

Special Issue

Advances in Energy from Biowaste and Biogas Plants

Message from the Guest Editor

Biogas is one of the more rapidly growing sources of renewable energy. Organic matter anaerobic digestion combines waste treatment and nutrient recycling with the production of high-energy biogas, which can replace fossil-based natural gas. Biogas production plays an important role in sustainable waste management in both municipal and agricultural sectors, contributing to the reduction in methane emissions from manure and the production of biomethane. A wide range of biomass sources are used as raw materials for biogas production, including agricultural waste, sewage sludge, and biowaste from households and industry. From the perspective of energy efficiency, environmental impact, and compliance with the principles of a circular economy, biogas cogeneration at biogas plants is more beneficial than waste disposal through landfilling. This Special Issue aims to present the most recent advancements related to studies concerning biowaste, biofuels, waste conversion, possibilities of increasing energy production from biogas, and use of energy from biogas. In addition, problems associated within the biogas production will be highlighted.

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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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