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Grid-Scale Energy Storage Technologies in Achieving a Carbon Free Electricity System – Technological Challenges and Perspectives

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Message from the Guest Editors

Energy storage is expected to play a key role in enabling the future grand transitioning of the global electricity sector to a carbon-free, reliable and secure electricity system, facilitating the grid penetration and market introduction of renewable-based power generation.

This Special Issue invites high-quality research papers covering a wide range of topics related to the key challenges of well advanced or forthcoming grid-scale energy storage applications from the aspect of a number of underlying technical, economic and regulatory issues that need to be overcome to allow further storage deployment at European and global level.

Deadline for manuscript
submissions:

closed (30 June 2022)

- Electricity system
- Electricity production and storage
- Grid-scale storage
- Electricity system flexibility
- Security of energy supply
- Renewable energy sources
- Decarbonization
- Carbon-free electricity
- Energy storage technologies



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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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