

## Special Issue

# Power System Control, Optimization, Smart Grids and Renewable Energy Integration for Energy Sustainability

### Message from the Guest Editors

Energy sustainability is an important branch in the field of sustainable development research. Currently, with the escalating issues of energy crisis and environmental pollution, energy sustainability has become an urgent global challenge. Through optimized scheduling of transmission, transformation, and distribution, comprehensive energy demand response, energy storage and regulation, interactions between electric vehicles and the grid, and energy electricity markets, the green, sustainable, safe, and efficient utilization of energy resources can be achieved. The aim of this Special Issue is to collect high-quality research papers on power system control, optimization, smart grids, and the integration of renewable energy. Research areas include but not limited to the following:

- Power system control and optimization;
- Smart grids and renewable energy integration;
- Energy storage and saving technologies;
- Wind power and solar-related technologies;
- Power system wide area perception and advanced metering infrastructure;
- High voltage and insulation technology;
- Electric vehicles and smart grids;
- Artificial intelligence and energy internet.

---

### Guest Editors

Prof. Dr. Ting Yang

Prof. Dr. Donglian Qi

Dr. Feng Zhou

---

### Deadline for manuscript submissions

closed (30 June 2024)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/180875](https://mdpi.com/si/180875)

*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)