

## Special Issue

# Distributed Energy Resources: Advances, Challenges and Future Trends

### Message from the Guest Editors

Dear Colleagues Distributed Energy Resources (DERs) represent a transformative force in the modern energy landscape, reshaping the way electricity is generated, managed, and consumed. As the global energy sector transitions towards more sustainable and resilient systems, DERs—including solar photovoltaic systems, wind turbines, energy storage solutions, electric vehicles, and demand response technologies—are at the forefront of this evolution. This Special Issue aims to bring together cutting-edge research and innovative solutions that address the technical, economic, and regulatory challenges associated with DERs. We invite contributions that explore the integration of DERs into the grid, their role in enhancing energy security and reliability, and their potential to support the transition to a low-carbon economy.

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### Guest Editors

Prof. Dr. Oswaldo Hideo Ando Junior

Prof. Dr. Fabiano Salvadori

Prof. Dr. Marco Roberto Cavallari

Prof. Dr. Taynara Geysa Silva Do Lago

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### Deadline for manuscript submissions

closed (10 December 2025)



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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