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Renewable Energy Integration into Power Grids and Buildings

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Message from the Guest Editor

This Special Issue aims at acting as a bridge between research and development groups for state-of-the-art application of intelligent methods in modeling, optimizing, controlling, and designing frameworks that consider the interlinks between buildings and smart grids. We are looking for solutions that result in efficient resource allocation and control of integrated energy-building systems, especially when a high penetration of renewables and storage units exists. Researchers from academia, industry, and government are invited to submit their original and unpublished work to this Special Issue. The topics of interest include but are not limited to:

- Grid interactive buildings;
- Application of model-predictive control in grid optimization;
- Demand response through building energy management;
- Application of machine learning for optimization of grid and buildings;
- Application of machine learning for control of grid-integrated buildings;
- Real-time optimization and control of renewables integrated to buildings and grid.



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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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