

The UK's framework for green policy appraisal

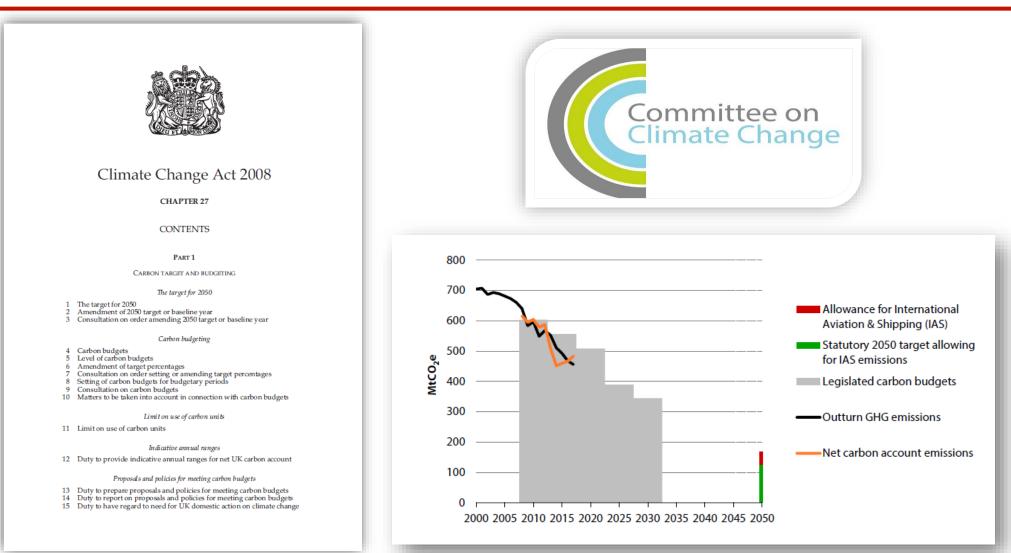
Edward Hadley, HM Treasury

21 February 2019

1. The UK's framework for decarbonisation

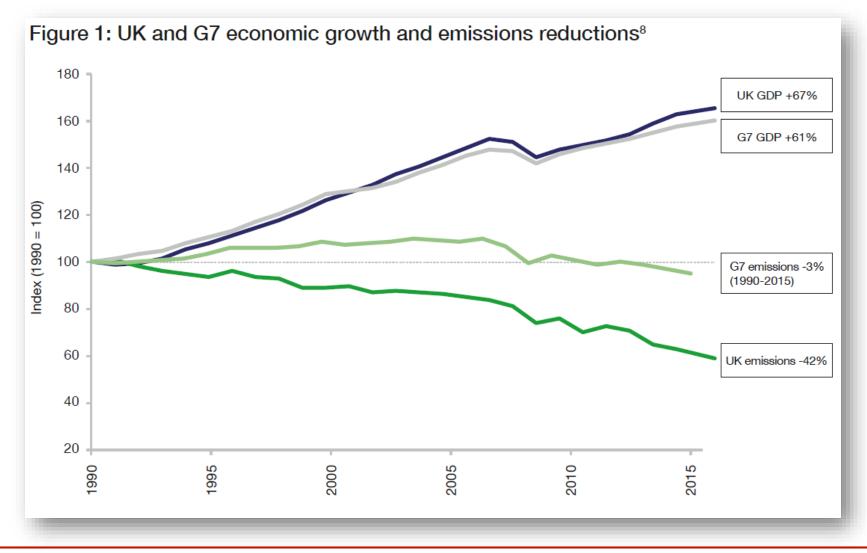


A robust legal and institutional framework





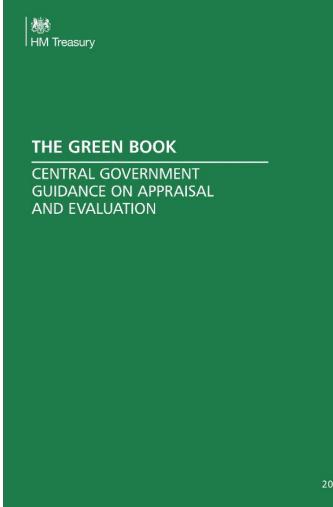
That takes into account the costs and benefits of a shift to a clean economy



2. The Green Book: the UK's framework for policy appraisal and evaluation



The Green Book



- The Green Book is a flexible tool that can account for the costs and benefits of all policies – adaptation and mitigation
- Pioneering in its incorporation of environmental impacts
- Allows us to meet set objectives most cost effectively



Used to inform impact assessments

Summary: Analysis & Evidence Policy Option 3

Description: A "CCC recommended" budget (1,725 MtCO₂e), reflecting 2015 advice, current accounting basis FULL ECONOMIC ASSESSMENT

	Price Base PV Bas Year 2015 Year 2			Time Period	Net Benefit (Present Value (PV)) (£m)			
			2016	Years 5	Low: -£14,500		High: £28,800	Best Estimate: £5,500
	COSTS (£m)			Total Tra (Constant Price)			Average Annual sition) (Constant Price)	Total Cost (Present Value)
	Low			£0			£7,400	£22,600
	High			£0			£16,300	£50,000
	Best Estimate	e		£0			£11,700	£35,900

Description and scale of key monetised costs by 'main affected groups'

Costs captured are the illustrative static amortised capital, finance, and hidden costs; together with inyear increases in operating and maintenance costs over 2028-2032 of delivering the required non-traded sector emissions reductions (£31.2bn). There are additional costs associated with rebound effects in transport, increased congestion (£4.7bn).

Other key non-monetised costs by 'main affected groups'

Policy costs, including administrative costs and additional costs of overcoming barriers to delivery of measures, are not captured as the portfolio of policies to deliver this budget level is unknown at this stage. Impacts on the overall cost of meeting the UK's 2050 target are also not captured. Costs attributable outside the fifth carbon budget period are not included.

BENEFITS (£m)	Total Tra (Constant Price)	ansition Years	Average Annual (excl. Transition) (Constant Price)	Total Benefit (Present Value)			
Low	£0		£11,200	£35,500			
High	£0		£16,400	£51,400			
Best Estimate	£0		£13,300	£41,400			

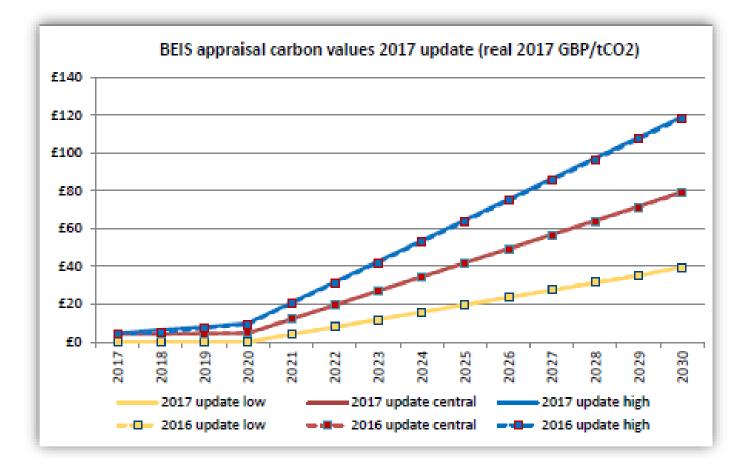
Description and scale of key monetised benefits by 'main affected groups'

There are benefits from a reduction in the cost of energy consumption, additional space heating in the domestic buildings sector (£23.6bn), and GHG impacts (£15.5bn). Smaller benefits include impacts on air and noise quality, as well as improvements in natural capital primarily from the amenity value of afforestation (£2.3bn).

Other key non-monetised benefits by 'main affected groups'

Impacts on natural capital are only included where evidence is available. Benefits outside the fifth carbon budget period are not included.

And includes a ('target consistent') price on carbon



3. Putting theory into practice



Embedding good practice across government

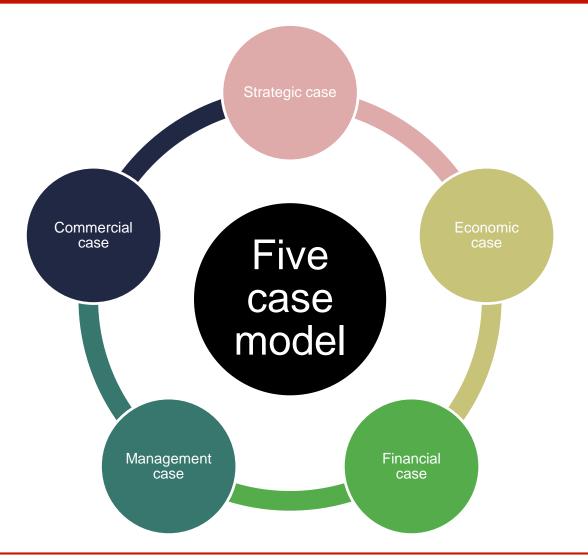
All business cases need to be green book compliant

Assessment of climate impacts when setting budgets

Regular scrutiny by parliamentary committees, National Audit Office etc.



The five case model





Do CBAs give the 'right' answer?



Good value for money?



Conclusions on the UK framework

Combines clarity in its objectives with flexibility of implementation

The Green Book is about informed policy making, rather than political choices

Informs rather than dictates policy



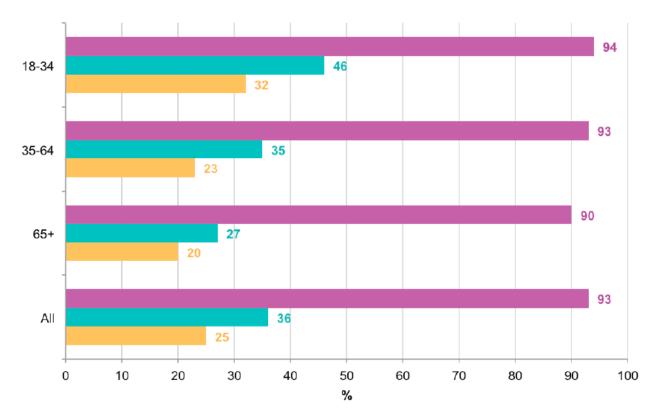
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Annexes



Annex



Views on existence, causes and consequences of climate change, by age

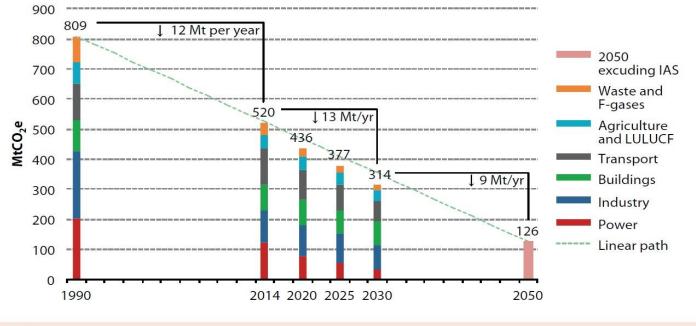
Proportion saying climate change is definitely/probably happening

Proportion saying climate change is entirely/mainly caused by human activity

Proportion extremely/very worried about climate change

Annex

Emissions reductions in the Central Scenario and to 2050



Source: CCC analysis.



Annex

