

Special Issue

Advances in Power System and Renewable Energy

Message from the Guest Editors

The global energy sector is undergoing a profound transformation, as most developed and some developing nations strive to meet decarbonization goals, enhance energy security, and improve grid resilience. The rapid integration of renewable energy sources (RESs) into power systems, such as solar and wind power, as well as emerging technologies like green hydrogen and tidal energy, have introduced both opportunities and challenges. Modern power systems must adapt to increasing RES penetration while maintaining security, stability, reliability and economics. Advances in smart grid technologies, energy storage, power electronics, and digitalization are critical to enabling this transition. Additionally, regulatory frameworks, market mechanisms, and economic policies play a pivotal role in accelerating the adoption of sustainable energy solutions.

We invite original research articles, review papers, and case studies that explore recent advancements in (but not limited to) the following areas:

Renewable Energy Integration
Smart Grids and Modern Power Systems
Energy Storage and Flexible Resource
Power/energy economics and electricity markets

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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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