

We have an addiction to fossil fuels, and it's not sustainable. How can we replace fossil fuels? How can we ensure security of energy supply? How can we solve climate change?

We're often told that "huge" amounts of renewable power are available – wind, wave, tide, and so forth. But our current power consumption is also huge! To understand our sustainable energy crisis, we need to know how the one "huge" compares with the other. We need numbers, not adjectives.

This book shows how to estimate the numbers, and what those numbers depend on. Taking the United Kingdom as an example, it asks first "could Britain live on renewable energy resources along?" and second "how can a country like Britain make a realistic post-fossil-fuel energy plan that adds up?" It answers these questions in detail, bringing home the size of the changes that society must undergo of sustainable living is to be achieved. It's not going to be easy to make an energy plan that adds up – but it is possible.

David MacKay is a Professor in the Department of Physics at the University of Cambridge.

384 pages, 196×223 mm Full colour throughout ISBN (paperback) 9780954452933 ISBN (hardback) 9781906860011

You can see the full contents and read the book free online at www.withouthotair.com

Sustainable Energy – without the hot air

David JC MacKay

This remarkable book sets out, with enormous clarity and objectivity, the various alternative low-carbon pathways that are open to us.

Sir David King FRS

Chief Scientific Adviser to the UK Government, 2000–08

For anyone with influence on energy policy, whether in government, business or a campaign group, this book should be compulsory reading.

Tony Juniper

Former Executive Director, Friends of the Earth

At last a book that comprehensively reveals the true facts about sustainable energy in a form that is both highly readable and entertaining.

Robert Sansom

Director of Strategy and Sustainable Development, EDF Energy

A total delight to read. Extraordinarily clear and engaging.

Chris Goodall

author of Ten Technologies to Save the Planet

... a really valuable contribution ... uses a potent mixture of arithmetic and common sense to dispel some myths and slay some sacred cows.

Lord Oxburgh KBE FRS Former Chairman, Royal Dutch Shell

Engagingly written, packed with useful information, and refreshingly factual.

Peter Ainsworth MP

Shadow Secretary of State for Environment, Food, and Rural Affairs

a delight to read ... this fascinating book is a mine of quantitative information.

Dr Derek Pooley CBE

Former Chief Scientist at the Department of Energy, Chief Executive of the UK Atomic Energy Authority, and Member of the European Union Advisory Group on Energy

Started reading your book yesterday. Took the day off work today so that I could continue reading it. It is a fabulous, witty, no-nonsense, valuable piece of work, and I am busy sending it to everyone I know.

Matthew Sullivan Carbon Advice Group Plc

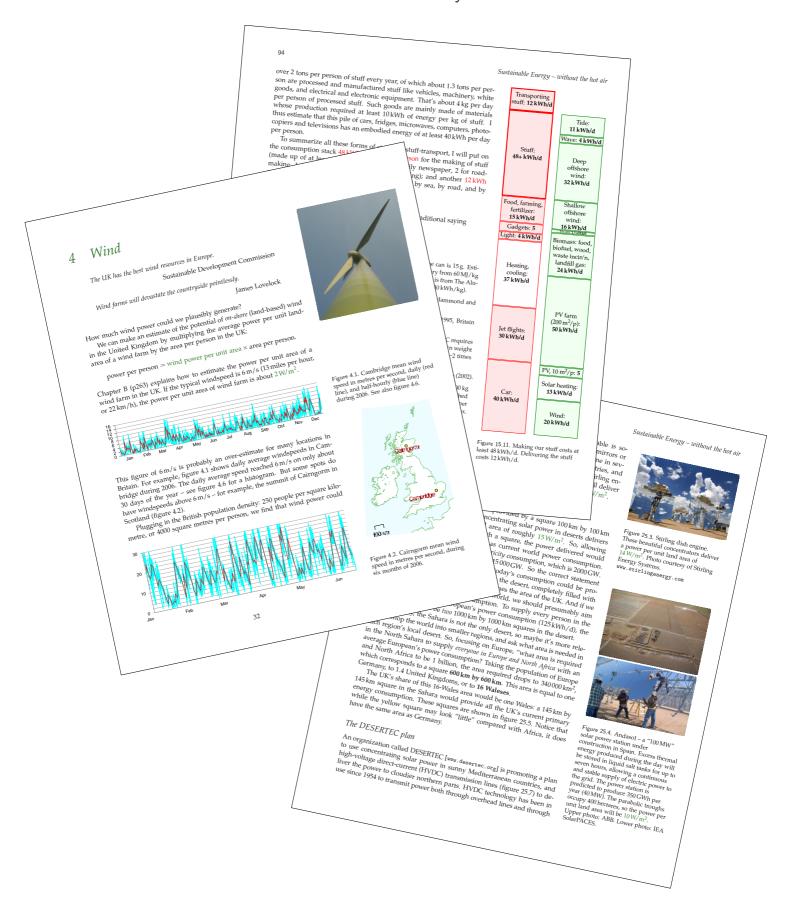
David MacKay's book sets the standard for all future debate on energy policy and climate change.

David Howarth MP Shadow Solicitor General, Liberal Democrats



Sustainable Energy - without the hot air

David JC MacKay





To order, contact: UIT Cambridge Ltd., PO Box 145, Cambridge, CB4 1GQ, England www.uit.co.uk/sustainable

email: orders@uit.co.uk