

EffuTreatTM
Bioculture

MTM
M.B.PL

MOTHEREARTH
BIOTECH PVT. LTD.

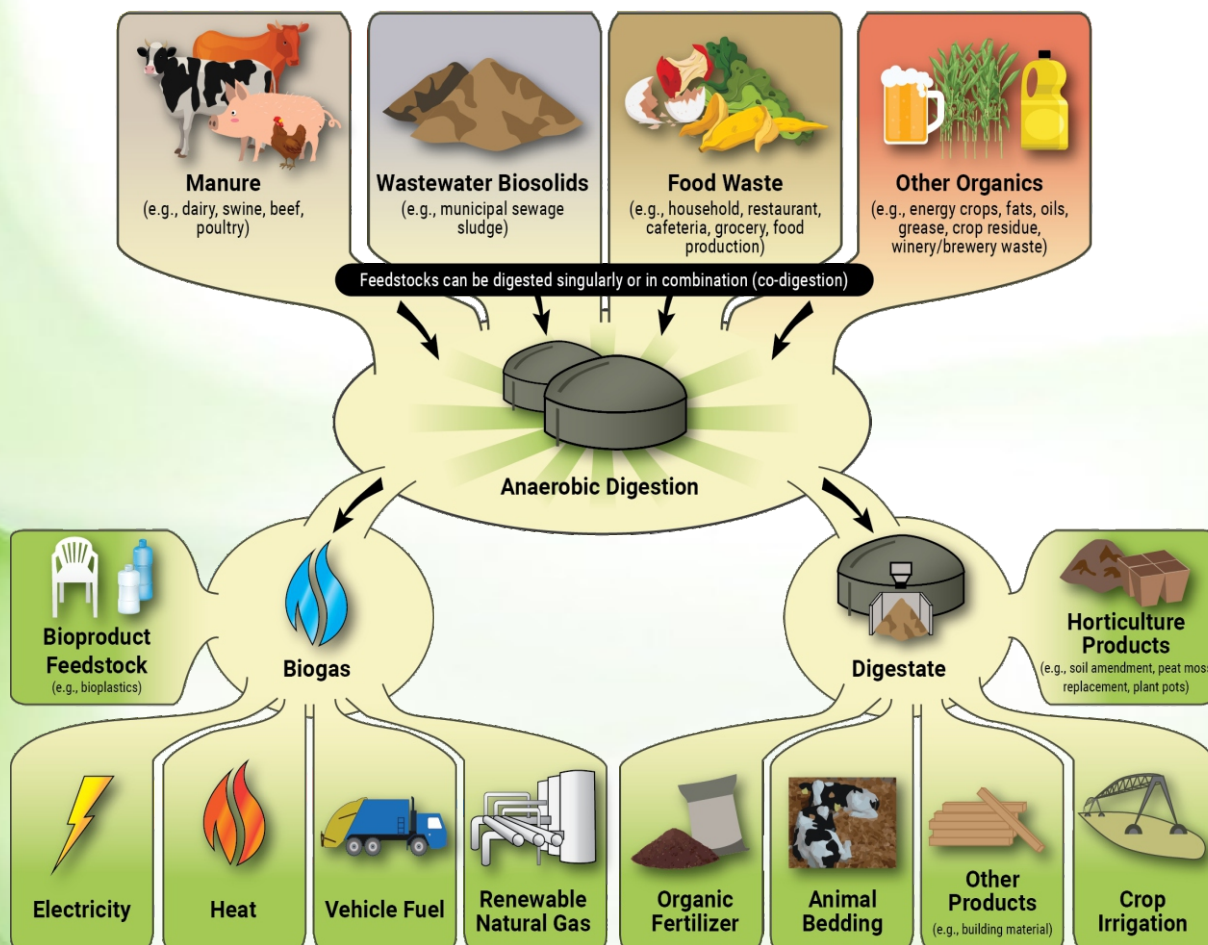
The background of the entire page is a vibrant green color. In the lower half, there is a dynamic splash of water with numerous bubbles and droplets. A small, realistic globe of the Earth is positioned in the upper right quadrant of this splash area. The word "BIOGAS" is written in large, bold, white letters with a green outline, centered at the bottom of the image.

BIOGAS

What is Biogas?

Biogas, a renewable fuel, is generated through the anaerobic digestion of organic feedstocks such as municipal waste, farm waste, food waste, and energy crops. The composition of raw biogas typically includes methane (50–75%), carbon dioxide (25–50%), and smaller amounts of nitrogen (2–8%). Additionally, biogas may contain trace levels of hydrogen sulfide, ammonia, hydrogen, and various volatile organic compounds, which vary depending on the feedstock used. Studies on life cycle assessment have demonstrated that the implementation of biogas technologies can effectively reduce greenhouse gas (GHG) emissions, thereby mitigating the climate impact of energy consumption.

Furthermore, the production and utilization of biogas contribute to the diversification of energy systems and promote sustainable waste management practices.



EffuTreat BIOGAS

EffuTreat BIOGAS aids in the generation of methane, a high-energy fuel, by facilitating the microbial breakdown of organic matter in the absence of oxygen. It is composed of a mixture of natural and harmless bacteria with the ability to break down various pollutants in anaerobic environments. The bacteria present in EffuTreat BIOGAS demonstrate remarkable resilience. They are stored in a dormant state, guaranteeing a reactivation rate of 95% to 98% over a one-year period. Every strain is meticulously sourced from the environment and grown in our laboratory.

BENEFITS of using EffuTreat Biogas

- EffuTreat BIOGAS aids in the generation of methane.
- EffuTreat BIOGAS serves as a catalyst, facilitating the rapid digestion of waste and effectively eliminating scum.
- Accelerate the growth of highly concentrated acclimatized anaerobes to achieve rapid stabilization.
- This product effectively minimizes the odor emitted by plant.
- Demonstrates effectiveness across diverse environmental conditions.

AREAS OF APPLICATION

- Anaerobic Digester
- Biogas Plants in industries
- Biogas Plants at household facility.



PERFORMANCE PARAMETERS

- pH 6.5-7.5
- Temperature 5°C - 55°C
- Reactivation Rate 99% after addition to water
- Concentration Highly Concentrated
- Shelf Life 1 Years



PHYSICAL STATES AND THEIR FEATURES

- | | | |
|--------------------|---|------------------------------|
| • Physical States | LIQUID | POWDER |
| • Appearance | Tortilla brown | Swiss coffe brown |
| • Odor | Smell of media & micro organisms is present | Odorless |
| • Moisture Content | 100% | 15% - 17% |
| • Mesh Size | N/A | 0.4 mm – 0.8 mm |
| • Packaging | 50 ltr drum, 1 ltr bottle | 1 kg Aluminum Standing Pouch |

APPLICATION MATRIX

- Merge 1 kilogram of EffuTreat BIOGAS with 1 kilogram of liquid jaggery, and subsequently add this combination to 100 liters of feed water. (2Kg in 200 Litres & so on...)

DOSAGE SCHEDULE

- The quantity needed daily is determined by the volume of wastewater and the organic load.
- The proportion of water required in relation to the EffuTreat BIOGAS solution is contingent upon the characteristics of the incoming wastewater.