Special Issue

Research on Energy Storage and Conversion Management

Message from the Guest Editors

The global energy consumption, which is predicted to double within the next 40 years, demands a shift towards the widespread use of renewable energy, of which the penetration might further increase due to its sustainability and energy conversion efficiency. Under the targets of carbon peak and neutralization worldwide, challenges concerning power system operation and energy management will be introduced by the cluster uncertainty of renewable energy. With the development of energy storage techniques and conversion mechanisms, the research gaps in large-scale renewable energy applications could be filled effectively, when improving the flexibility of power systems, promoting the consumption of renewable energy and ensuring the security of power grids. In modern power systems, the renewable energy integration with energy storage systems has attracted significant attention thus far. As a result, the enhancement of energy utilization efficiency, advanced energy conversion devices and facilitated strategy of energy management are noteworthy concentration areas for research.

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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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