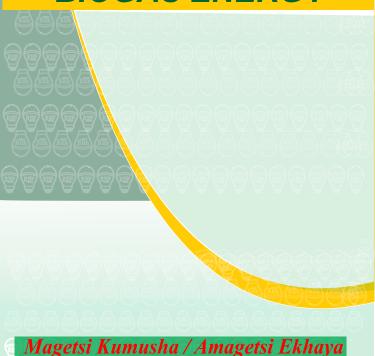
RURAL ELECTRIFICATION FUND



Going

REEN With

BIOGAS ENERGY





Magetsi Kumusha / Amagetsi Ekhaya

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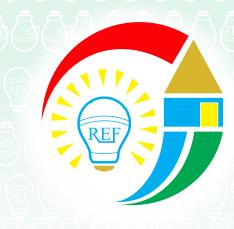
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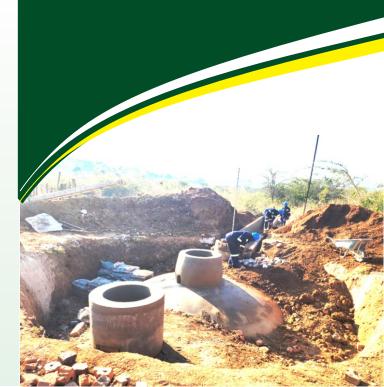
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BIOGAS ENERGY



General Information

Biogas is a combustible gas produced during the decomposition of organic material by bacteria in anaerobic (absence of air) conditions. Biogas is typically composed of 60% methane and 40% of carbon-dioxide (CO₂) and some traces of (SO₂) sulphur dioxide and moisture. It is easily combustible and odorless. It is clean and renewable energy that can be used for cooking, lighting and in large quantities for electricity generation.

Raw materials for biogas production

- Animal dung
- · Poultry droppings
- Pig Waste
- Plant waste (husk,grass, weeds, hyacinth etc)
- Sewage (human waste)
- Industrial organic waste (from food and processing industry)
- Industrial organic wastes (vegetables peels, wastes food materials)



Uses of Biogas

- Cooking and heating through use of stoves and burners.
- · Lighting using biogas lamps with mantles
- Generation of electricity (running a generator which produces electricity).
- Production of rich organic fertilizer.





Benefits of Biogas Technology

Energy benefits

- Use of biogas for cooking and heating results in saving of electricity which can be channelled into the productive sector of the economy.
- Biogas technology can be used in remote areas without access to electricity.
- Biogas burns rapidly, is relatively safe for use in households and has a convenient ignition temperature.

Environmental and social benefits

- Reduction in deforestation when biogas is used as an alternative to firewood.
- Reduction in the use of fossil fuels which results in less carbon dioxide emissions and reduction of global warming.
- Biogas burns without smoke, soot, and odour and results in clean kitchen environment and reduction in smoke induced respiratory diseases.
- Waste management.



Economic benefits

- Cheaper source of cooking energy as compared to electricity, paraffin and LPG.
- Digested slurry can be used as a nutrient rich organic fertilizer.
- Employment creation through building and maintenance of biogas digesters.