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Waste Water Treatment and Energy Recovery: Opportunities and Challenges

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Message from the Guest Editors

Energy efficiency in the water and wastewater industry has become increasingly important in recent years, as wastewater treatment plants are responsible for nearly 35% of the energy consumption of all municipal facilities. The optimal operation of wastewater treatment plants requires the provision of electricity, the costs generated translate into the price of collecting and treating wastewater. Therefore, it is justified to optimize the wastewater treatment processes technically and economically by reducing the electricity consumption rates. It is necessary—apart from the rationalization of consumption—to look for other methods of obtaining energy. Wastewater and sewage sludge are good materials for anaerobic digestion processes, heat recovery and hydropower.

All researchers working in the field are invited to contribute original research papers or reviews to this Special Issue of *Energies*, the scope of this Issue includes disintegration, anaerobic digestion, biogas, biohydrogen, bioenergy recovery from wastewater produced by hydrothermal processing biomass, circular economy, and energy recovery from wastewater and sewage sludge.



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Special Issue



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Message from the Editor-in-Chief

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