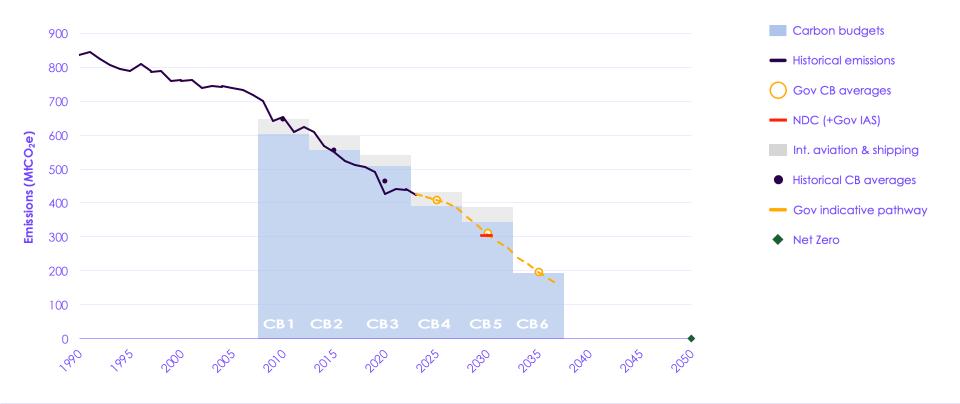
Westminster Energy Forum

Dr James Richardson



The UK has met the first three carbon budgets

But the future targets are more challenging





2023 saw a substantial fall in electricity supply emissions

Most of this was from increased electricity imports











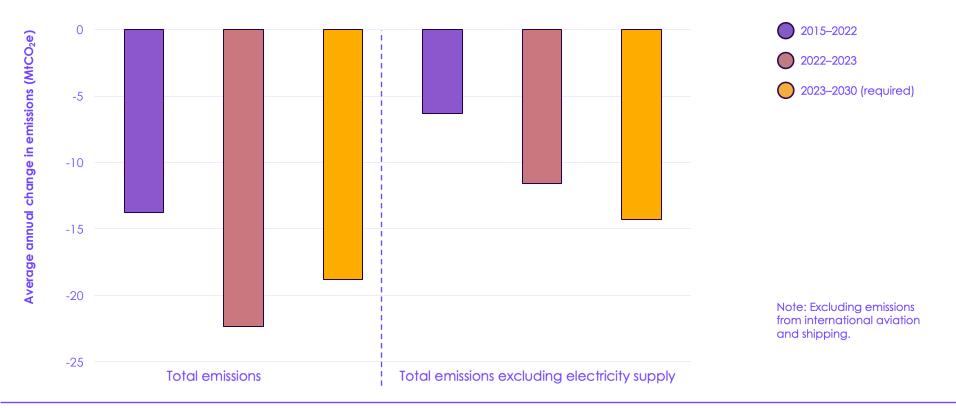






Emissions reductions will need to increase to reach the UK's 2030 target

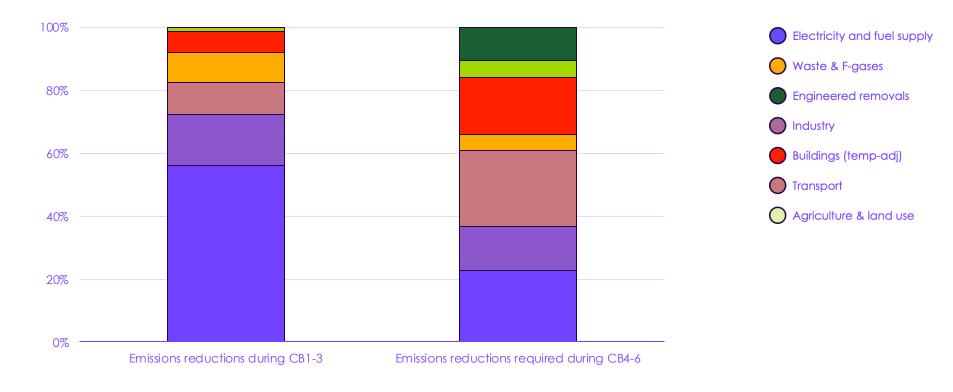
While emissions fell substantially in 2023, the long-term trend is less good





Meeting the fourth, fifth and sixth carbon budgets will look different

It requires greater contributions from transport, buildings, agriculture, land and removals





Indicators

Uptake of low-carbon technologies and nature-based solutions

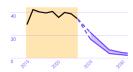
a) Battery electric car share of total sales (% of new car sales) Slightly off track



e) Electricity used in industry (% of total industry energy use) Slightly off track



i) Unabated gas share of generation (% of total generation) Slightly off track



b) Battery electric van share of total sales (% of new van sales) Significantly off track



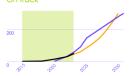
f) Offshore wind operational capacity (GW)



j) New woodland creation (kha/year) Significantly off track



c) Public EV chargepoints (thousands) On track



a) Onshore wind operational capacity (GW) Slightly off track

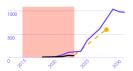


k) Peatland restored (kha/year)

Significantly off track



d) Heat pump installations (residential) (thousands) Significantly off track



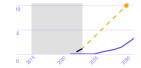
h) Solar operational capacity (GW)

Significantly off track



I) Sustainable Aviation Fuel share (% of total fuel)

Too early to say



- Historical data
- CCC Balanced Pathway
- Government ambition



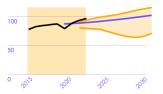
Indicators

Demand for high-carbon activities





b) Km travelled by vans (billion vehicle-km) Slightly off track



c) Final energy demand in residential buildings (TWh)
On track



d) Final energy demand in non-residential buildings (TWh) On track



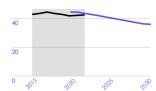
e) Households receiving energy efficiency measures (thousands) Significantly off track



f) Energy consumption per unit of GVA in industry (TWh/GVA) Slightly off track



g) Number of livestock (Cattle and sheep) (millions) Too early to say



h) Airport terminal passengers (millions) Too early to say

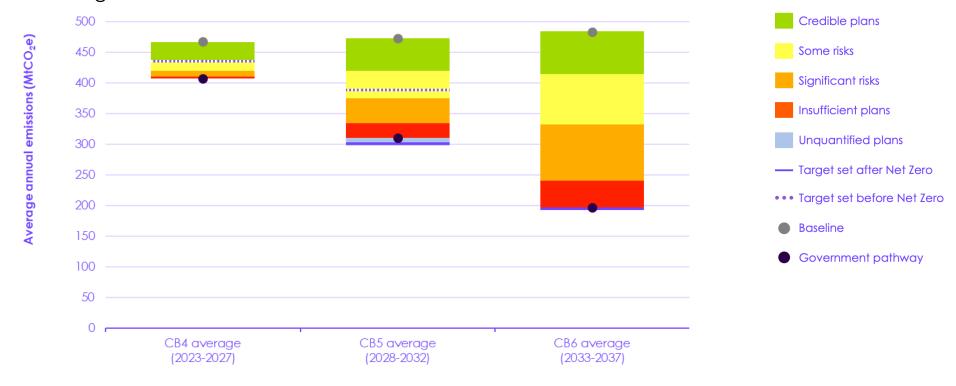


- Historical data
- CCC Balanced Pathway
- Government ambition



This year's policy assessment shows a slight increase in credible plans

But almost half the required emissions reduction to meet the 2030 target has insufficient plans or carries significant risk





Recommendations

- 1. Make electricity cheaper
- 2. Reverse recent policy rollbacks
- 3. Remove planning barriers for Heat Pumps and EVs
- 4. Comprehensive programme to decarbonise public buildings
- 5. Effectively design and implement CfD auctions

- 6. Accelerate electrification of industrial heat
- 7. Ramp up tree planting and peatland restoration
- 8. Finalise business models for engineered removals
- 9. Publish a strategy to support skills
- 10. Strengthen National Adaptation Plan



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