Special Issue

The Development of Energy Systems: Sustainability, Intelligence and Optimization

Message from the Guest Editors

The fight against global warming accelerates the level of renewable and carbon-free energy production, which promotes the use of renewable solutions in the energy mix. The intermittent nature of renewable energies requires the ability to manage the optimization between production and demand in real-time. Electricity storage can help solve the problem of intermittency. However, the need for energy storage requires the rethinking of electrical networks. Solutions will vary, depending on whether it is possible to compensate for intermittency by finding electricity without distance constraints, or to envisage a decentralized system in which energy must be produced locally and with less impact on the environment. Energy storage technology provides a solution for this. Compared to large electrical grids, small-scale decentralized installations with diverse storage technologies contribute to the development of energy systems. This Special Issue focuses on the broad topic of energy system development. It will include articles that target sustainable solutions incorporating, in whole or in part, storage technologies or renewable sources for decarbonized energy production.

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Deadline for manuscript submissions

closed (13 February 2024)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/156409

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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. *Sustainability* publishes original research articles, review 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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