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Review

A Techno-economic Evaluation of Anaerobic Biogas Producing Systems in Developing Countries

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1 **A Techno-economic Evaluation of Anaerobic Biogas Producing Systems in**  
2 **Developing Countries**

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13  
14 **Abstract:**

15 Biogas production has been the focus of many individuals in the developing world; there  
16 have been several investigations that focus on improving the production process and  
17 product quality. In the developing world the lack of advanced technology and capital has  
18 hindered the development of energy production. Renewable energy has the potential to  
19 improve the standard of living for most of the 196 countries which are classified as  
20 developing economies. One of the easiest renewable energy compounds that can be  
21 produced is biogas (bio-methane). Biogas can be produced from almost any source of  
22 biomass through the anaerobic respiration of micro-organisms. Low budget energy  
23 systems are reviewed in this article along with various feedstock sources. Adapted gas  
24 purification and storage systems are also reviewed, along with the possible economic,  
25 social, health and environmental benefits of its implementation.

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28 **Keywords:** *Biomass; Renewable energy; Biogas; Developing economies; Anaerobic*  
29 *digestion*

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34 **1.0 Introduction**

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