

Special Issue

New Challenges and Prospects of Smart Energy Systems for Sustainable Communities

Message from the Guest Editors

We invite submissions to the *Energies* Special Issue on “New Challenges and Prospects of Smart Energy Systems for Sustainable Communities.” Smart energy systems are essential for transitioning to a decarbonized, renewable energy-based society. They integrate renewable energy sources, optimize energy efficiency, and support sustainable development by balancing environmental, social, and economic goals. These systems rely on energy storage, decentralized grids, and smart technologies. However, challenges remain in their implementation, requiring innovative technologies, investment, policies, local collaboration, societal support, and adaptation to local conditions. Multidisciplinary innovation and inclusive policies are critical to ensuring resilient, equitable energy solutions. We welcome contributions on:

- Innovative renewable energy integration
- Advanced grid management
- Energy storage
- IoT/AI-based optimization
- Energy communities
- Fair energy transition strategies

We also invite insights on policy, economic feasibility, cybersecurity, and societal acceptance. Case studies and interdisciplinary approaches are highly encouraged.

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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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