



Spoken Tutorial & Rural ICT IIT Bombay promotes

Biogas

Use of the slurry

- Wet slurry can be directly used as a manure in the fields.
- It can be dried and stored for future use.
- Dried slurry can be sold to generate livelihood.

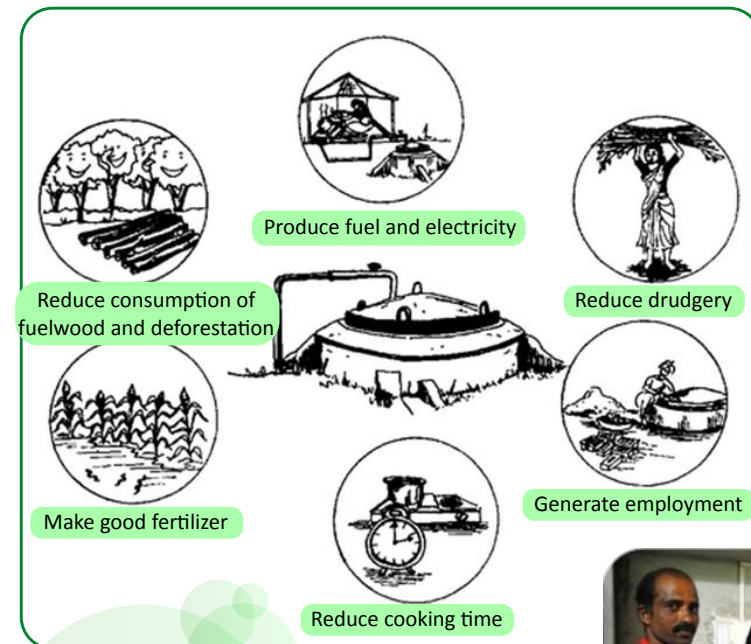
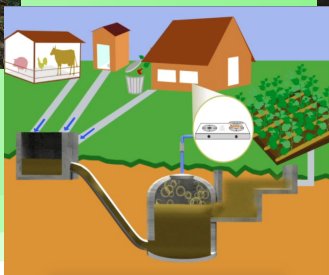
Use of Biogas

- Biogas generated by a family type biogas plant is used for cooking.
- Can be used to heat large quantities of water for bathing and other purposes.
- Can be used by small-scale industries to supply heat in various processes.

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What is Biogas?

- Biogas is a gaseous fuel.
- It is a fermentation product from the remains of bio-degradable organic waste.
- The main component of biogas is methane.

Why Biogas?

- Biogas is eco-friendly, non-polluting and renewable source of energy.
- It helps reduce the drudgery of women, in collecting fuel wood from long distances.
- Improves local sanitary ecosystem.
- Minimizes health hazards during cooking in smoky kitchens.
- It is a better replacement of LPG, Kerosene and firewood.
- Biogas plants are easy to use and the maintenance is quite simple.
- Lifespan of a biogas plant is approximately 25 years.
- By-product of biogas is the nutrient-rich natural manure called slurry, which improves soil fertility.

Raw materials

- Animal waste.
- Domestic and Kitchen waste
 - ▶ vegetable, fruit peels, leftover food items.
 - ▶ the water used for cleaning floors, spoilt milk or tea, etc.
- Plant waste
 - ▶ fallen leaves, flowers, stems, etc.
- Toilet waste.



Area required to build 2 cubic meter biogas plant
12 ft by 8 ft of land.

Cost for building a biogas plant
Rs 20,000 to Rs 23,000.



Role of the Government

Provides subsidies on completion of biogas plant through Zilla Parishad and Gram Panchayat.

Subsidies provided to applicants

- Rs 9,000 for General Category.
- Rs 11,000 for SC/ST Category.
- Rs 17,000 for North-Eastern States.
- Extra subsidy of Rs 1200, if toilet is attached with the plant.

Construction

3-4 days are required to complete the civil work of the plant by 2 masons.

