

## Special Issue

# Sustainable Electric Power Systems: Design, Analysis and Control

### Message from the Guest Editors

For efficient and reliable power systems, there is a growing emphasis on advanced energy storage techniques. This Special Issue focuses on the innovative solutions and state-of-the-art studies for the design, analysis and control of sustainable power systems in the frame of the energy transition.

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

Low-carbon electric power system structure design; Modeling of energy-saving equipment in sustainable electric power systems; Capacity planning of sustainable energy and energy storage systems; Big Data techniques for renewable energy forecasting and shiftable loads analysis; Data-driven energy management methods for the distribution of energy resources and energy storage systems; Stability analysis of electric power systems with high-penetrated renewable energy; Optimal control for integrated energy systems; Business models and marketing tools for low-carbon/economic efficiency; Modeling of equivalent circuits of energy storage systems.

---

### Guest Editors

Dr. Boyu Qin

Dr. Ke Ma

Dr. Qianjun Zhang

---

### Deadline for manuscript submissions

closed (30 November 2023)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/109969](https://mdpi.com/si/109969)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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)