Special Issue

Wastewater Treatment Related to Energy

Message from the Guest Editors

In recent years, achieving energy neutrality while ensuring high nutrient removal has become the goal of sustainable Wastewater Treatment Plants (WWTPs). In the WWTPs, energy costs account for around 40% of wastewater treatment operational costs; therefore, the search for ways to improve their efficiency while improving their energy balance is crucial. At WWTPs, energy consumption is related to pollution load, which influences treatment methods and technologies. WWTPs are looking for ways to improve 1) the efficiency of removing pollution, 2) the amount of purchased energy, 3) the amount of recovered energy, and 4) the use of renewable energy sources in order to meet the stricter discharge restrictions that the law requires. This Special Issue aims to present and disseminate the most recent advances related to the theory, modelling, application, and control of all wastewater treatment processes which improve the energy balance of WWTPs. Original submissions focusing on fundamental and/or practical issues related to all subfields of wastewater treatment are welcome.

- wastewater treatment plant
- energy neutrality
- energy efficiency
- bioenergy

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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