

Special Issue

Empowering Communities for Sustainable Energy Systems

Message from the Guest Editors

The rapid transformation of the global energy landscape calls for innovative solutions. Energy communities have emerged as a cornerstone of the energy transition, offering decentralized, participatory, and sustainable alternatives to traditional power systems. By enabling citizens, municipalities, and local stakeholders to actively engage in energy production, distribution, and consumption, energy communities foster social innovation while advancing environmental and economic goals.

In recent years, the scientific literature on energy communities has expanded significantly, highlighting their role in accelerating the deployment of renewable energy and enhancing system flexibility. Studies have demonstrated their potential to reduce carbon emissions and increase resilience against market and climate uncertainties. This growing body of work underscores the importance of deepening our understanding of how energy communities operate, scale, and integrate within broader energy systems.

This Special Issue seeks to explore the multifaceted role of energy communities in shaping sustainable energy systems, welcoming contributions on technical, regulatory, economic, and social dimensions.

Guest Editors

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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