Special Issue

Simulation and Modeling for Low-Carbon Energy Systems

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the theory, modelling, application and control of low-carbon power systems and multi-energy systems. The scope of this Special Issue includes, but is not limited to, the following topics:

- All aspects of the modelling and simulation of power systems and energy systems, including the production, transformation, distribution and utilization of energy.
- Design, theory, and methods used to plan, model and simulate power systems and energy systems.
- Modelling and simulation based on carbon emission theory in power systems and energy systems.
- The centralized or distributed optimization theory, design and algorithm of power systems and energy systems.
- Advanced modelling approaches for energy systems, including data-driven methods, model-based methods, and hybrid patterns.

Guest Editors

Dr. Peng Wang

Dr. Yaowang Li

Dr. Xu Zhou

Deadline for manuscript submissions

closed (25 April 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/205846

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 3.2
CiteScore 7.3

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)

MDPI