



energies



an Open Access Journal by MDPI

Energy Systems Planning and Operation under High Penetration of Renewable Energy Sources

Guest Editors:

Dr. Phillipe Vilaça Gomes

Department of Computer
Science, Universidad Rey Juan
Carlos, Móstoles, Spain

Prof. Dr. Bruno Henriques Dias

Department of Electrical Energy,
Engineering Faculty, Federal
University of Juiz de Fora, Juiz de
Fora 36036-330, Brazil

Dr. Basharat Jamil

Department of Computer Science
and Statistics, Universidad Rey
Juan Carlos, Mostoles, 28933
Madrid, Spain

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

As the energy mix in several countries is becoming more renewable and the active behavior in electricity demand has been introduced rapidly in the last few years through DER, electricity transmission systems are now connecting uncertain and intermittent generation patterns to flexible and autonomous or locally controlled demand movements, and the need for further planning and operation studies is eminently clear.

Therefore, this issue of *Energies* will draw on the findings of mathematical models and applied optimization for renewable penetration from across the world and discuss the use of energy planning and operation in the context of energy transition for the mitigation of global warming and climate change.

We highly encourage papers on cutting-edge industry practice exemplars that may be leveraged to promote the deployment of renewable energy resources across power systems throughout the world.



mdpi.com/si/112780

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)