





an Open Access Journal by MDPI

Advances in Electrical Systems for Environmental and Human Sustainability

Guest Editors:

Dr. Francesco Riganti-Fulginei

Department of Industrial, Electronic and Mechanical Engineering, Università degli Studi di Roma Tre, 00146 Roma, Italy

Dr. Michele Quercio

Department of Industrial, Electronic and Mechanical Engineering, Università degli Studi di Roma Tre, 00146 Roma, Italy

Deadline for manuscript submissions:

closed (31 May 2024)

Message from the Guest Editors

The increasing demand for sustainable energy solutions has led to the development of advanced electrical systems that can effectively manage and optimize PV, energy storage, and WPT systems. One crucial aspect of this is the modeling and simulation of these kinds of systems, which are widely used in electric vehicles and renewable energy systems. Another important aspect is the modeling of battery behavior that is essential for predicting performance, estimating capacity and voltage, and ensuring safe and efficient operation. The importance of these advances in electrical systems for environmental and human sustainability cannot be overstated. The use of sustainable energy solutions is critical for reducing greenhouse gas emissions and mitigating the impacts of climate change.

This Special Issue is dedicated to exploring the latest advances in research on wireless power transfer, photovoltaic systems, battery storage, electrical vehicles, and artificial intelligence (AI). These are all critical components of modern power systems, and their continued development is essential for ensuring the efficient and sustainable generation, distribution, and consumption of electrical energy.









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 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