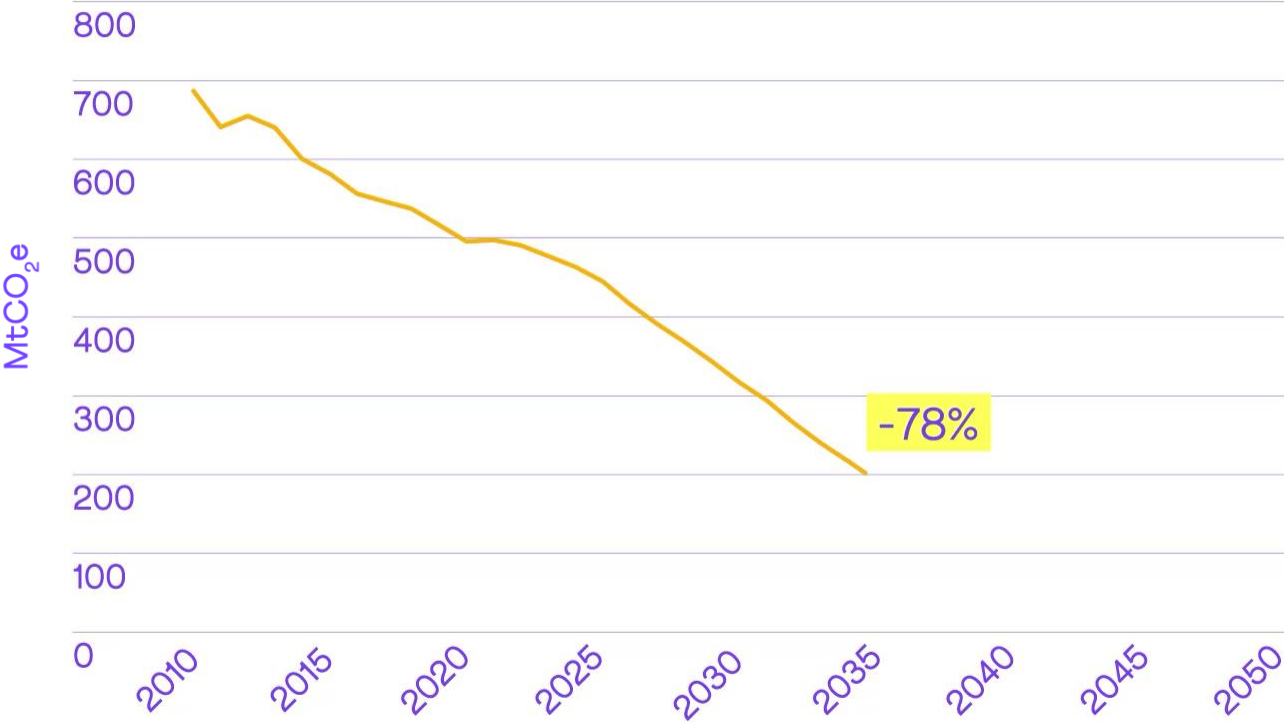
2035



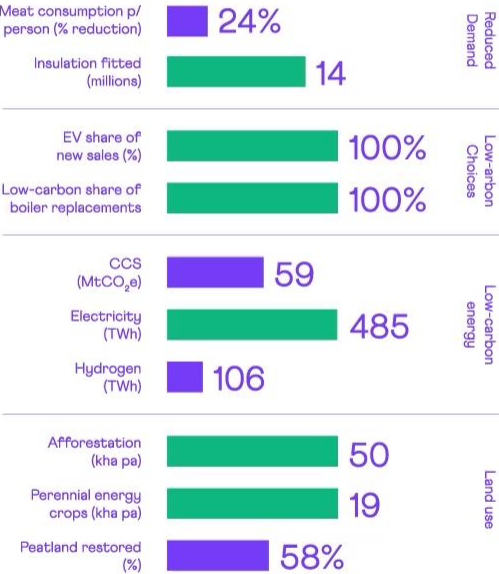
Key developments



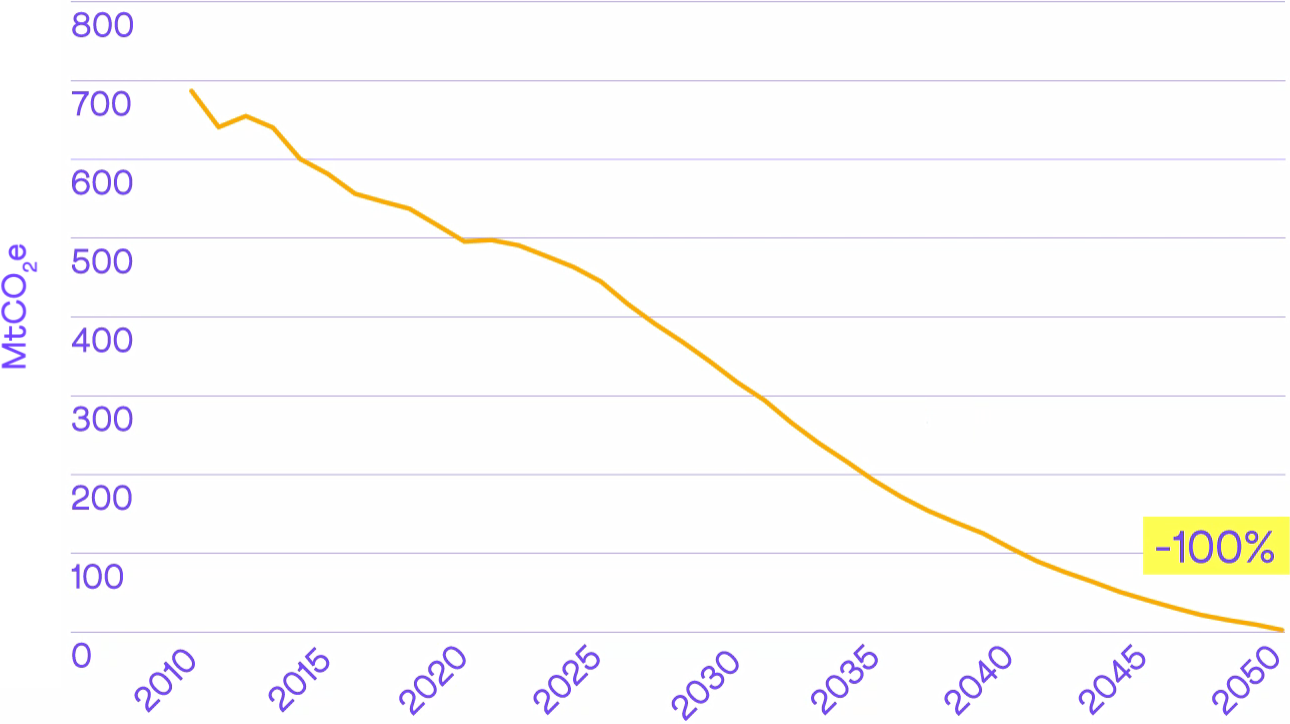
What changes will we see on the Balanced Pathway 2050



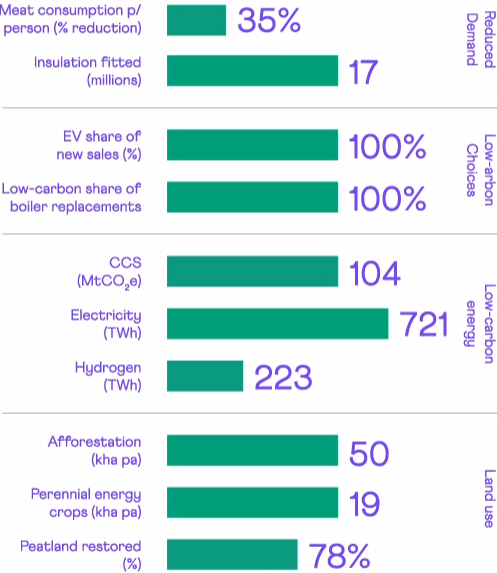
Key developments



What changes will we see on the Balanced Pathway 2050



Key developments



Policy timeline

2021 will be busy

| Date | Outcomes and Milestones |
|----------------------------------|---|
| Before COP 26 (November 2021) | <ul style="list-style-type: none"> Legislate the Sixth Carbon Budget at 965 MtCO₂e, including emissions from International Aviation and Shipping (IAS) Net Zero strategy Energy White Paper Heat and Buildings Strategy New carbon pricing regime following EU ETS Transport decarbonisation plan Final HMT Net Zero review England Tree Strategy Peatland strategy, including an immediate end to rotational burning of peat Hydrogen strategy, and consultation on hydrogen business models Rail decarbonisation strategy Industrial decarbonisation strategy Net Zero carbon hospital standard, and further commitments towards delivering a Net Zero NHS Publication of Greening Government Commitments Ofgem's final business model approvals for the R10-ED2 period should accommodate network upgrades for EVs and heat pumps Aviation decarbonisation strategy Next Contract-for Difference allocation round, targeting large volumes of renewables, towards 40 GW offshore wind by 2030 Updated Nationally Determined Contribution (NDC) for at least a 68% reduction on 1990 levels (excl. IAS) Build on the UK's NDC to increase global climate ambition in the run up to COP26 Strengthened UK Adaptation Plans Updated Green Book guidance on climate change Decision on funding model for CCS infrastructure MOD review of climate change and defence Call for evidence on policy for GHG Removals (GGRs) Consultation on mandatory food waste reporting Consultation on including maritime in Road Transport Fuel Obligation (RTFO) Scottish Government to publish updated Climate Change plan Conclusion of Green Jobs Taskforce Environmental Land Management pilots Implementation of minimum device standards for EV chargers National food strategy and white paper Welsh Government to publish an 'All Wales Plan' for the second carbon budget |

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