

Special Issue

Research on Offshore Wind Turbines

Message from the Guest Editors

Offshore wind power, with its abundant resources, high efficiency, and low environmental impact, has grown rapidly at an average annual rate of 20%, reaching 83 GW globally. It now plays a key role in international new energy development. However, challenges such as typhoons, earthquakes, and complex seabed conditions require resilient engineering solutions. Advances include high-performance materials, improved modeling, design methods, and control techniques. Declining costs have further spurred research in optimization, condition monitoring, and fault tolerance. This Special Issue highlights recent advances in the theory, design, modeling, application, control, and optimization of onshore and offshore wind turbines. Topics include:

- Advanced modeling (aerodynamics, hydrodynamics, servo-dynamics, etc.);
- Load mitigation and power enhancement;
- Optimal design methods/algorithms;
- Advanced design frameworks;
- Condition monitoring techniques.

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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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