Special Issue

Electrical Energy Storage Modeling

Message from the Guest Editor

Currently, Electrical Energy Storage (ESS) systems that can help stabilize the intermittent energy generation associated with renewable sources such as wind and solar energy are needed. A reliable EES design strategy will help us understand the different operational scenarios and the impact of EES on the installed capacities of renewable energy sources in the energy grid. A modeling approach can be used to simulate, analyze, and aid the design of EES and assess their impact on power grid/electrical systems. This Special Issue seeks to contribute to the development and design of reliable EES systems through multidisciplinary scientific contributions. We invite papers that focus on different types of EES modeling such as batteries, flow and solid oxide cells, supercapacitors, flywheels, etc. Models focused on design decisions related to EES system operation, performance, thermal management, durability, system integration, reviews and case studies relevant to EES modeling are welcome.

Guest Editor

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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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