Special Issue

Sustainable Transportation: Impact on Power Systems and Future Energy Markets

Message from the Guest Editors

The energy sector is undergoing major changes driven by decarbonization, decentralization, and digitalization, with future systems expected to integrate high levels of renewables and distributed energy resources. Electric vehicles (EVs) will play a crucial role, but large-scale adoption poses challenges to grid reliability and market stability. Integrating EVs through smart grids and demand-side management can help address these challenges by optimizing charging and enabling EVs to support grid operations. This Special Issue invites interdisciplinary research on the impact of sustainable transportation on power systems and energy markets, covering technical, analytical, and case study-based contributions.

Guest Editors

Dr. Fernando Lopes

LNEG—Laboratório Nacional de Energia e Geologia, Estrada Paço do Lumiar 22, P-1649038 Lisbon, Portugal

Dr. Sriparna Roy Ghatak

School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar 751024, India

Deadline for manuscript submissions

10 December 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/243957

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)