Special Issue

Advances in Marine Renewable Energy Utilization and Offshore Storage Technologies

Message from the Guest Editors

This Special Issue seeks to showcase cutting-edge research and developments in marine renewable energy technologies and their associated offshore storage systems. We invite contributions that address theoretical advancements, experimental validations, computational modeling, and real-world applications.

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

- **Marine energy utilization technologies**: Offshore wind energy, tidal energy, wave energy, ocean thermal energy, and salinity gradient energy.
- **Offshore energy storage solutions**: Offshore compressed air energy storage, hydrogen production/storage, battery technologies, and hybrid storage systems for grid stability.
- **System integration and grid connectivity**: Hybrid marine energy farms, floating platforms, subsea transmission technologies, and microgrid applications.
- **Economic and policy frameworks**: Cost-reduction strategies, levelized cost of energy optimization, and regulatory challenges for offshore deployment.
- **Emerging concepts**: Floating solar farms, blue energy synergies, and multi-purpose offshore platforms.

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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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