

Special Issue

Carbon Emissions in the Energy Sector: Trends, Challenges, and Solutions

Message from the Guest Editors

Our aim is to gather diverse perspectives from researchers, policymakers, and industry experts to comprehensively evaluate past efforts, current trends, and future possibilities. By examining both technological advancements and institutional frameworks, we seek to elucidate the multifaceted nature of decarbonization and its implications for energy security and sustainability. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following topics:

- The development and application of renewable energy technologies, such as solar, wind, and geothermal power;
- Innovative approaches to enhance energy storage solutions for balancing supply and demand in a low-carbon grid;
- The analysis of the economic and social impacts of decarbonization strategies on various stakeholders within the power sector;
- Policy recommendations and regulatory frameworks that can facilitate the transition to a low-carbon energy system;
- Interdisciplinary studies exploring the synergies between energy efficiency, emissions reduction, and grid reliability.

Guest Editors

Dr. Lei Chen

Dr. Yongyang Wang

Dr. Linlin Xia

Dr. Feng Liu

Dr. Ruwei Wang

Deadline for manuscript submissions

22 December 2025



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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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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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

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