Special Issue

Advanced Wind & Solar Power Generation and Sector-Coupling Solutions for Renewable Energy Curtailment

Message from the Guest Editor

This Special Issue focuses on state-of-the-art wind and solar power generation technologies and sector-coupling solutions for use in renewable energy curtailment. The scope of this Special Issue will include (but will not be limited to) the following aspects:

- Advanced wind and solar energy technology and O&M;
- Sector-coupling solutions such as power-to-gas (P2G), power-to-heat (P2H), power-to-mobility (P2M), and other energy transformation techniques (P2X);
- Energy storage systems (ESS) and energy management systems (EMS);
- Zero-energy building technology;
- AI-based renewable energy systems;
- Thermal energy storage and thermal management;
- Li-ion batteries and solid-state batteries;
- Advanced renewable energy technology;
- Electric vehicles and sustainable transportation systems.

Guest Editor

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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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