

Special Issue

Renewable Energy and Power System Transformation: Striving Towards Carbon Neutrality

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- The mechanisms for the further proliferation and integration of renewable energy resources including wind, solar, and so on.
- The operation, planning, and economics of decarbonization pathways in reaching net-zero targets in electrical power and integrated energy systems.
- Reliability evaluation and risk analysis of power and integrated energy systems considering climate shocks and natural disasters.
- Electrical power and energy system solutions for the decarbonization of transportation (road, rail, maritime, air, intermodal, and pipeline), industrial, and real estate sectors.
- System-level solutions and analysis of integrating carbon capture, utilization, and storage (CCUS) technologies.
- The mechanisms and solutions for carbon markets, virtual power plants, and transactive energy and their role in addressing climate change issues in electrical power and integrated energy systems.

We look forward to receiving your contributions.

Guest Editors

Dr. Changzheng Shao

School of Electrical Engineering, Chongqing University, Chongqing 400044, China

Dr. Yizhou Zhou

School of Electrical and Power Engineering, Hohai University, Nanjing 211100, China

Deadline for manuscript submissions

closed (31 May 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/195972

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)