

Special Issue

Reliability of Marine Energy Converters

Message from the Guest Editor

The oceans cover 71% of the Earth's surface and are an enormous source of renewable energy from waves, tides, ocean currents, salinity, and temperature differences. To unlock the huge potential of marine energy, large investments to further develop these technologies are required but for that to happen several barriers need to be overcome, especially uncertainty. A major source of this uncertainty is associated with the reliability of marine energy converters (MECs). This Special Issue aims to contribute to this problem resolution by presenting the latest developments in relevant areas. In particular, we invite papers on

- The reliability assessment of MECs (e.g., tidal, wave and ocean thermal energy converters) and their components (e.g., structural, mechanical, electrical);
- Failure modes/mechanisms of MECs and their components and the corresponding data on their frequency and criticality;
- Reliability-based maintenance and inspection of MECs and their arrays;
- Probabilistic modelling of environmental loads acting on MECs, including the effects of load uncertainties on MECs' reliability.

Guest Editor

Prof. Dr. Dimitri V. Val

School of Energy, Geoscience, Infrastructure and Society, Institute of Sustainable Built Environment, Heriot-Watt University, Edinburgh EH14 4AS, UK

Deadline for manuscript submissions

closed (31 August 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/30985

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)