

## 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.

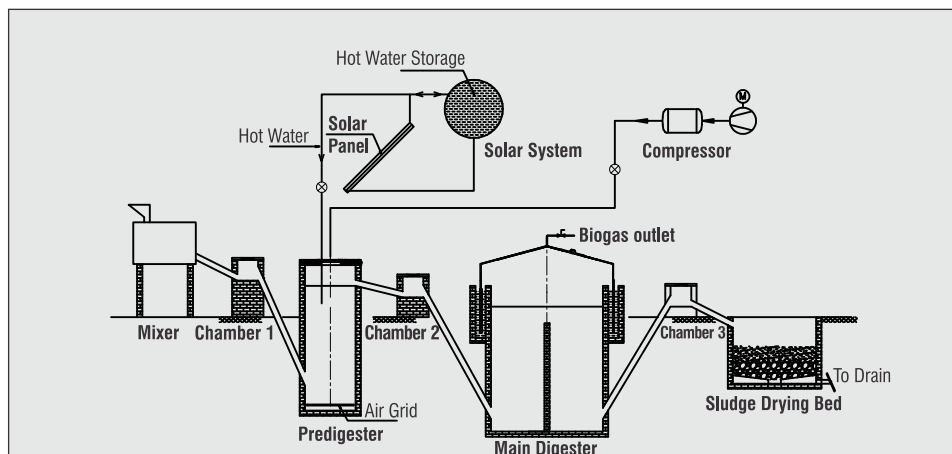


**Manure :**  
Soil conditioning

## 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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98-99, General Block, MIDC,  
Bhosari, Pune - 411 026  
Tel. : 020 25541010  
Fax : 020 25542235  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### AHMEDABAD

Tel. : 079 26575408 / 26577073  
Fax : 079 26577270  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### BENGALURU

Tel. : 080 22371721 - 35  
Fax : 080 22371726  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### CHENNAI

Tel. : 044 24303400  
Fax : 04424353841  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### HYDERABAD

Tel. : 040 23253700  
Fax : 040 23253799  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### KOLKATA

Tel. : 033 66070800 / 900  
Fax : 033 66070999  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### MUMBAI

Tel. : 022 67542222 / 22852058  
Fax : 022 22040859  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

### NEW DELHI

Tel. : 011 46087200  
Fax : 011 27355211  
E-mail : [www@thermaxindia.com](mailto:www@thermaxindia.com)

[www.thermaxindia.com](http://www.thermaxindia.com)

### International offices at

Indonesia, Russia, Kazakstan, Saudi Arabia,  
Malaysia, Bangladesh, Belgium, Sri Lanka,  
China, Philippines, Thailand, UAE, Kenya,  
Nigeria, Brazil, UK, USA

## Thermax Business Portfolio

Water & Waste Solutions

Chemicals

Air Pollution Control

Boilers & Heaters

Absorption Cooling

Captive Power