

UK experience of and plans for reducing emissions of greenhouse gases

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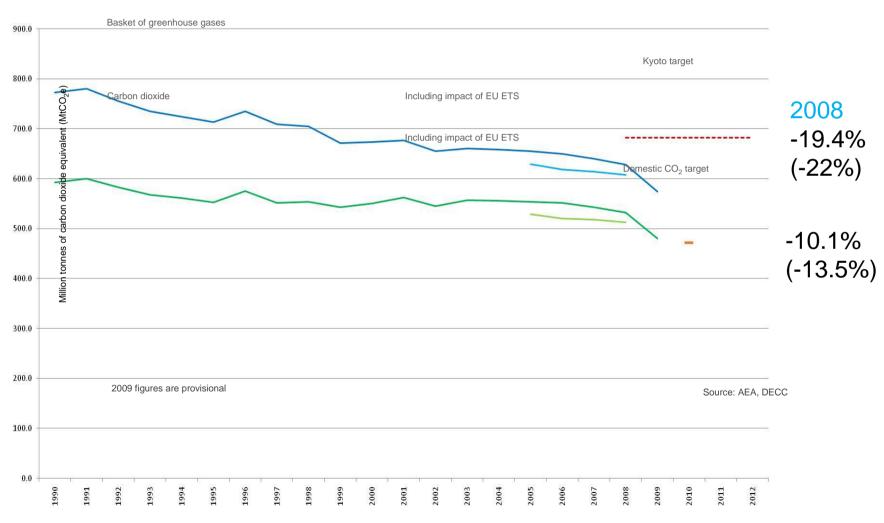
The UK experience



- Historic trends and progress to targets
- Legal and organisational structures
- Targets, policies and measures
- Analysis
- Challenges

Progress on UK greenhouse gas emission reductions





Key elements of the Climate Change Act 2008



Ambitious targets to reduce emissions

- -34% by 2020
- -80% by 2050 relative to 1990 levels

Binding carbon budgets

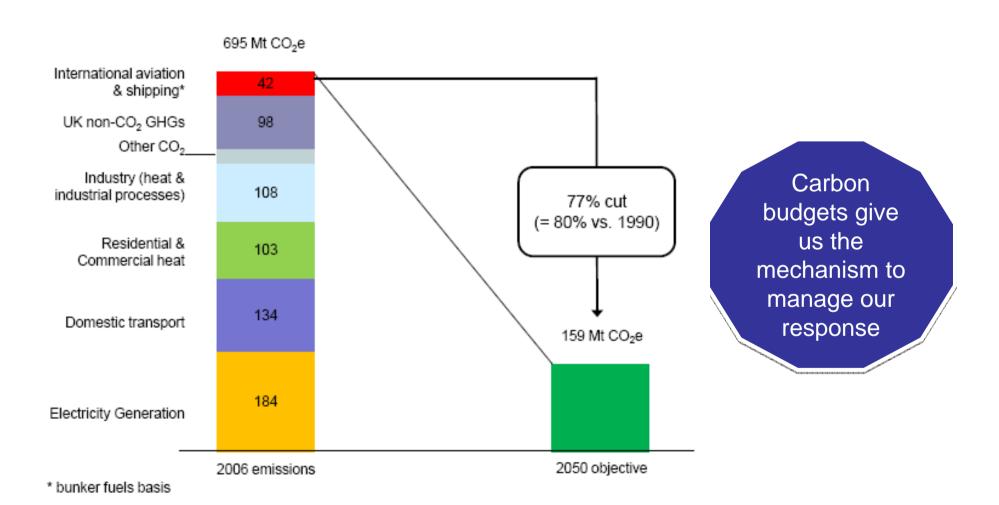
- Five-year carbon budgets
- Three budget periods ahead
- Set trajectory towards 2050 target

A clear accountability framework

- Publish policies for meeting the carbon budgets
- The independent Committee on Climate
 Change advises on budgets and actions
- Annual progress reports to parliament by CCC.

Delivering this level of ambition will be a huge challenge...

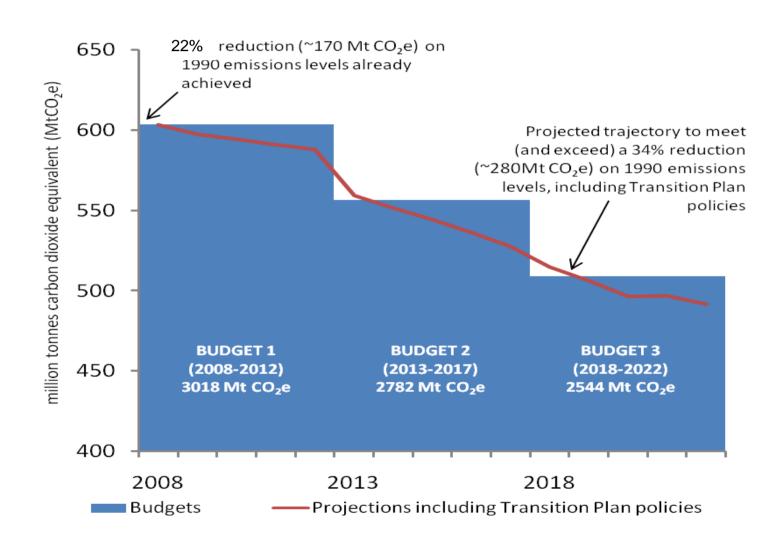




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The UK's first three carbon budgets set in law May 2009 following Parliamentary approval





CCC's second annual progress report June 2010



- Emissions reductions in 2009 largely due to recession
- Should aim to outperform first budget and not bank to second budget
- Step change still needed in pace of emissions reductions
- Limited progress on measures
- Some progress on policies but further action required

Incentives for investment in **low carbon power:**

Electricity market reform
Carbon price floor
Emissions Performance Standard

Delivery mechanisms and incentives to improve energy efficiency of buildings

New policies for the agriculture sector

Encouraging a move to more **carbon- efficient cars**, including electric cars

Our policy objectives – 'Annual Energy Statement'



- Reduce energy use by households and businesses – 'Green Deal'
- Deliver secure energy on the way to a low carbon future
- Drive ambitious action on climate change at home and abroad
- Manage our energy legacy responsibly and cost effectively

Stimulating low carbon investment



- Electricity Market Reform consultation this autumn, followed by a White Paper in spring
- Carbon Floor Price/ Support proposals to be published in the autumn to reform the climate change levy
- Proposals on the establishment of a Green
 Investment Bank will be published this autumn

Greener Living and individual behaviour change



- Tackling the barriers to investment in energy efficiency by launching the "Green Deal"
- Rolling out "smart meters"
- Introduction of a 10% reduction target to be achieved within 12 months for Government departments

Publication of the 2050 pathways analysis in July



- Energy demand needs to be significantly reduced
- Substantial level of electrification of heating, transport and industry needed
- Electricity supply may need to double and be decarbonised
- Sustainable bioenergy vital element
- On going need for fossil fuels CCS?
- Need to tackle emissions from agriculture, waste, industrial processes and international transport.

2050 Pathways Calculator





Key milestones



Dec 2010 - 4th carbon budget (2023-2027) advice from CCC

June 2011 - UK must set 4th carbon budget in law

June 2011 – CCC 3rd annual report on progress in meeting carbon budgets

More on Energy market reform

Conclusions



- The UK has exceeded emission reductions required under the KP
- The UK has put in place a legal framework for long term reductions in GHGs
- The UK is committed to reduce emissions by at least 34% by 2020
- The UK is working on the details of how to reduce emissions by 80% by 2050