



Overview of Biogas Plant

S.P. Ecofuel is one of India's largest and fastest growing biogas companies with an experience that spans for 14 years.

The company has installed numerous domestic and industrial biogas plants across the country. S.P. Ecofuel has also developed its own biogas technology with the help of its international tie-ups with experts in Germany, Switzerland and our R&D Center in USA. This technology is the cheapest and most optimal solution for maximum returns in Indian conditions.

S.P. Ecofuel's biogas digester design has been approved by MNRE, Govt of India and Gujarat Govt. In fact, SPRE won a contract worth \$1 million to install 15 biogas plants using S.P. Ecofuel's biogas technology in Gujarat.

Our strengths

Expertise in Biogas

Experienced Personnel

Proven Technology

Strong Network

R&D Center

Result-oriented Track-record

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**EMPLOYMENT
GENERATION SCHEME**

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Unit 1: Biogas Generation

Specifications:

600 cubic meter biogas plant with Solid-Liquid Separator

Raw Materials:

Upto 12 MT of cow dung daily Farm waste, food waste, industrial waste can also be mixed.

How it works?

Different types of bio-waste is collected and placed in Feed Preparation Unit. The waste is then transferred to Primary Digester and Secondary Digester where the Biogas is produced by anaerobic digestion with anaerobic bacteria. It is primarily methane (CH₄) and carbon dioxide (CO₂) and small amounts of hydrogen sulphide (H₂S), moisture and siloxanes. The residue is utilized as high quality fertilizer.

Unit 2: Biogas Purification Plant

Specifications:

25 cubic meter of waste treatment per hour
Raw biogas purification unit
20 cubic meter per hour @ 250 bar CNG Compressor

Raw Materials:

Raw Biogas with CH₄, CO₂, H₂S & Nh₄

How it works?

VPSA Technology
Chemical Absorbent separates all gases and upto 95% CH₄ is produced after cleaning is called natural gas. Natural gas compressor compresses gas and makes it Bio-CNG.

Unit 3: Biogas Bottling Plant

Specifications:

75 litres x 20 cylinders per rack

How it works?

All compressed Bio-CNG are stored into racks of 20 cylinders and it can carry 200-300 kg of Bio-CNG that can be used for various applications.