

Special Issue

Energy Economy and Sustainable Energy Development

Message from the Guest Editors

The Special Issue focuses on the demonstration of new energy systems based on decentralized operation and the use of artificial intelligence. The aim is to address the prevailing challenges while also identifying broad opportunities for developing new business units in the energy sector. To ensure a smooth energy transformation, it is essential to pool competencies, financial resources, and a clear vision of how the transformation should unfold.

All possible actions are needed to accelerate the transition to renewable resources, including clean energy production, the use of bio-waste, promoting energy-efficient consumption, and large-scale electrification. These models can be targeted at developing countries facing issues with fossil fuel supply and dependence on energy imports. The development of battery technology allows competitive storage of electricity generated during periods of surplus production. The development of decentralized systems would allow capital to be retained domestically, increasing their competitiveness.

Key topics include, but are not limited to, the following:

- regional energy systems
- decentralization
- producing consumers
- synergies effects

Guest Editors

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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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