

Special Issue

Smart Grid and Control System for Higher Resilience and Reliability

Message from the Guest Editor

Interruptions to the supply of electric power from power systems due to occurrence of typhoons and storms and floods have increased in recent years. The Special Issue invites research on attempts to maintain supply of electric power and thermal energy using microgrids in the context of various disaster conditions. In order for a continuous power supply to be secured and energy management systems to be maintained for several days, solar power generation and wind power generation can be used. However, it is necessary to introduce optimum energy management methods in critical cases. In addition, electric vehicles are particularly useful transportation tools in certain disaster conditions and the storage batteries of electric vehicles can also be used to supply electricity. The Special Issue invites researchers in fields of power control and management, renewable power distribution, power quality measurement and control to submit their quality research works for publication. The Special Issue includes but is not limited the following topics:

- Micro grid
- Power system
- Renewable energy
- Resilience of power supply
- Electric vehicle
- Smart house/building

Guest Editor

Prof. Dr. Tomonobu Senjyu

Faculty of Engineering, University of the Ryukyus, 1 Senbaru Nishihara-cho Nakagami, Okinawa 903-0213, Japan

Deadline for manuscript submissions

closed (31 December 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/100855

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)