

Special Issue

Water–Energy Nexus in Urban Infrastructure Systems

Message from the Guest Editors

Most of the existing literature covers the topic in the context of water supply systems, while its application in wastewater and stormwater systems has been relatively less addressed. Energy optimization in large urban infrastructure systems also needs further attention, as most of the past studies evaluated smaller systems or hypothetical scenarios. Most of the related work was conducted in developed countries operating continuous water supply systems, while the evaluation of intermittent supply operation in developing countries and arid regions might come up with new and interesting findings. Although greywater recycling with low-cost treatment at the point of generation can conserve water resources, it can impact the wastewater-to-energy option. Emerging concepts of sponge cities can certainly recharge groundwater, but the reduced runoff could impact hydropower generation. There are several other questions that need to be answered. This Special issue is an effort towards addressing these questions and bridging research gaps.

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