

Biogasification performance of anaerobic co-digestion of kitchen residues and cattle manure.

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Author(s) : [Li RongPing](#) ; [Liu YanPing](#) ; [Li XiuJin](#)

Author Affiliation : Department of Environmental Science and Technology, Beijing Chemical Technology, Beijing 100029, China.

Journal article : [Kezaisheng Nengyuan / Renewable Energy Resources](#) 2008 Vol.2 No.1 p.68 ref.13

Abstract : The anaerobic batch fermentation of kitchen residues, cattle manure and their mixtures were studied at the mesophilic temperature of 35°C. Results show

digestion of kitchen residues obtained 362.2 ml/g of methane yield and the biodegradation rate reached a value of 60.2%, which were significantly high with those of the digestion of cattle manure, which are 144.3 ml/g and 25.4 respectively. The co-digestion of the two wastes had better performance than digestion due to well-balanced nutrients, improved C:N ratio and stronger biodegradation. When the ratio of kitchen waste to cattle manure was 1:1, the methane yield and biodegradation rate were increased by 17.3 and 7.8%, respectively, and the retention time was shorter by 9 days, which were contributed by the synergic effect of co-digestion. This study indicated that co-digestion was an effective way to enhance the digestion efficiency.

ISSN : [1671-5292](#)

URL : <http://ncny.chinajournal.net.cn>

Record Number : 20083121902

Publisher : [Renewable Energy Resources Press](#)

Location of publication : [Yingkou](#)

Country of publication : [China](#)

Language of text : [Chinese](#)

Language of summary : [English](#)

Indexing terms for this abstract:

Descriptor(s) : anaerobic digestion, biodegradation, bioenergy, biofuels, biogas, nitrogen ratio, cattle manure, fermentation, kitchen waste, methane, temperature

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58). Vileisis starts with the diary of Martha Ballard, a midwife who lived, as many Americans did in the 1790s, on a farm near a mill, with her own dairy, gardens, cattle, podbur is a consumer Zenit.