



Hybrid Energy System

Guest Editor:

Dr. Muhammad Imran

Department of Mechanical,
Biomedical and Design
Engineering, College of
Engineering and Physical
Sciences, Aston University,
Birmingham B4 7ET, UK

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editor

In order to achieve zero emission targets, it is imperative that renewable energy sources play a critical role in future energy systems. However, most renewable energy resources are intermittent in nature and depend on weather conditions. Therefore, the use of a single renewable energy system often leads to excessive system size due to the randomness and the intermittent nature of some renewable energy resources. This phenomenon increases the system capital cost and hinders system reliability. Consequently, hybrid renewable energy systems integrated with renewable energy resources and/or other energy sources (nonrenewable energy sources) and energy storage can be used to address these challenging and unavoidable obstacles. Optimal designs of energy systems become vital in such circumstances, which is always a challenging process where a number of technoeconomic and environmental aspects need to be considered. In this context, this Special issue aims to present a collection of research work that resolves the major barriers around the design, modeling, optimization, and technoeconomic assessment of hybrid energy systems from a practical implementation perspective.





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, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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