

Special Issue

Innovative Solutions for Integration of Distributed Energy Resources

Message from the Guest Editors

The deployment of distributed energy resources (DERs) and renewable energy resources in electrical grids is significantly increasing throughout the world. Influenced by the increasing penetration of “behind-the-meter” DERs, power systems are experiencing a paradigm shift from a centralized structure to a decentralized one. An increasing number of customers in electricity markets are seeking to mitigate rising electricity prices and reduce their greenhouse gas emissions by deploying their own on-site renewable generation and storage. These changes will require the development of innovative approaches and technology solutions to ensure the efficient integration and coordination of DER. Efficient DER integration is expected to increase the value of local management of these resources and provides DER owners with the opportunity to maximize the return on their investment taking into account the increasing digitalization of the energy sector with more advanced communication technologies. From a grid perspective, coordinated and controlled use of DERs can provide substantial benefits for the stability of the broader network.

Guest Editors

Dr. Mohsen Khorasany

Dr. Reza Razzaghi

Dr. Farhad Shahnia

Deadline for manuscript submissions

closed (26 March 2023)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.8



mdpi.com/si/66949

Sustainability
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 6.8



[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, AGRIS, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)