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The Energy Water Nexus

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editor

Dear Colleagues,

The water–energy nexus covers a wide scope of research which includes topics such as hydroelectric generation through water reservoirs and run-off rivers, all the way to water cooling for power generation purposes, and at the end-use level, water treatment, transmission, distribution in different subsectors and its effect on load. In other words, the water used for electricity production and the electricity used for water treatment are both in the category of the water–energy nexus.

In this Special Issue, we will be looking for any study that analyzes pathways to a 100% renewable grid, and solutions that can enable a water utility distribution system reduce or shift energy load in response to different policies. Additionally, we are looking for studies analyzing smart grid optimization related to the water–energy nexus. We invite the research community to address innovative contributions considering different optimization models applied to achieve medium and long-term goals of a carbon-free energy system in real world applications.

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Message from the Editor-in-Chief

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