



Sustainable Energy Landscapes: Designing, Planning, and Development (Applied Ecology and Environmental Management)

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In the near future the appearance and spatial organization of urban and rural landscapes will be strongly influenced by the generation of renewable energy. One of the critical tasks will be the re-integration of these sustainable energy landscapes into the existing environment which people value and want to preserve in a socially fair, environmentally sound, and economically feasible manner. Accordingly, **Sustainable Energy Landscapes: Designing, Planning, and Development** focuses on the municipal and regional scale, where energy-conscious interventions are effective, and stakeholders can participate actively in the transition process.

This book presents state-of-the-art knowledge in the exciting new field of sustainable energy landscapes. It bridges the gap between theory and fundamental research on the one hand, and practice and education on the other. The chapters written by experts in their fields present a selection of interdisciplinary, cutting-edge projects from across the world, illustrating the inspiring challenge of developing sustainable energy landscapes. They include unique case studies from Germany, Taiwan, the United Kingdom, Canada, Denmark, Austria, Italy, and the United States.

The editors and team of contributing authors aim to inspire readers, providing a comprehensive overview of sustainable energy landscapes, including principles, concepts, theories, and examples. The book describes various methods, such as energy potential mapping and heat mapping, multicriteria decision analysis, energy landscape visualization, and employing exergy and carbon models. It addresses how to quantify the impact of energy transition both on landscape quality and energy economy, issues of growing importance. The text infuses readers with enthusiasm to promote further research and action toward the important goal of building energy landscapes for a sustainable future.

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Editorial Review

Review

"This book is a wonderful opportunity to lift your view on sustainable design to a whole new level. It is the first serious effort at exploring the interplay between energy systems, on the one hand, and physical landscapes on the other. ... a 'tour de force'. It fearlessly integrates a broad range of perspectives, disciplines and case studies. It re-frames the discussion on sustainable design by asking deep questions. How might the transition to renewable energy systems be accommodated in a crowded world? Does the integration of sustainable energy systems require that we redefine our approach to urban and rural planning and design? Does it help to see all landscapes as energy landscapes? The book is at once playful and revealing."

?Sebastian Moffatt, Executive Director of the CONSENSUS Institute, British Columbia, Canada

"This book is an important contribution towards a fruitful discourse about alternative routes which build on and deviate away from a fossil driven society. It points out various paths towards a more sustainable and resilient future, making use of a variety of sources of energy being available as a unique set of opportunities at the local and regional level. This book provides the best guide yet towards 'Sustainable Energy Landscapes'."

?Gert de Roo, Professor in Planning, University of Groningen, The Netherlands, and President of the Association of European Schools of Planning

"Human history can be told through the lens of energy and landscape, and in the coming decades we will have some very stark choices to make with regards to both. Sven Stremke and Andy van den Dobbelsteen have done a splendid job to illustrate the breadth of ongoing research efforts and the relevance of diverse and interdisciplinary approaches to the energy-landscape nexus. This comprehensive book fills a gap in the literature and will be invaluable to a growing number of researchers, practitioners and educators engaging with this topic."

?Dan van der Horst, University of Birmingham, UK

"... builds upon principles of new landscape/ecological science and exergy, and combines attention to material processes with social process, process approach with spatial approach, substantial issues with procedural issues, all of which in turn [are] tested through participatory case study. I recommend this book highly to spatial planners, urban designers as well as landscape architects who are engaged with sustainability."

?Jusuck Koh, Professor of Landscape Architecture, Wageningen University, The Netherlands

"... fills a very significant gap in the literature. ... We desperately need to improve our understanding of sustainable energy landscapes at an international scale, and to develop better approaches to their planning and design. We need to improve our understanding of the complexities of landscape and the way its functions are affected by renewable energy production. We need to devise strategic and detailed methods to evaluate and implement proposals that are ethical and effective, and which have fortunate social and aesthetic side-effects. **Sustainable Energy Landscapes** is, to date, the only book that provides us with critical insights into these challenges."

?Paul Selman, Emeritus Professor, Department of Landscape, University of Sheffield, UK

About the Author

Sven Stremke, Ph.D., is an assistant professor of landscape architecture at Wageningen University in the Netherlands. His research commenced with a particular focus on the mitigation of climate change (sustainable energy landscapes) and has been expanded to include adaptation to climate change (climate-robust landscapes). His research and design has been published in scientific journals, and he has presented his work around the world. Each year, Dr. Stremke and his colleagues conduct commissioned projects on sustainable energy landscapes. He is a member of the scientific advisory board to the New Development of Methods and Tools for Estimation of Sustainability research project in Denmark. Recently, he initiated the launch of an online platform that provides information on projects, publications, teaching, and other activities with regard to energy landscapes (www.NRGlab.net).

Andy van den Dobbelsteen, Ph.D., is a full professor of climate design and sustainability at the Faculty of Architecture of the Delft University of Technology, the Netherlands. He is the coordinator of the Green Building Innovation research program and the built environment theme leader for the Delft Energy Initiative. Dr. Dobbelsteen lectures and leads research projects in various areas of sustainability in the built environment, most notably on sustainable energy systems for neighborhoods, cities, and regions. He has authored many publications, both scientific and popular, and is one of the expert authors for the Dutch national website on sustainable building (www.duurzaamgebouwd.nl). Dr. Dobbelsteen has chaired various national and international events, and he is the joint coordinator of the CIB Working Commission 116 (Smart and Sustainable Built Environments) and a member of several juries, including the Gulden Feniks, the Dutch national renovation prize.

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