



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.

- 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

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