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Energy System Optimization Modeling for System Planning, Operation Scheduling, Energy Management, and System Analysis

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Message from the Guest Editor

Dear Colleagues,

To reduce the load on the global environment and realize a sustainable society, the spread of renewable energy is expanding worldwide. Not only are there systems that convert renewable energy into electric power and use it, but also systems that use it as thermal energy. It is important to design the system, including energy-using equipment, to promote the further spread of renewable energy. It is necessary to promote solar heat utilizing equipment.

This Special Issue focuses on energy system analysis, energy system design, equipment planning, system operation scheduling, and energy management using “Mathematical Programming/Optimization”. It targets energy systems of various scales: a house, an apartment, a factory, an office building, a public facility, and regional systems such as combined heat and power, one electric power system, multiple power systems connected by power network, and the supply chain of conventional fossil fuels and hydrogen across countries, etc.



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Special Issue



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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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