



## Permanent Magnet Machines for Wave Energy Converters

Guest Editor:

**Dr. Nick Baker**

Electrical and Electronic  
Engineering, School of  
Engineering, Newcastle  
University, Newcastle upon Tyne  
NE1 7RU, UK

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### Message from the Guest Editor

Dear Colleagues,

In wave energy, efficiency plays an important role in the lifetime cost of energy—more than the capital cost of the generator. Low-speed, high-torque, and fixed-space constraints naturally lead the electrical machine designer towards rare earth permanent magnet (PM) topologies. However, there are numerous configurations. Selection of a specific topology is guided by such performance requirements as rated torque, torque ripple, power factor, efficiency, overload capacity, and mechanical constraints. In many configurations, the electrical drive is also responsible for wave energy control. This unusual application has led to the design, development, and demonstration of a range of novel electrical machines and drives at various scales.

This Special Issue aims to pull together recent developments in the area of permanent magnet electrical machines designed for use as the power take-off in wave energy converters. The scope of this Special Issue includes novel machine topologies, novel configurations, magnetic gears, electric drives, and design and integration issues.





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## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

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*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
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