

What is Biogas ?

Biogas is produced from bio degradable wastes such as manure, food waste, and crop residues, through a process called anaerobic digestion. During this process, some organic compounds are converted to methane (CH₄) and carbon dioxide (CO₂) gases. This mixture of gases is known as biogas. The composition of biogas is 50 to 75 percent CH₄ and 25 to 45 percent CO₂. Like natural gas, biogas can also be used as a fuel in power generators, engines, boilers and burners.

Why is it suitable for use in rural settings ?

- ◆ As all the farmers have animal and its dung is available to feed the biodigester.
- ◆ LPG, Kerosene and Electricity is not readily available in the rural areas, hence importance of biogas increases.
- ◆ Farmers are adopting organic farming. Biogas slurry could be one of the best input for organic farming.
- ◆ Farmers visit the nearby jungles to collect fuelwood. There is risk of animal attack and increasing human-wildlife conflict. While using biogas this risk is reduced.
- ◆ A lot of smoke and related health hazards prevail in rural kitchen due to use of fuel wood and kerosene. Biogas provides a clean energy alternative for cooking for women.
- ◆ Saves women and children from drudgery of collection and carrying of firewood, exposure to smoke in the kitchen, and time consumed for cooking and cleaning of utensils.
- ◆ Leads to employment generation in the rural areas. Youth can undergo training on its maintenance and later on take it up as employment by repairing and maintenance of biogas units. Also the amount of time saved by women, while collecting fuelwood could be utilised for other income generation activities.
- ◆ Household wastes and bio-wastes can be disposed off usefully and in a healthy manner (by not throwing it here and there and create unhygienic conditions).

About Biogas Project

- ◆ Aim of this project is to enhance climate resilience and quality of lives in rural households in Uttarakhand through deployment of clean energy technology.
- ◆ Project objective is to build 3000 biogas plants within 2 years of starting of the project. Another objective of the project is to accrue Carbon Credits by avoiding use of fuel wood for cooking in next 10 years through small scale Gold Standard Verified Emission Reduction (VER) Certification Process.

Where are we doing it ?

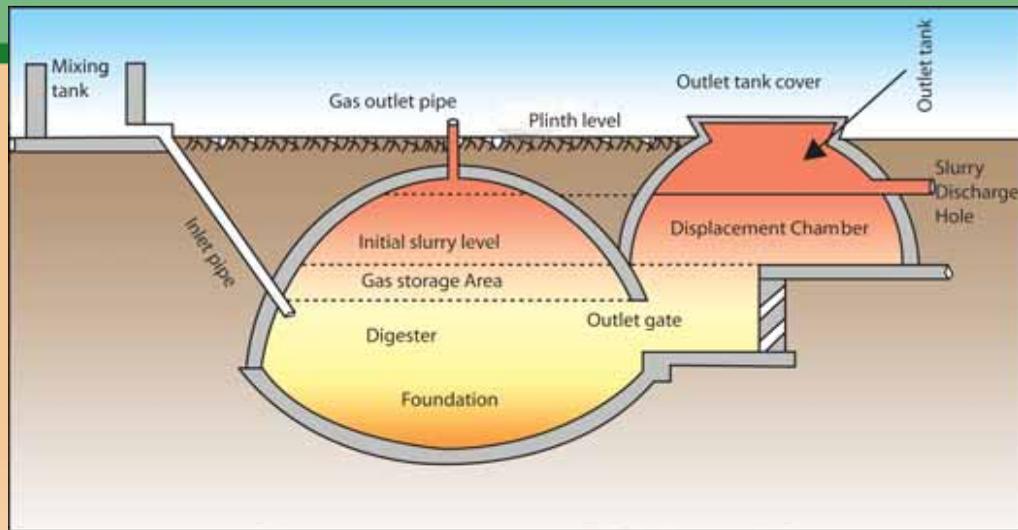
- ◆ The project is being run in villages of districts Nainital, Udham Singh Nagar and Haridwar that surround the Jim Corbett National Park and Nandhaur forest reserve in Uttarakand, India.

Model chosen

- ◆ Currently there are four biogas technologies that are available in India, out of these, the Deenabandhu model is the most implemented model across the country, as its performance is the best.



Biogas Project in Uttarakhand



Financial aspects for each size

SN	Size of Biogas (Cubic Meter)	Farmers Contribution (Rs)
1	1 cubic meter	4,000
2	2 cubic meter	8,500
3	3 cubic meter	10,000

For further enquiry, maintenance and operation related queries, please contact :

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