



water



an Open Access Journal by MDPI

Modelling and Management of the Energy Impact of Urban Water

Guest Editors:

Prof. Dr. Steven Kenway

Faculty of Engineering,
Architecture and Information
Technology, Advanced Water
Management Centre, The
University of Queensland,
Brisbane, Australia

Dr. Ka Leung Lam

Department of Water
Management, Delft University of
Technology, 2628 CN Delft, The
Netherlands

Dr. Jennifer Stokes-Draut

Department of Civil and
Environmental Engineering,
University of California, Berkeley,
California, USA

Deadline for manuscript
submissions:

closed (30 June 2020)

Message from the Guest Editors

Dear Colleagues,

Water has a profound influence on energy consumption in cities, accounting for some 10% of primary energy use when the effect of supply, use and disposal are considered. Minimising water-related energy is a multi-dimensional and generational challenge. It will necessitate the innovative planning, design and management of systems, cities, and buildings. It will require new innovation in engineering and technology as well as social, architectural, and economic contributions. This [Special Issue](#) aims to bring together recent research on the energy influence of water including water provision, use and disposal. It particularly encourages quantification of the energy (and greenhouse gas)-intensity of urban water, frameworks for understanding water-related energy, and understanding water efficiency in terms of the broader functions water delivers.

Keywords: Water-related energy; Water–energy nexus; Urban water; Energy use; Energy intensity; Energy efficiency; Energy management; Greenhouse gas emissions; Life cycle assessment; Mathematical modelling; Cost–benefit analysis; Urban water–energy systems analysis



mdpi.com/si/24588

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/X@Water_MDPI)