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Production of methane gas from organic fraction municipal solid waste (OFMSW)

via anaerobic process: Application methodology for the Malaysian condition

**Abstract** 

Solid waste management in Malaysia is confronted with many problems, including low collection

coverage, irregular collection services, inadequate equipment used for waste collection, crude

open dumping and burning without air and water pollution control systems, inadequate legal

provisions and resource constraints. These problems have various effects on the development

of the solid waste management system in Malaysia. Anaerobic digestion has been suggested as

an alternative method for removing high concentrations of organic waste. In this study, two

types of anaerobic digesters which are Simulated Landfi II Bioreactor (SLBR) and Anaerobic

Solid-Liquid (ASL) reactor were proposed. The reactors were operated at a temperature 60°C,

analysed for biogas production and volatile fatty acid.

Keywords

Anaerobic digestion; Malaysia; Methane gas; Organic fraction municipal solid waste