



## Hydropower and Sustainability

Guest Editors:

**Prof. Dr. Knut Alfredsen**

Department of Hydraulic and  
Environmental Engineering,  
Norwegian University of Science  
and Technology,  
S.P.Andersensvei 5, 7491  
Trondheim, Norway

**Prof. Dr. Tor Haakon Bakken**

SINTEF Energy Research

Deadline for manuscript  
submissions:

**closed (30 November 2017)**

### Message from the Guest Editors

Hydropower is renewable technology with generally low green-house gas emissions. Hydropower is far larger than all other renewable technologies together and contributes with more than 72% (by 2014) of all renewable electricity production. Development of hydropower creates both positive and negative social and environmental impacts. Hydropower projects can generate big benefits, but numerous projects have also ruined rivers and caused displacement of people. Similar to all other infrastructure projects, hydropower developments and operations should be made in a sustainable manner.

Sustainable development has at least three dimensions—environmental protection, and social and economic development. In this Special Issue, research papers should focus on the role of hydropower in the provision of clean energy and in water resources management, while addressing all three dimensions of sustainability. This asks for an inter-disciplinary perspective in all articles.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## 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. *Sustainability* publishes original research articles, review 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, AGRIS, 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](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)