Special Issue

Planning and Operation of Renewable Energy Systems

Message from the Guest Editor

While there is an ever-increasing effort towards achieving zero-emission energy generation systems, there are still various concerns regarding the satisfactory integration of renewable energy resources. This is mainly due to the intermittent nature and fluctuation of such energy resources. Moreover, attempts to achieve stable operation are met with further challenges caused by the dispersed nature of renewable energy generators. There is a great need for these concerns to be properly addressed through the development of more efficient planning and operational methods. This Special Issue aims to cover technical issues in the planning and operation of renewable energy systems (RESs) to promote clean energy utilization while improving energy efficiency. Topics of interest include but are not limited to the following:

- Optimal methods in both planning and operation of RESs;
- Efficient strategies for dynamic evaluation of RESs;
- Small signal and large signal stability analysis of RESs;
- Appropriate protection scheme for RESs;
- Reliability considerations in both planning and operation of RESs;
- Challenges with RESs in off-grid microgrids;
- Power electronics interfaces for RESs.

Guest Editor

Dr. Ehsan Pashajavid
School of Engineering and Technology, Central Queensland University, Perth, WA 6000, Australia

Deadline for manuscript submissions

closed (20 December 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 8.3

mdpi.com/si/66997

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 8.3

mdpi.com/journal/energies

About the Journal

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.

Editor-in-Chief

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

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 (Control and Optimization)