Special Issue

Advancements in Marine Renewable Energy and Hybridization Prospects

Message from the Guest Editor

This Special Issue tackles these challenges by focusing on offshore renewable energy structures, such as floating wind turbines, wave energy converters, and hybrid systems (which combine wind, wave, solar energy, or aquaculture facilities). Emphasis is placed on leveraging structure and infrastructure cost-sharing opportunities while exploiting the complementary nature of renewable energy resources to diversify production and enhance efficiency. There is a clear need to develop and enhance technical approaches and multidisciplinary techno-economic methods to advance the design, commercial viability, and deployment of MRE devices.

Keywords:
- marine energy
- structural analysis
- wave energy
- wind energy
- hybrid devices
- offshore energy
- marine engineering
- coastal engineering
- port engineering
- hydrodynamics

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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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