# BIOGAS: PRODUCTION OF METHANE GAS AND MANURE FROM DAIRY CATTLE / PALM OIL MILL WASTE AS A SOURCE OF FUEL AND FERTILIZER FOR AFRICAN FARMERS

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In Ghana and Africa as whole, most communities use wood as a source of fuel for domestic and commercial purposes with no alternative source of fuel. From report about 80% of African use wood as a source of fuel. This has led to the degradation of the forest, hence, resulting in significant dehydration water bodies and unpredictable rainfall pattern. Effective farming has thus been hindered.

Timber companies and local chain saw operators have been banned from revisiting the over exploitation of the forest. Reaforestation programs have embarked upon and are somehow yielding positive fruit.

To prevent or mitigate the negative environmental impact, an alternative fuel and fertiliser usage is required. This paper uses the research findings from a Project embarked upon by Rural Environmental Care Association, RECA, that is, The Generation of Methane Gas (for fuel) from Anaerobic Digestion of Agriculture waste (Animal waste and waste from Palm oil process plant). The digested effluent from the waste is used as manure.

The predominance or the availability of raw material will make this project a sure alternative source of fuel and fertiliser in Africa.