



## Sustainable Electric Power Systems: Design, Analysis and Control

Guest Editors:

### Dr. Boyu Qin

1. School of Electrical Engineering, Xi'an Jiaotong University, Xi'an 710049, China  
2. School of Energy and Electrical Engineering, Qinghai University, Xining 810016, China

### Dr. Ke Ma

School of Materials Science and Engineering, Tianjin University of Technology, Tianjin, China

### Dr. Qianjun Zhang

School of Materials Science, Shanghai Dianji University, Shanghai, China

Deadline for manuscript submissions:

**closed (30 November 2023)**

### Message from the Guest Editors

Dear Colleagues,

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.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Steve W. Lyon**

School of Environment and  
Natural Resources, Ohio State  
University, Columbus, OH 43210,  
USA

## 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

## 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](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)