





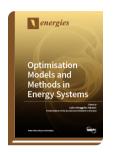
Special Issue Reprint

Optimisation Models and Methods in Energy Systems

www.mdpi.com/books/reprint/1476

Edited by Carlos Henggeler Antunes

ISBN 978-3-03921-118-0 (Softback) ISBN 978-3-03921-119-7 (PDF)



Challenging problems arise in all segments of energy industries—generation, transmission, distribution and consumption. Optimization models and methods play a key role in offering decision/policy makers better information to assist them in making sounder decisions at different levels, ranging from operational to strategic planning.

This book comprises nine papers addressing problems such as the selection of offshore wind farm locations, a model for the analysis of regional energy system management and emission reduction potential, the management of building microgrid networks in islanded mode considering adjustable power and component outages, the portfolio optimization of power generation assets, a graph theoretic approach to optimal firefighting in oil terminals, a university building test case for occupancy-based building automation, the prospects of a meshed electrical distribution system featuring large-scale variable renewable power, a generation expansion planning model for an integrated energy system considering feasible operation region and the generation efficiency of combined heat and power, and the consideration of wind power generation in Brazil's long-term energy planning model.





MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

