



Renewable Energy Utilization for Energy Saving and Carbon-Emission Reduction

Guest Editor:

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Message from the Guest Editor

With the increasing demand of the global environment change and regional sustainable development, how to utilize the renewable energy for the energy saving and carbon-emission reduction has become an urgent and challenging issue to be addressed. New types of energy systems related to wind power, solar power, biomass and geothermal energy arise, which can generate, store, distribute and flexibly use renewable energy sources, and differ from the traditional energy system merely interacted with the power grid.

This Special Issue aims to invite researchers to present the most recent advances related to energy saving and carbon-emission reduction by using renewable energy:

- Advances in renewable energy technology;
- Design, modelling and simulation of renewable energy systems;
- Optimization and control of renewable energy systems;
- Energy storage and integration;
- Calculation and evaluation of carbon emission;
- Grid-connected photovoltaic power systems;
- Energy Internet and electricity market;
- Microgrid, smart grid and smart energy;
- Topology and robust control of modular multilevel AC/DC converters and inverters;
- Networked and multi-network cooperative control.





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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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