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Challenges of Flexible and Reliable Electricity Supply for Hydroelectric Generating Systems

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Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

Hydroelectric generating systems (HGSs) are essential for suppressing the power fluctuation of intermittent renewable energy resources. Hydropower has shown a timely synergy with other renewable energy sources due to its ability to cope with the supply peak load and variability by changing its operating conditions.

This Special Issue welcomes scientific contributions that will enhance the knowledge in research and applications in the field of reliability and flexibility of HGSs.

Specifically, submissions may address one of the following tasks:

How advanced modeling theories and methods have accelerated the construction of HGS components.

Research status and commercial applications and identifies their challenges when operating in transient or part load processes.

Identification risk regions from the perspectives of equipment aging, energy policy, and environment and natural resources and puts forward major research fields that can take action.



mdpi.com/si/85759

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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