



Advances in Sustainable Generation of Hydroelectric Energy

Guest Editors:

Dr. José Ángel Sánchez-Fernández

Department of Hydraulic, Energy and Environmental Engineering, Universidad Politécnica de Madrid, Madrid, Spain, 28006 Madrid, Spain

Prof. Dr. Guillermo Martínez de Lucas

Department of Civil Engineering: Hydraulics, Energy and Environment, Universidad Politécnica de Madrid, 28040 Madrid, Spain

Prof. Dr. José Ignacio Sarasua Moreno

Department of Hidraulic, Energy and Environmental Engineering, Universidad Politécnica de Madrid, E-28040 Madrid, Spain

Deadline for manuscript submissions:

closed (30 April 2023)

Message from the Guest Editors

Dear Colleagues,

Hydroelectric generation plays an important role in many power systems, mainly due to its capability to provide medium-term energy storage (hours or days). In this way, it can contribute to integrate non-manageable energy sources in power systems. In addition, hydroelectricity is, in itself, a renewable energy source. However, this does not mean that it is environmentally benign.

Climate change may continue being the bigger long-term concern; however, in the medium and short term, oil and gas shortage is the most pressing concern. Thus, any advance in any technology that can contribute to reduce world dependency on fossil fuels is extremely valuable. These advances can provide higher efficiency, lower costs, and use less materials or more robust devices. Furthermore, any submissions on the reduction in environmental or society impacts are also welcome.

As it is well known, advances have to be disseminated for being useful. Five years ago, this journal published an Special Issue on “Hydropower and Sustainability”. The purpose of this Issue is to reexamine this topic and its contributions to advance the sustainable generation of hydroelectric energy.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)