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Zero-Carbon Buildings

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Message from the Guest Editors

Dear Colleagues,

Ambitious targets for reducing greenhouse gas (GHG) emissions have been set by governments to limit the projected impacts of anthropogenic climate change. Buildings and related activities account for a significant share of our use of natural resources, water and energy, and are vital for the development and implementation of low- and zero-carbon technologies and policies.

This Special Issue aims to publish high-quality research articles on the latest developments in zero-carbon buildings spanning the whole lifecycle—from design to operation and reuse/recycle, focussing on technology, policies and practices. The topics include, but are not limited to, the following:

- Building simulation and optimization
- Distributed energy resources and storage
- Smart buildings, neighbourhoods and districts
- Computational intelligence and data analytics
- Policies and regulations
- Energy and water use in buildings
- Climate change adaptation
- Building stock modelling and refurbishment



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Guest Edit

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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