Special Issue

Resilience and Security of Modern Power Systems

Message from the Guest Editors

Power systems are some of the most critical infrastructures in modern society; however, recent years have seen many blackouts caused by extreme events. In the meantime, the way power systems operate is more complex and variable. Therefore, it is of great significance to explore key technologies under the complex influence of extreme events and high renewable penetration. This Special Issue aims to address these challenges and key technologies for improving the resilience of power systems. Topics of interest for publication include, but are not limited to, the following:

- Evaluation methods for power system resilience;
- Vulnerability modelling of power systems under extreme events or high renewable penetration;
- Resilient operation and control of power systems;
- Recovery and restoration strategies for resilience enhancement;
- Planning of resilient power systems;
- Resilience of power systems with high renewable penetration;
- Resilience of hybrid AC/DC power systems;
- Resilience of multienergy systems/integrated energy systems;
- Resilience of cyber–physical systems;
- Big data and artificial intelligence approaches for resilience enhancement.

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Deadline for manuscript submissions

closed (20 May 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/176135

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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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