

Water & Waste Solutions



BIOENERGEN

Environment Friendly
Bio-degradable waste-to-energy plant

What is Bioenergen

Bioenergen is a plant used for processing of biodegradable waste in an environment friendly manner to generate bio-gas. It is seen as the most favored option to deal with organic biodegradable solid waste, since it enables the generation of a nutrient rich fertilizer and produces fuel in form of bio-gas. It offers an excellent alternative for decentralized processing of solid biodegradable waste and avoids the contamination of land-fill sites. Thermax presents a cleaner technology promoting Clean Development Mechanism. The units are standardized and are compact in size.

Standard capacities

250, 500, 750 & 1000 kg/day kitchen waste processing # Customised Capacities on request

Advantages of Bioenergen

- High biogas yield
- High purity methane content
- Uninterrupted processing without frequent addition of bioinoculant
- Waste to Energy generation in least processing time
- Residue can be used as manure
- Saves the transportation cost of carrying waste to disposal site
- Saves equivalent amount of fossil fuel
- Eliminates dumping yard spaces
- Indirect health benefits – hygienic environment is maintained
- Eligible for carbon credit

Utilization of Bio-gas & Manure



Cooking Purpose :
Industrial canteens, restaurants, food courts etc.



Process Heating :
Boilers, hot water generators etc.



Power Generation :
Through gas gensets.

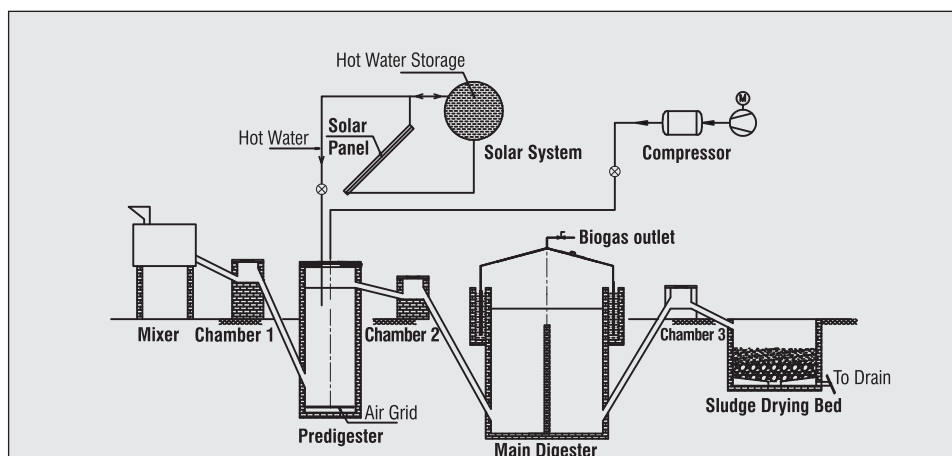


Manure :
Soil conditioning

Waste handled by Bioenergen plant

- Stale and unused portion of cooked food from households, hotels and industrial canteens
- Vegetable refuses either from vegetable markets or kitchens, Lawn cuttings, dry leaves, algal or vegetation residue recovered from water bodies like lakes, rivers or wells.
- Shredded paper
- Animal excreta

Schematic representation of Bioenergen plant



THERMAX

Sustainable Solutions in
Energy & Environment

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Thermax Business Portfolio

- Heating
- Cooling
- Power Generation
- Air Pollution Control
- Chemicals
- Water and Waste Water Solutions
- Solar
- Specialised Services