

Special Issue

Acceleration of Renewable Energies Expansion and Harvesting Technologies

Message from the Guest Editors

This Special Issue is concentrated, but not limited, on the following subjects:

- Proposing economic analysis for the expansion of renewable energy sources considering operation constraints and uncertainties in both transmission and distribution systems.
- Sizing and siting multiple energy storage systems (e.g., battery energy storages, hydrogen storages, etc.) to provide the required flexibility considering both economic and practical assessment.
- Proposing optimal solutions to figure out the required flexibility in system based on the installed renewable energy capacity.
- Designing capacity, day-ahead, and real-time markets mechanism for involving renewable energies and storage systems in them.
- Proposing novel ideas for uncertainty management under a high penetration of renewable energy sources by using energy storage systems.
- Fairly dividing the required flexibility among agents who are more interested in energy arbitrage in both transmission and distribution systems.

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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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