



**Jain**  
**Bio Energy**



## Biogas Power Plant on Turnkey Basis

### Who can benefit from biogas plant?

#### Agricultural companies

- ◆ Pig farms
- ◆ Cattle farms
- ◆ Poultry farms
- ◆ Crop production companies

#### Food industry companies

- ◆ Distillery and bioethanol plants
- ◆ Brewery plants
- ◆ Sugar mill
- ◆ Meat processing factories
- ◆ Starch plants
- ◆ Yeast plants
- ◆ Milk plants
- ◆ Bakery plants
- ◆ Chips and potato processing plants
- ◆ Juice and tinned food producers
- ◆ Winery
- ◆ Fish processing plants

#### Biodiesel producers.

#### Waste recycling enterprises.

#### Municipal waste water treatment plants.



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## Biogas Power Plant on Turnkey Basis

In case you don't have biological waste, you can grow energy crops for biogas production like corn, rosinweed, sweet sorghum, sugarbeet or algae. Also biogas plant can be used as separate business on waste recycling and energy production.

### Biogas

#### Anaerobic digestion

The process of organic matter decomposition in absence of oxygen.

#### Composition

60-70% of methane (CH<sub>4</sub>) and 30-40% of carbon dioxide (CO<sub>2</sub>) content. It is produced during anaerobic decomposition of organic matter and is due to bacteria metabolism.

By property, biogas is very similar to lean natural gas. Synonyms for biogas are sewage gas, marsh gas, gobergas, landfill gas etc.

### It can be used

- ◆ As natural gas after purification
- ◆ For combustion and production of heat and light
- ◆ Electricity generation using biogas engine / generator
- ◆ As vehicle fuel after purification
- ◆ In fuel cells

### Advantages

- ◆ Eco-friendly
- ◆ Renewable in nature
- ◆ Zero CO<sub>2</sub> emission
- ◆ Clean combustible fuel
- ◆ Can be used for domestic and commercial applications

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