



# Renewable Energy Systems, Second Edition: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions

By Henrik Lund

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In this new edition of *Renewable Energy Systems*, globally recognized renewable energy researcher and professor, Henrik Lund, sets forth a straightforward, comprehensive methodology for comparing different energy systems' abilities to integrate fluctuating and intermittent renewable energy sources. The book does this by presenting an energy system analysis methodology.

The book provides the results of more than fifteen comprehensive energy system analysis studies, examines the large-scale integration of renewable energy into the present system, and presents concrete design examples derived from a dozen renewable energy systems around the globe. *Renewable Energy Systems, Second Edition* also undertakes the socio-political realities governing the implementation of renewable energy systems by introducing a theoretical framework approach aimed at understanding how major technological changes, such as renewable energy, can be implemented at both the national and international levels.

- Provides an introduction to the technical design of renewable energy systems
- Demonstrates how to analyze the feasibility and efficiency of large-scale systems to help implementers avoid costly trial and error
- Addresses the socio-political challenge of implementing the shift to renewables
- Features a dozen extensive case studies from around the globe that provide real-world templates for new installations

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## Renewable Energy Systems, Second Edition: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions By Henrik Lund Bibliography

- Sales Rank: #2195881 in Books
- Published on: 2014-04-21
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x .79" w x 5.98" l, 1.35 pounds
- Binding: Paperback
- 384 pages

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"Overall it is a fascinating and challenging read, linking political and technical insights in a uniquely Danish way, but hopefully offering the rest of us a way forward too." --**Energy Research & Social Science, September 2014**

"The technical analysis, and the use of case studies of specific issues from Denmark and some from elsewhere, is detailed and quite convincing...a fascinating and challenging read, linking political and technical insights in a uniquely Danish way, but hopefully offering the rest of us a way forward too." --**Energy Research & Social Science, August 2014**

#### **About the Author**

Dr. Techn. Henrik Lund is Professor in Energy Planning at Aalborg University in Denmark, Architect behind the EnergyPLAN Energy System Analysis software and Editor-in-Chief of Elsevier's international journal, Energy.

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