



Renewable Electricity and the Grid: The Challenge of Variability

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Integrating intermittent renewable energy sources like wind into electricity systems must be one of the most misunderstood issues in energy policy. This edited volume brings together a unique series of authoritative articles on the topic. There should be no excuse for misunderstanding from now on.

JIM SKEA, RESEARCH DIRECTOR, UK ENERGY RESEARCH CENTRE

The future design and operation of electric power systems with large injections of renewable energy generation is the subject of much debate, and some misunderstanding. This timely book, from a number of authors with expertise in the area, makes an important contribution to our understanding of this topic.

NICK JENKINS, PROFESSOR OF ENERGY SYSTEMS, UNIVERSITY OF MANCHESTER

We know the future will be different from the past. This book predicts how large proportions of renewable energy can be incorporated into electricity grids, without harm from the natural variability of these supplies. The chapter authors have different approaches and vision, yet the overall message is positive. Not only can we move to dominant use of renewable electricity, but we can do so utilizing many technological and efficiency improvements, with consumers benefiting from clean electricity at acceptable cost.

PROFESSOR JOHN TWIDELL, GENERAL EDITOR, WIND ENGINEERING

'Anyone interested in renewable electricity will find this book an important reference. It answers many of the questions so often raised in public debates'

Sherkin Comment

Can renewable energy provide reliable power? Will it need extensive backup?

The energy available from wind, waves, tides and the sun varies in ways that may not match variations in energy demand. Assimilating these fluctuations can affect the operation and economics of electricity networks, markets and the output of other forms of generation. Is this a significant problem, or can these new sources be integrated into the grid system without the need for extensive backup or energy storage capacity?

This book examines the significance of the issue of variability of renewable electricity supplies, and presents technical and operational solutions to the problem of reconciling the differing patterns of supply and demand. Its chapters are authored by leading experts in the field, who aim to explain and quantify the impacts of variability in renewable energy, and in doing so, dispel many of the myths and misunderstandings surrounding the topic.

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