

Can the UK meet its carbon emission reduction targets?
- Focus on Buildings

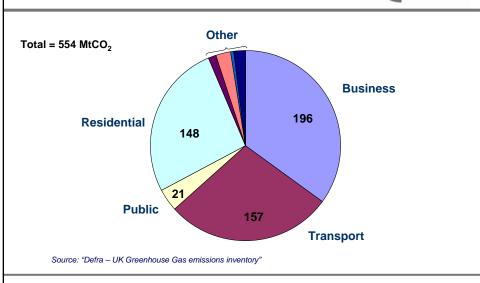
Adair Turner - Chair of the UK Committee on Climate Change

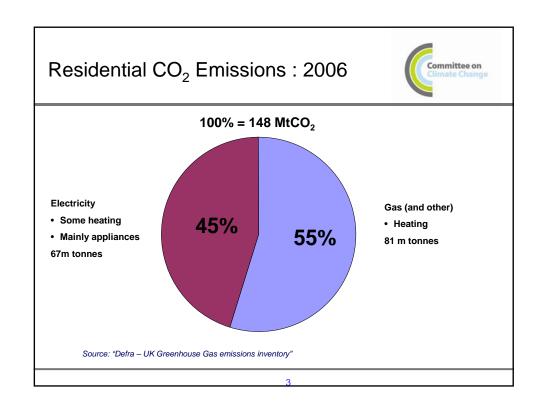
4<sup>th</sup> June 2008

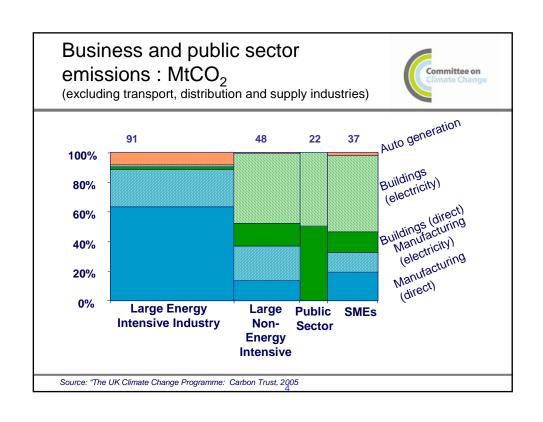
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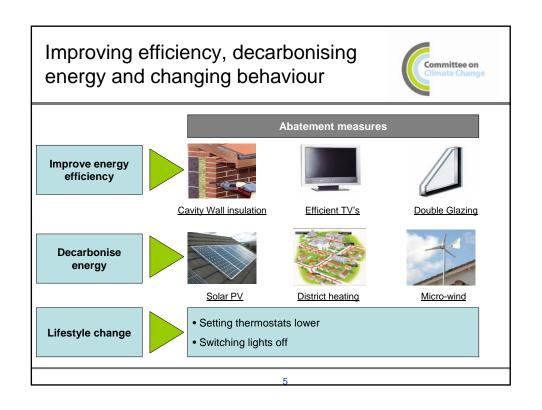
# UK CO<sub>2</sub> Emissions 2006 – by endusers of energy

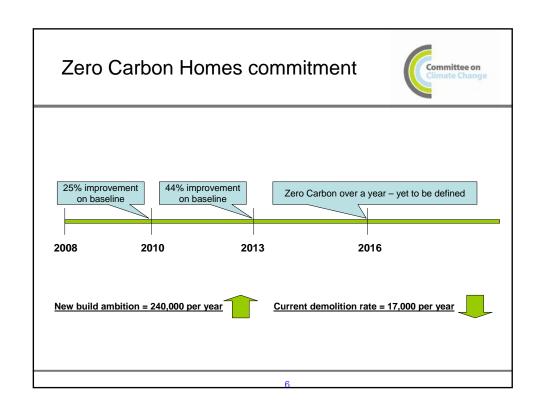


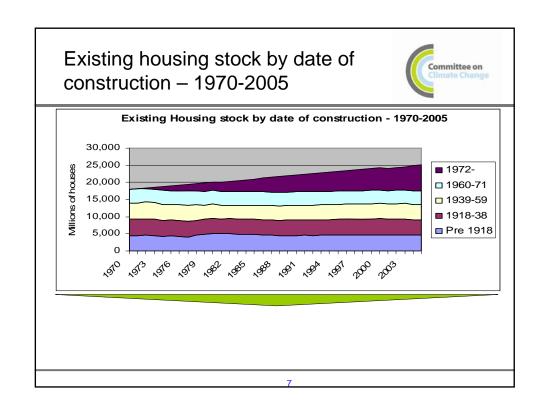


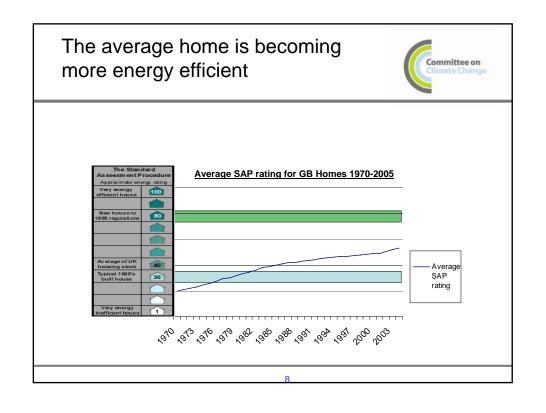


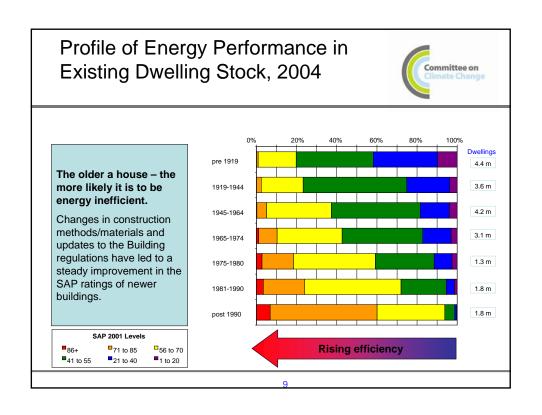


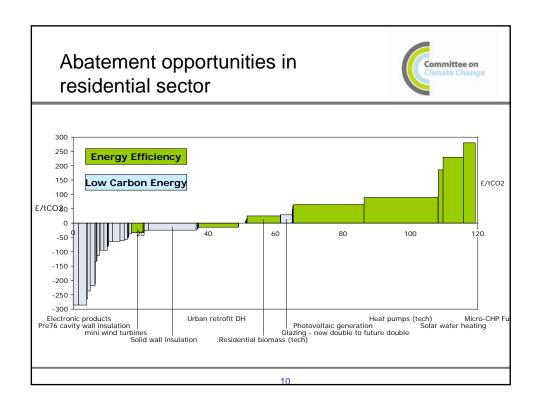












## Existing policies to address residential building emissions



Policy	Estimated impact by 2020 in tonnes of CO2 abated
Zero carbon new homes	4.0 - 4.4
Energy performance certificates	2.2 - 5.9 [commercial & residential]
<ul> <li>More energy efficient appliances and products</li> </ul>	3.7 – 11.0 [commercial & residential]
<ul> <li>Better billing, smart metering, real time displays</li> </ul>	0.4 – 2.6
Supplier obligation	11.0 – 14.6
	11

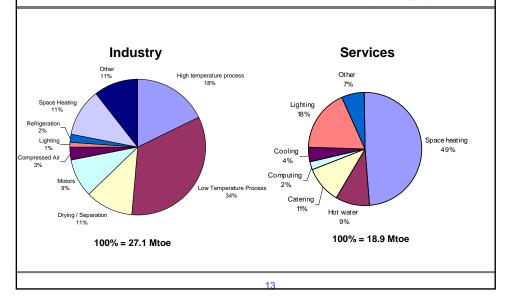
## More aggressive policies on existing residential buildings?



- Energy performance certificates linked to fiscal incentives?
  - Stamp Duty
  - Council Tax
- Extension of new building regulations to wider set of "refurbishments/renovations/extensions?"
- · Reinforcement of "Supplier Obligation"
  - Stronger targets?
  - Government funding?
  - One-stop shops

## Commercial and industrial energy end use





### Policies for the commercial building sector



Policy	Estimated impact by 2020 in tonnes of CO2 abated
<ul><li>Zero carbon buildings</li><li>Public sector 2018</li><li>Private sector 2019</li></ul>	Not yet estimated
Energy performance certificates	2.2 – 5.9 [commercial & residential]
<ul> <li>More energy efficient appliances and products</li> </ul>	3.7 – 11.0 [commercial & residential]
Carbon reduction commitment	3.7

# Carbon Reduction Commitment Cap and trade scheme expected to deliver 3.7 mt CO2 Covers firms consuming more than 6000MWh (c. £1/2m energy bill) Excludes emissions in CCA and EU ETS Revenue neutral with revenue returned according to league table performance Full introduction: Emissions capped at start of year, trading in year