



Advances in Renewable Energy Production and Storage

Guest Editors:

Prof. Dr. José Antonio Cortajarena

Department of Electronic Technology, Faculty of Engineering, Gipuzkoa (Eibar), University of the Basque Country, UPV/EHU, Avda Otaola N29, 20600 Eibar, Spain

Prof. Dr. Oscar Barambones

Department of System Engineering and Automation, Faculty of Engineering of Vitoria-Gasteiz, University of the Basque Country, UPV/EHU, Vitoria, Spain

Prof. Dr. Patxi Alkorta

Department of Systems Engineering and Automation, Faculty of Engineering, Gipuzkoa (Eibar), University of the Basque Country, UPV/EHU, Avda Otaola N29, 20600 Eibar, Spain

Deadline for manuscript submissions:

closed (10 February 2024)



Message from the Guest Editors

Dear Colleagues,

The decarbonisation objectives set by the European Commission inherently involve the use of renewable energies, and improvements in its production and storage will be key to its extensive use. Advances in renewable energy production can be generated throughout the whole chain, i.e., production, management, control and/or storage. And the energy can be stored using different technologies or systems, like, using mechanical, chemical, electrochemical, thermal and electrical systems.

This Special Issue welcomes original proposals focusing on improvements in the use of different types of renewable energies and storage methods, including, among other things, the following topics:

- Improvements in renewable energy production.
- Modelling and control techniques on renewable energy sources and storage.
- Power electronic converters for renewable energy sources and storage.
- Electric generator control.
- Quality of injecting renewable energy into the grid.
- Storage systems.
- Safety issues on storage systems.
- Electric vehicles as energy storage systems and applications.
- Application of stored energy supporting grid quality.



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