Special Issue

Advanced Energy Systems Planning and Scheduling in Energy Markets: The Role of Flexibility for the Energy Transition

Message from the Guest Editor

The global energy market is transitioning away from fossil fuel-based energy production and consumption systems, such as oil, coal, and natural gas, to renewable energy sources, including solar and wind. Decarbonization of the energy system necessitates immediate global action, and although a global energy transition is underway, additional interventions are required to minimize greenhouse gas emissions and reduce climate change's impacts. The main scope of this Special Issue is to develop new optimization approaches and methodological frameworks for advanced energy systems planning and scheduling in energy markets, putting particular emphasis on the flexibility service providers. State-of-the-art works, in combination with innovative case studies, are invited. Multidisciplinary research and cutting-edge approaches are welcomed to address the challenges posed by energy systems and markets at various time scales, from the very short to the very long term.

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/87861

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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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