

Energy Efficiency

The Definitive Guide to the Cheapest, Cleanest, Fastest Source of Energy

Steven Fawkes

'...Steven Fawkes addresses every aspect of energy efficiency, including; the huge and vitally important untapped potential offered by effective energy management and the application of technology. He also identifies the barriers, such as the rebound effect and how they can be mitigated and he provides a comprehensive review of innovative energy efficiency financing options. This book is a "must read" for anyone with an interest in energy supply and demand reduction.'

**David Strong, Chairman, Energy Efficiency Partnership for Buildings
and Visiting Professor at Nottingham and Oxford Brookes Universities, UK**

'Steven Fawkes's important book shines a needed spotlight on the abundant energy waste that afflicts all of the world's major economies and demonstrates practical ways that we can improve our energy productivity and protect our environment without compromising economic growth. Finally, he reminds policy-makers that the cheapest and cleanest source of energy is the energy we don't use.'

Jim Kapsis, Senior Director, Market Development & Strategy, Opower, Inc

'This book is clearly written, practical and honest. It will be very useful for businesses and policy makers alike. It is also a useful text for researchers and experts involved in interdisciplinary research and projects that need to incorporate energy efficiency such as low carbon city planning.'

John Thwaites, Chairman, Monash Sustainability Institute, Monash University, Australia

Energy risk has reappeared on the corporate and social agenda with a bang, and the complexity of the issues has increased many-fold since the days of the last great wave of concern following the oil crises of the 1970s. *Energy Efficiency* summarizes the latest thinking on all aspects of energy efficiency and will give the reader a head start on this important subject. It is a comprehensive guide for managers and policy-makers to the need for energy efficiency, and the benefits for both the host and wider society. Steven Fawkes asks fundamental questions underpinning energy-efficiency and our responses to it:

- what management processes lead to its optimisation?
- what technologies are useful for improving it?
- what policies can be used to promote it?
- how can it be financed?
- how can energy suppliers engage with it?

The result is a comprehensive review of the barriers and opportunities associated with improving energy efficiency. Steven Fawkes, recipient of the Energy Institute's Individual Achievement Award, addresses every aspect, including the huge and vitally important untapped potential offered by effective energy management and the application of existing technology. *Energy Efficiency* is designed for students and professionals becoming or already involved in energy efficiency at various levels from operational management to senior management. It will appeal to policy makers and others trying to get to grips with the various aspects of energy efficiency.

Hardback c.190 pages October 2013 978-1-4094-5359-8

~~e.£65.00~~ **Discount price c.£42.25**

www.gowerpublishing.com/isbn/9781409453598

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Contents:

Foreword; What do we mean by energy efficiency?; The global energy system - stresses and strains; Potentials and barriers; A systematic view of the benefits of efficiency; Jevins, rebound and backfire; management techniques; Energy management examples; Technologies for energy efficiency; Designing for energy efficiency; Financing energy efficiency investment; Energy efficiency policies; Energy efficiency policy examples; Energy suppliers and energy efficiency; Summary and conclusions; Appendices; Index.

About the Author:

Steven Fawkes is Chairman of Day One Energy Solutions and a Non-Executive Director of Bglobal plc. Prior to that he led the Extel number 1 rated research team in New Energy and Clean Technology at Matrix. Following a PhD about energy efficiency, Steven worked for more than twenty years implementing energy management programmes in the UK and for the EU, UNDP and USAID in Romania. He co-founded two Energy Service Companies, one in Romania and one in the UK which became part of RWE npower. Steven is a Chartered Engineer and a Fellow of the Energy Institute. Steven has published widely and has presented at numerous conferences in Europe, the USA, Africa and Asia. He has been an adviser to the Energy Efficiency Deployment Office in the UK Department of Energy and Climate Change. In November 2012 he was awarded the Energy Institute's Individual Achievement Award.

Also available by Steven Fawkes:

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