

**Be the
source**

**Energy
Consumption**
Future energy
requirements
– a quantitative
approach

110kWh

per person per
day is the total
energy we
each use.

Sustainable energy

without the hot air®
By David JC MacKay



This is an educational resource that looks at the energy debate using scientific and engineering principles.

This resource is readable, amusing without being frivolous and gives readers a logical approach when discussing the sustainability debate. We have a major part to play in the energy infrastructure and will happily provide copies of this book to schools. In his introduction to this edition, Steve Holliday, our Chief Executive, said:

“We believe this makes it an ideal source of material for schools looking to understand and debate energy issues...”

This book encourages the reader to think from clearly-explained, basic scientific principles, and then to ‘do the sums’. It is a superb example of how the science and maths taught in schools can and should be applied. It will help teachers to illustrate the curriculum at all levels, and help students to develop the competences needed to be part of the solution to the energy problem.”

We offer Professor MacKay’s book in printed, paperback form, but you can take a look at the contents at www.withouthotair.com



The 2050 Challenge

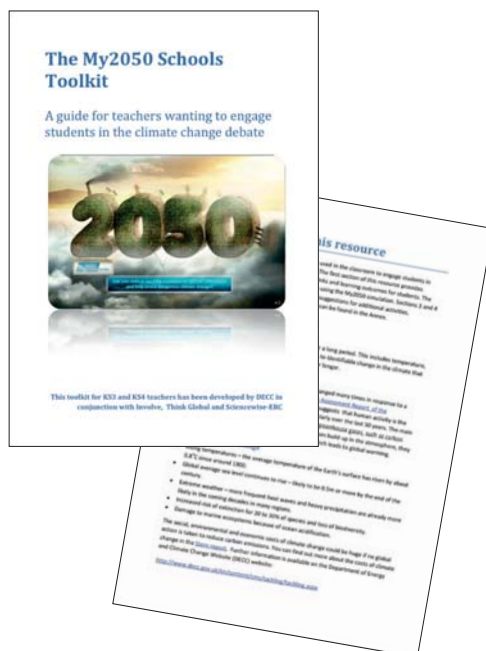
The UK is committed to reducing its greenhouse gas emissions by at least 80% by 2050, relative to 1990 levels. We need a transformation of the UK economy while ensuring secure, low carbon energy supplies to 2050, and face major choices about how to do this. In 2010, DECC built the 2050 Calculator to help the public engage in the debate, and for Government to ensure its short and medium-term planning was consistent with achieving the long-term aim. In the Carbon Plan published in December 2011, DECC used the Calculator to illustrate three 2050 futures that show some of the plausible routes towards meeting the target. www.decc.gov.uk/en/content/cms/tackling/2050/2050.aspx



The My2050 Schools Toolkit

Create your My2050 world for the UK: Can you reduce our CO₂ emissions by 80% by the Department of Energy and Climate Change my2050.decc.gov.uk/

A guide for teachers wanting to engage students in the climate change debate www.decc.gov.uk/assets/decc/11/tackling-climate-change/2050/3670-2050-schools-toolkit-pdf-version.pdf



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Securing our energy supply
for future generations