



Sustainable Future of Power System: Estimation and Optimization

Guest Editors:

Dr. Abdullah Shaheen

Department of Electrical Power
Engineering, Faculty of
Engineering, Suez University,
Suez 43533, Egypt

Prof. Dr. Ragab A. El-Sehiemy

Electrical Engineering
Department, Faculty of
Engineering, Kafrelsheikh
University, Kafrelsheikh 33516,
Egypt

Deadline for manuscript
submissions:
closed (23 October 2023)

Message from the Guest Editors

Dear Colleagues,

During the last two decades, the total capacity of generated energy in power networks has quickly grown and become increasingly diverse. This supports increasing sustainable development in renewable power sources such as solar PVs, wind turbines, battery storage, and electric vehicles. Additionally, significant challenges are concerned with improving electricity quality in power networks to promote their optimal planning, operation, and control.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Enhancing the performance of traditional and modern power networks.
- Integration of renewable energy sources in power systems.
- Optimization techniques for sustainable power system planning, operation, and control.
- Optimal control of sustainable power systems with merged new technologies such as FACTs, HVDC, voltage source stations, onshore and offshore wind turbines, storage units, etc.
- Mathematical, heuristic, and meta-heuristic methods for dealing with nonlinearities and nonconvexities in sustainable power system issues.





an Open Access Journal by MDPI

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

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.

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](#), [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](https://twitter.com/Sus_MDPI)