Special Issue

Advanced Modeling and Optimization Technologies for Building Energy Efficiency

Message from the Guest Editors

With the increase in distributed building photovoltaic, intelligent power consumption and power storage devices, buildings are not only users of electric energy but also play a role in electric energy production, peak shaving, and storage. Determining how to reasonably dispatch and absorb the energy supply and demand between buildings and reduce power abandonment has posed new challenges to research on building energy systems. For example, two-way interaction between buildings and power grid requires information about instantaneous building energy consumption with high accuracy; to ensure the balance of energy supply and demand within the grid, it's necessary to establish multiscale building community energy demand models. This Special Issue aims to collect scientific contributions presenting results dealing with advanced modeling and optimization technologies for building energy systems, including but not limited to energy management, demand-side modeling, design and optimization of new energy systems within building energy efficiency, or related areas.

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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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