Special Issue

Artificial Intelligence in Energy Sector

Message from the Guest Editors

This Special Issue aims to collect and publish recent progress made pertaining to either theoretical innovation or practical applications of recent cutting-edge AI methods in energy system-related areas (e.g., electrical power, gas, heat). The topics include, but are not limited to, the following:

- AI methods for active distribution networks (outage detection, restoration, etc.);
- AI methods for power markets (trading, auction, mechanism design, etc.);
- AI methods for microgrid operation and control (island operation, protection, etc.);
- AI methods for power system dynamics (simulation, model reduction, etc.);
- AI methods for power system reliability analysis (Monte Carlo acceleration, etc.);
- AI hardware for power system applications (edge computing, embedded AI, etc.);
- AI for building energy optimization and control;
- AI for EV charging scheduling;
- Other topics involving novel AI progress in energy systems.

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Deadline for manuscript submissions

closed (30 June 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 8.3

mdpi.com/si/220439

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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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