

## Special Issue

# Energy Conversion and Management: Hydraulic Machinery and Systems

### Message from the Guest Editors

The study of hydraulic machines is crucial to guaranteeing a better understanding of the hydraulic behaviour of the water systems and, therefore, their responses in terms of energy consumption and system dynamics. Research into the behaviour of hydraulic machines improves our knowledge of them and enhances their sustainability. Also, considering the transient behaviour of these devices is important to preventing damage to and reductions in efficiency. This Special Issue aims to contribute to incorporating study methodologies that address numerical, analytical or experimental methods that help the scientific community to improve the management of the systems and, therefore, to achieve improvements in the evaluations of the different goals of the sustainable development objectives (SDGs). Potential areas for research include:

- new trends in impellers and rotational speed in pump;
- analysis of behaviour of pumps using different motors or materials;
- analysis of PV systems integrating the pumped system;
- and analysis of systems in terms of unsteady flow.

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### Guest Editors

Dr. Modesto Pérez-Sánchez  
Prof. Dr. Oreste Fecarotta  
Dr. Caterina Capponi

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### Deadline for manuscript submissions

closed (15 October 2025)



## Energies

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## 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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