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New Trends in Power Generation for Modern Renewable Energy

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Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the theory, algorithm, design, modelling, application, assessment, control, condition monitoring, optimal planning, development and implementation strategies and policies, challenges and way forward of power generation for modern renewable energy.

Topics of interest for publication include, but are not limited to:

- Endless renewable energy potential (solar, wind, oceanic, nuclear, geothermal, bioenergy, hydrogen energy, tritium energy);
- Advances and applications of renewable energy;
- Clean energy conversion technologies;
- Renewable energy and energy storage systems;
- Optimal consumption planning;
- Smart grids and microgrids;
- Clean energy in a circular economy;
- Application of renewable energy technologies;
- Machine learning models in forecasting of virtual power plant;
- Digital Twin technology applications for power generation of modern renewable energy;
- AI-enabled energy management systems.



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Guest Editors

Special Issue



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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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