

## Special Issue

# Smart Innovations and the Energy–Food–Water–Waste Nexus in the Context of Sustainable Urban and Rural Bioeconomies

### Message from the Guest Editors

The aim of this Special Issue is to explore the components, processes, challenges, and opportunities related to the application of smart innovations for the proper usage and management of EFWW in the context of urban and rural bioeconomies from various environmental, economic, social, and technological perspectives. We welcome empirically grounded and theoretically based research papers, reviews, and meta-analyses focused on recent developments and future prospects in this research field. Additionally, the wrap-up “editorial” will provide a synthesis of the papers published in this Special Issue, outlining the papers’ contributions to the research field and providing the Editor’s perspectives on future developments in this area.

- energy–food–water–waste (EFWW) nexus
- effective and efficient EFWW use
- biofuels and bioenergy
- smart innovations
- AI, big data, IoT, machine learning
- EFWW nexus in urban and rural areas
- EFWW nexus policy
- EFWW nexus economics

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2025)



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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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