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

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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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Special Issue



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Message from the Editor-in-Chief

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