

Special Issue

Energy Storage Technologies for a Sustainable Future

Message from the Guest Editors

As the world transitions towards cleaner energy, energy storage plays a crucial role in providing flexibility, stabilising intermittent generation resources, improving grid stability, and alleviating transmission congestion. Therefore, this Special Issue aims to compile innovative research on challenges and opportunities in energy storage. We welcome papers focusing on market mechanisms, regulation, strategic behaviour, and the operation of storage systems including batteries, hydrogen, hydro reservoirs, and pumped storage, among other technologies. Authors are encouraged to explore market integration and operational strategies for both large-scale and distributed storage systems, either in combination with non-dispatchable generation or as stand-alone solutions, considering the social and economic aspects involved.

Guest Editors

Prof. Dr. Isaac Dyner

Dr. Dalia Patino-Echeverri

Dr. Camila Ochoa

Deadline for manuscript submissions

closed (1 June 2025)



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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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.

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

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