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Water Management for Sustainable Energy Production

Guest Editors:

Dr. Narayanan Kannan

United States Department of Agriculture-Agricultural Research Service, Pollinator Health in Southern Crop Ecosystems Research Unit (PHSCERU), Stoneville, MS, USA

Prof. Dr. Aavudai Anandhi

Biological Systems Engineering, College of Agriculture and Food Sciences, Florida Agriculture & Mechanical University, Tallahassee, FL, USA

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

Increasing energy productivity and total energy production are needed to cater to the ever-increasing population and demand from industrial activities. The majority of energy production requires water. Therefore, sustainable energy production involves the sustained availability of water resources. In the context of the water–energy nexus, this Special Issue aims to identify the opportunities and challenges and discuss water availability for energy production (including oil and gas, electricity) at local, regional, national, and global scales. In particular, the Special Issue will focus on:

1. Water use in energy production, including oil and gas production, and electricity production using various renewable and non-renewable fuel sources;
2. Energy production under shrinking water resources;
3. Availability of water to energy production under historical and projected climate change;
4. Emerging challenges/opportunities related to water resources coming from the electrification of the automobile industry;
5. Emerging challenges/opportunities related to oil and gas production because of competing water demands from other energy production methods (e.g., electricity production).



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Special Issue



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Dr. Jean-Luc PROBST

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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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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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