



an Open Access Journal by MDPI

Energy Efficiency in Water Distribution and Supply Systems

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Deadline for manuscript submissions:

closed (29 February 2020)

Message from the Guest Editors

Dear Colleagues,

Water distribution and supply systems are generally characterized by low efficiency and high energy demand, with high levels of leakage, a strong carbon footprint and expensive management costs. New management policies are thus required, involving optimal strategies, smart devices and innovative control techniques to reduce water losses, increase the efficiency of the water systems, reduce the energy demand and the carbon footprint.

This Special Issue aims to collect new studies in the field, providing the scientific community with effective tools to improve the efficiency of the water industry. The authors are invited to present novel papers on this subject, including:

- New studies on specific devices (i.e. pump as turbines—PATs, or micro turbines) to save energy and reduce leakage in water systems
- New design solutions for plants or new plant operations for the smart control of the distribution and supply networks
- New strategies to optimize the management of the whole network, i.e. the optimal location of smart devices, smart control techniques, new methods of analysis of the efficiency of the system



mdpi.com/si/19076