Green Technology: Transformation of Domestic Bio-Waste into Electricity Energy to Mitigate the Global Energy and Environmental Vulnerability

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Abstract

**Background** Green Technology, a sustainable mechanism is being proposed to fulfill the complete need of energy for a building that can be created by the building itself by the transformation process of domestic biowaste into electricity energy *in site*.

**Results** The results suggested that the transformation of domestic biowaste including human feces to execute into converting process into an anaerobic tank bioreactor (BR) in the cellar which can form biogas (CH$_4$) by *methanogenesis* that can be converted into electricity energy to power the entire building. Besides, the discharged waste water in another detention tank can be conducted a complete treatment process of primary, secondary, tertiary and UV application to utilize it for gardening.

**Conclusions** Implementation of this technology indeed shall be an inventive field of science where a building can form electricity by itself to complete its total energy need without any connection with the utility authorities which is benevolent to environment.

**Full-text**

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