26th A pril 2021

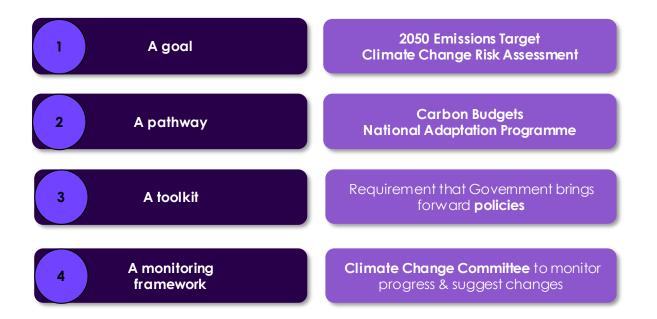
The UK Climate Change Committee and the UK's Sixth Carbon Budget advice – the pathway to Net Zero Dr Rebecca Heaton, UK Climate Change Committee



The CCC's role under the UK Climate Change Act

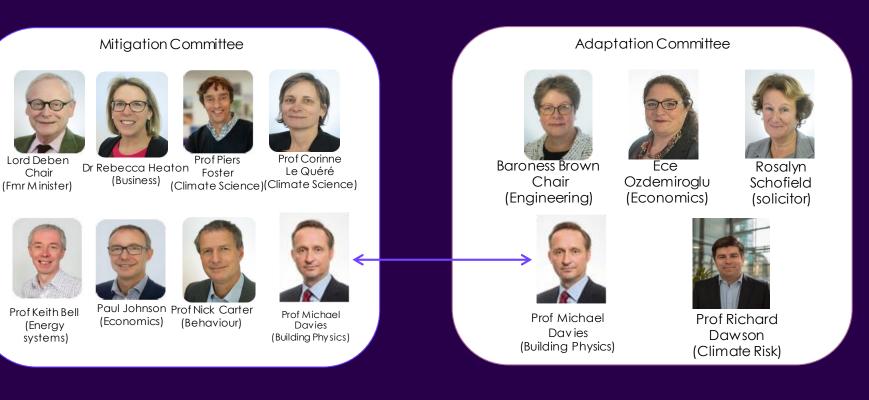


UK Climate Change Act Four pillars underpin the UK Climate Change Act



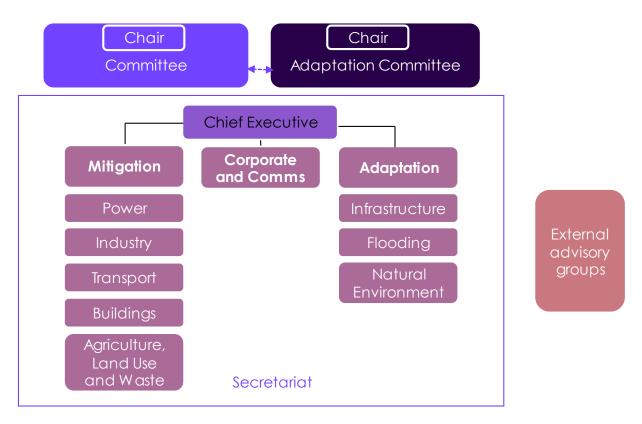


UK Climate Change Committee Independent, Expert-led, Evidence-based





UK Climate Change Committee Independence, Expertise, Evidence-Led





UK Climate Change Committee Target-setting, Progress monitoring & Informing policy

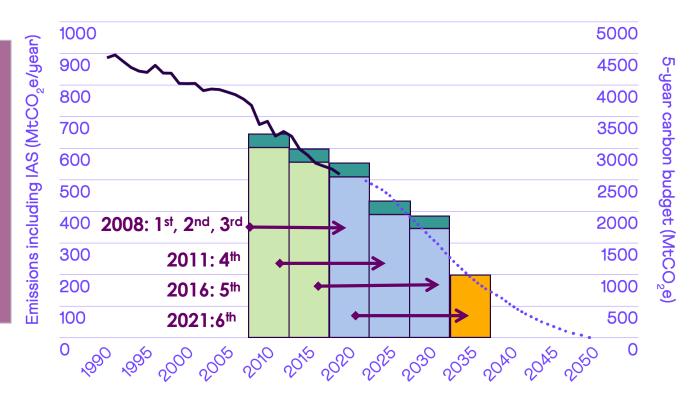
	Progress monitoring	
Advice on the level of carbon budgets	- Annual Mitigation Progress Reports - Biennial Adaptation Progress Reports)	Non-statutory reports
Long-term targets advice [when requested]		- Sector and technology reports
Climate Change Risk Assessment		- Policy reports
		- Issues and impacts reports



Drumbeat budget cycle for emissions reductions

 Legally binding interim 5 year budgets set path providing focus for Government and business.

Budget set 12 year ahead gives time to plan and deliver and gives clarity of direction across government cycles.





UK Climate Act a successful model for climate mitigation policy making

- Clear targets and a transparent framework has improved public and business engagement.
- Legal obligation on specific Minister ensures climate change has high profile in Government.
- 12 year ahead commitment is effective balance of political distance and policy immediacy.
- The Net Zero Target has focussed minds (no 'free' 20%).
- An evidence-led independent advisor has helped resolve political differences.

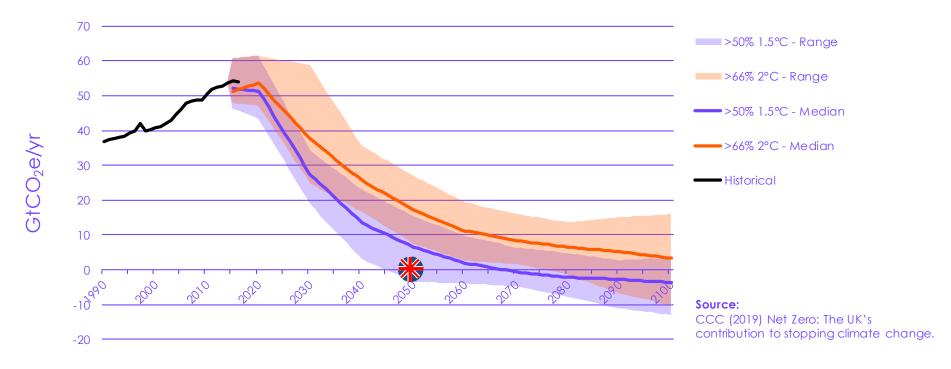
"The UK experience shows that an expert advisory body can strengthen climate governance by serving as an impartial knowledge broker, contributing to more evidence-based and ambitious policymaking." London School of Economics-Grantham Research Institute on the role of the CCC (2021)



Advice on the path to Net Zero



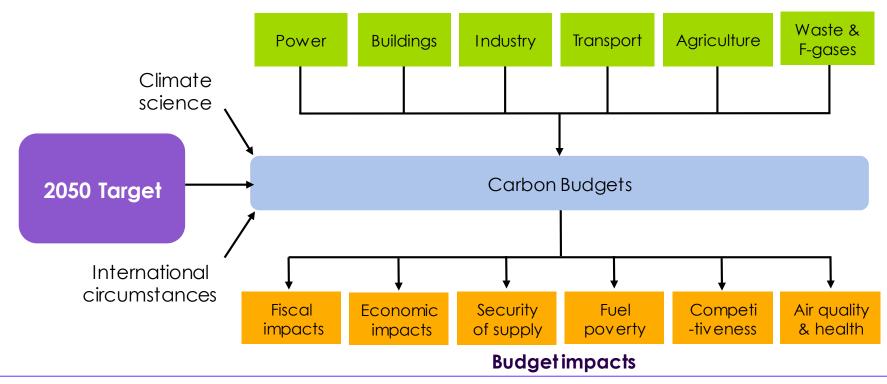
Global emissions (all GHGs) pathways consistent with the Paris Agreement UK 2019: Net Zero 2050





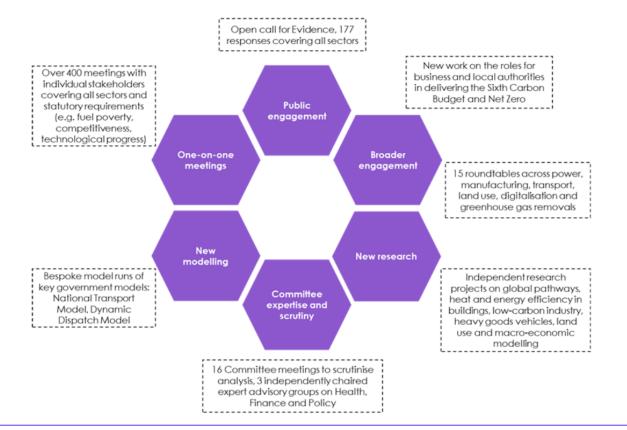
Setting the path to Net Zero – an approach defined by the Climate Act Evidence-based, bottom up, whole economy approach

Sectors: scenarios, costs, required policy





Setting the path to Net Zero – engagement, evidence and scrutiny Advice based on bespoke modelling and leveraging widespread expertise





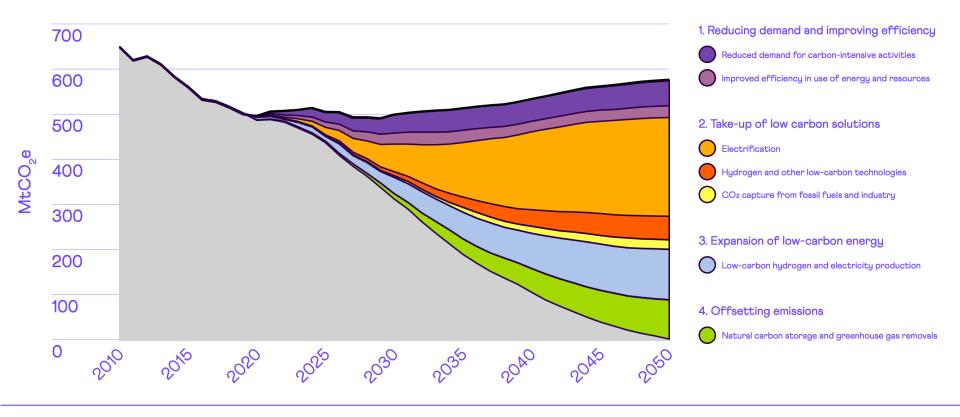
Our approach A very real-world constraint: asset lives

Sector	Asset	Lifetime
Transport	Light Vehicle HGV	14 years (average) 8 – 13 years
Manufacturing and Construction	Combustion (Boilers, furnaces, mobile machinery, generators, kilns, compressors, dryers, heaters, ovens, Other process assets.	10-35 years
Buildings	Fossil fuel boiler Air Source Heat Pump Ground Source Heat Pump Loft and cavity insulation Solid wall insulation	15 years 15 years 20 years 42 years 36 years
Power generation	Gas plant Offshore wind Nuclear plant	25 years 30 years 60 years
Aviation	Aircraft	30 year technical
Shipping	Ships	30 years technical



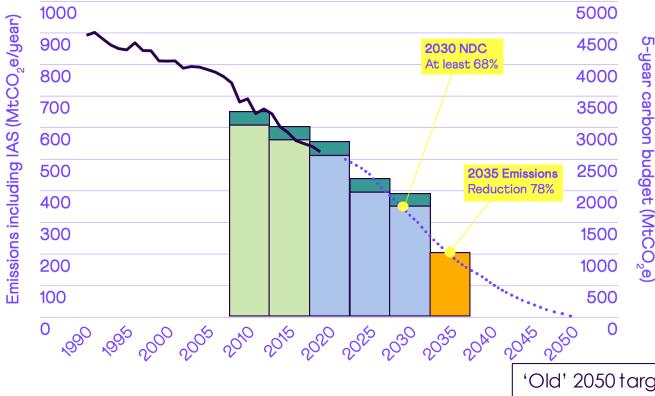
Our recommended path to Net Zero

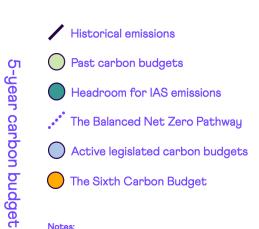
The path to Net Zero requires actions across four key areas





Our recommended path to Net Zero The recommended sixth carbon budget and 2030 NDC





Notes:

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Emissions shown including emissions from international aviation and shipping (IAS) and on an AR5 basis, including peatlands. Adjustments for IAS emissions to carbon budgets 1-3 based on historical IAS emissions data; adjustments to carbon budgets 4 and 5 based on IAS emissions under the Balanced Net Zero Pathway.

Source:

BEIS (2020) Provisional UK greenhouse gas emissions national statistics 2019; CCC analysis.

'Old' 2050 target brought forwards 15 years



Further information

December 2020



www.theccc.org.uk/publication/sixth-carbon-budget/

Insights Briefing Sharing the UK approach to addressing climate change

The UK's independent adviser on tackling climate change

www.theccc.org.uk/publication/insights-briefings-sharingthe-uk-approach-to-addressing-climate-change/



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