

## Special Issue

# Sustainable Storage and Utilization of Renewable Energy

### Message from the Guest Editors

The sustainable utilization of renewable energy requires an integrated approach that combines different technologies and processes to ensure efficiency and reliability. This includes the exploration and integration of multiple renewable sources and effective strategies for storage, optimization, dispatch, and greenhouse-gas mitigation.

This Special Issue focuses on sustainable deployment, conversion, and management of renewable energy through the development of advanced technologies, intelligent control systems, and energy system modeling and optimization frameworks. It welcomes studies on renewable generation and management, bioenergy valorization, and the integration of renewable sources within energy systems.

The issue also explores the role of energy storage in enhancing system flexibility and resilience, covering both stationary and mobile applications, as well as aspects such as storage degradation and lifecycle optimization.

This Special Issue will complement existing literature, provide a holistic view of how storage and renewable energy can accelerate the energy transition while ensuring efficiency, reliability, and long-term sustainability.

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### Guest Editors

Dr. Gabriele Fambri

Department of Energy, Politecnico di Torino, Torino, Italy

Dr. Cesar Diaz-Londono

Center for Research on Microgrids (CROM), Huanjiang Laboratory, Zhuji, China

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## Sustainability

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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# 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

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