

Biogas from a full scale digester operated in psychrophilic conditions and fed only with fruit and vegetable waste

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Biogas from a full scale digester operated in psychrophilic conditions and fed only with fruit and vegetable waste

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Abstract

The aim of this work was to evaluate the feasibility of treating fruit and vegetable waste from a municipal market in a full-scale anaerobic digester with minimum implementation and operational costs, i.e. without pre-treatment, clean water consumption, active heating or mixing. For this purpose, a 13.9 m³ digester that forces the submersion of solids, gains heat through solar radiation and recirculates effluent was monitored during one year of real operational and weather conditions in Bolivia. The digester was initially loaded with cow rumen (inoculum source), and after eight weeks