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Pumped-Storage Hydropower: Flexible Giants for the Energy Transition

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Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editors

Dear Colleagues,

Pumped-storage hydropower (PSH) is the flexible giant among the current energy storage technologies. This Special Issue aims to highlight recent achievements in the development of pumped-storage hydropower, especially with regards to its flexibility with several potential applications in ongoing energy transition.

Review papers for special solutions or experiences from long-term operation from existing pumped storage plants are welcome. Papers may include results from physical scale models, numerical investigations, field measurements and operational experience. Contributions focusing on environmental issues and sector coupling for multipurpose application of pumped storage are welcome. Additional requested topics include power grid balancing, digital twins, and predictive maintenance. We look forward to receiving your interesting contributions on the increasingly important topic of pumped storage hydropower.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/hydro_power



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Special Issue

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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