



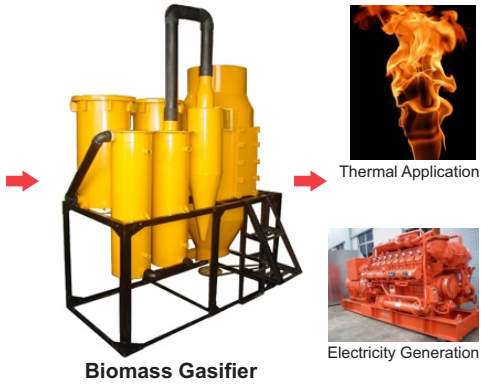
Fire wood



Coconut waste



Biomass Briquettes



Biomass Gasifier

### Application:

**Thermal:** Cooking, Aluminum Melting, Steel rolling, etc. (LPG/Diesel/Furnace oil replacement)

**Electricity:** 100% Producer gas gensets for power Generation.

Uninterrupted Power Generation from Clean Producer Gas.

### Plant Capacities:

**Thermal Plant Capacity :** 5kg/hr to 2MT/hr Biomass Loading.

**Power Plant Capacity:** 5kw to 2MW Generation

### ENERGY CROP PLANTATION

We Supply Saplings for Energy Crop Plantation and Assign Buy Back Agreement for Biomass Procurement

**Energy Crops:** Melia, Bamboo and Prosopis

**Plantation Capacity :** 1 Acre to 250 Acres

**Applications:** Biomass Power Plants, Charcoal Production, Industrial Thermal Application, etc.



## Our Products

### BIOGAS

Domestic Biogas Plants (Ready made models)  
Industrial & Agricultural Biogas Plants  
Domestic/Commercial - Food Waste Crusher  
Biogas Boosters/Pumps

### BIOGAS BOTTLING

Biogas enrichment/Purification System  
High Pressure Methane Compressors  
Low Pressure Methane Compressors

### BIOMASS GASIFIER

Biomass Gasifier - Captive Consumption of Electricity  
Biomass Gasifier -Grid connected Electricity  
Domestic/Industrial - Biomass Gasifier  
For Thermal Application {LPG/FO/Diesel--replacement}

### ENGINES

Biogas engines. Producer gas engines  
Natural gas engines  
Diesel to Gas engine conversion kits

### ENERGY CROP PLANTATION

Melia dubia. Bamboo. Prosopis

*For enquiries, contact:*



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# Let Your Wastes Fuel Your Business



## We are

B-Sustain Energy projects Pvt Ltd. is engaged in quality manufacturing of Biogas plants, Biogas bottling Plants and Biomass gasifiers for domestic and industrial purposes.

We develop bioenergy projects and technologies that contribute optimally towards a sustainable society. Next to the development and use of modern, reliable and efficient bioenergy technologies, we pay attention to the sustainable origin of the biomass feedstock. Only sustainable biomass, produced with the best possible carbon and fossil energy savings are accepted.

## Why Biogas

Global warming, the much discussed problem among nations today can be checked at great extent by the use of Biogas. Biogas can potentially help in reducing global climate change.

Normally, manure that is left to decompose releases Nitrous Dioxide and Methane. Nitrous dioxide (NO<sub>2</sub>) warms the atmosphere 310 times more than Carbon dioxide and Methane 21 times. By converting cow manure into methane biogas instead of leaving it to decompose, we would be able to reduce ninety-nine million metric tons or four percent of global warming gases.



## We offer

We are exclusively involved in manufacturing and supply of Renewable energy products like Biogas Plants, Biogas bottling units and Biomass Gasifiers for thermal applications and electricity generation.

### BIOGAS PLANT

#### Raw material:

Food Waste, Vegetable waste, Fruit waste, Animal droppings including Cow dung, Poultry litter, Goat excreta, Pig waste, Night Soil, etc., Water hyacinth and Chicken/Meat/Fish processing waste.

**Industrial Organic Wastes:** Molasses, Jaggery scum, spent wash, Sago/Starch effluent, etc.



**Process:** Biomethanation process is a promising eco-friendly solution for treatment of biodegradable solid/liquid waste. In this process the organic matter is converted into biogas that is a very useful form of energy.

#### Application

**Thermal:** Cooking, Boiler application, Steel rolling, Aluminum melting (LPG/Furnace oil/Diesel replacement)

**Electricity:** 100% biogas engines and Methane based (SoFc) Fuel Cell for power generation

**Biogas Bottling:** Biogas enrichment/Purification, Low Pressure and High Pressure bottling of Methane Gas for automobile application (LPG/CNG/FO/Diesel replacement)

#### Plant Capacities

Thermal Plant capacity: 1m<sup>3</sup> to 25,000m<sup>3</sup> biogas/day  
Power Plant Capacity: 1kW to 2MW or Higher Capacity  
Bottling Plant Capacity: 10m<sup>3</sup>/hr to 1000m<sup>3</sup>/hr Raw Biogas

Enriched Methane Gas purity of 97% is achieved in bottling.

100% of LPG Fuel Cost is Saved.

## BIOMASS GASIFIERS

#### Raw Material:

**Biomass Energy plants:** Casuarina, Eucalyptus, Acacia, Prosopis, Melia, Bamboo, etc.

**Industrial Biomass wastes;** Rice husk, Saw dust, Wooden chips, Coconut shell/fronds/husk, Corn cobs, etc.

**Other Biomass:** Briquettes and Pellets

#### Process:

Biomass Gasification, a century old technology, is viewed today as an alternative to conventional fuel. In this Process Wood, Charcoal and other Biomass materials are gasified to so called "producer gas" for Thermal power or Electricity generation.