Special Issue

Advanced Systems and Components for Medium and Long-Term Energy Storage

Message from the Guest Editors

The are inviting submissions to a Special Issue of Energies on the subject area of “Advanced Systems and Components for Medium and Long-Term Energy Storage”. Topics of interest for publication include, but are not limited to:

Energy storage impact on power systems at the regional, national, or international scale;
Optimal scheduling and design;
Economic feasibility analysis in current and future scenarios;
Off-design and part-load modeling and simulation;
Dynamic modeling and simulation;
New concepts and technologies;
Pumped Thermal Energy Storage (PTES);
Liquid Air Energy Storage (LAES);
Carnot batteries and thermal exergy storage technologies;
Flow batteries, with a special focus on components, electrolytes, and other measures intended to improve the performance and the capacity;
Innovative electrochemical technologies suited for medium and long-term energy storage on utility scale;
Development of new components for storage technologies;
Development of turbomachines and heat exchangers for storage technologies.

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About the Journal

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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