sustainability

an Open Access Journal by MDPI

IMPACT FACTOR 3.3

CITESCORE 7.7

Unlocking the Flexibility of Local Energy Systems for Supporting Carbon Reduction

Guest Editors:

Dr. Yu Liu
School of Electrical Engineering, Southeast University, Nanjing 210018, China

Dr. Chuanshen Wu
School of Engineering, Cardiff University, Cardiff CF24 3AA, UK

Dr. Ningyu Zhang
State Grid Jiangsu Electric Power Co. Ltd. Research Institute, Nanjing 210000, China

Deadline for manuscript submissions:
closed (15 January 2024)

Message from the Guest Editors

With the net-zero transition aimed to be reached globally by 2050, more renewable power generation systems are to be installed in local energy systems to keep up with the increased electricity demands. Power systems face multiple challenges in balancing supply and demand, e.g., increased peak demands, unbalanced load distributions, etc.

The flexibility of local energy systems, i.e., the ability to change normal electricity generation/consumption patterns, such as adjusting the renewable power generation onsite to provide auxiliary services to the networks, can be utilized to address these challenges.

The Special Issue "Unlocking the Flexibility of Local Energy Systems for Supporting Carbon Reduction" calls for high-quality research articles highlighting recent contributions. Topics of interest include, but are not limited to:

- Modelling and simulation of local energy systems;

- Optimal scheduling and control of flexible resources;

- Renewable energy absorption in local energy systems;

- Uncertainty analysis of industrial plants, and renewable power generation;

- Advanced sensing, communication, simulation, optimization, and control technologies.

mdpi.com/si/148868

Special Issue

sustainability

IMPACT FACTOR 3.3

CITESCORE 7.7

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
𝕏@Sus_MDPI