Special Issue

Marine Tidal and Wave Energy Converters: Technologies, Conversions, Grid Interface, Fault Detection, and Fault-Tolerant Control

Message from the Guest Editors

The worldwide potential of electric power generation from marine tidal currents and waves is enormous. The high load factor resulting from the fluid properties and the predictable resource characteristics make these energy resources attractive and advantageous for power generation and advantageous when compared to other renewable energies. While just a few small projects currently exist, the technology is advancing rapidly and has huge potential for generating bulk power. However, very little is known in the academic world about these technologies beyond the basics of the energy conversion principle. While research emphasis is more towards hydrodynamics and turbine design, very limited activities are witnessed in the power conversion interface, control, and power quality aspects, which are of vital importance for their successful integration to the grid or to standalone microgrid. Regarding this emerging and promising area of research, this Special Issue is aimed at promoting fruitful experience interchanges and discussions on how to improve marine tidal and wave energy converters' behavior.

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Deadline for manuscript submissions

closed (20 May 2019)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/21807

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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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