

Special Issue

Smart Electricity Grid and Sustainable Power Systems

Message from the Guest Editor

Power grids are evolving into smart grids with complicated integrations of sustainable energy sources, networks, loads, and storage towards a decarbonized future of human beings. To realize the goal of 'double carbon', the mass access of sustainable energy becomes another significant feature of smart grids. A smart grid with a high penetration of sustainable energy is highly complex with multiple dynamic modes, which brings technical challenges to the operation of such a system. The development and construction of smart grids that integrate sustainable energy urgently require further theoretical innovation, key technological breakthroughs, and engineering practice in planning, operation, and security technology. To promote theoretical and practical study in the sustainable management of smart grids, the editorial board of Sustainability invites potential authors to submit articles for review and publication in this Special Issue of Sustainability on Smart Electricity Grid and Sustainable Power Systems. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

Guest Editor

Prof. Dr. Jidong Wang

Key Laboratory of Intelligent Power Grid Ministry of Education, Tianjin University, Tianjin 300072, China

Deadline for manuscript submissions

15 September 2025



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/199204

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)