Special Issue

Advanced Decision-Making Methods for Hybrid Energy System Planning and Management under Complexities and Uncertainties

Message from the Guest Editors

A hybrid energy system with renewable energy sources, combined heat and power generation, and energy storage devices is a promising option to improve system efficiency, enhance energy supply reliability, and promote traditional energy system transition. Sustainable planning and operation management of the hybrid energy system are two critical issues that need to be addressed. However, various factors need to be considered when implementing a hybrid energy system. Meanwhile, intermittent renewable energy generation, complementary of multi renewable energy sources, stochastic energy demand, fluctuant energy prices, as well as ambiguous policy bring great challenges to decision makers. Despite the fruitful literature, more advanced decision-making tools and multidisciplinary methods are desired to address the outstanding challenges in the planning and management of hybrid energy systems under various complexities and uncertainties. We welcome original research articles, reviews, case, and analytical studies, as well as papers from different disciplines, which are relevant to advanced decision-making methods for hybrid energy system planning and management.

Guest Editors

Dr. Ling Ji

Dr. Zaoli Yang

Prof. Dr. Yulei Xie

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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