First Climate

(🛛 India)

Enlightening lives with household biogas

10,400 biodigesters for biogas promotion

Emission Reductions

→ 40,000t CO₂ e p.a.



Project Technology

Renewable Energy - Biogas

India is the largest consumer of fuelwood for energy. In Uttarakhand, home to over ten million people, firewood is the primary energy source for many households. These households use an average of 5 kg of firewood daily, mainly for inefficient mud stoves and water heating. Local forests, high demand, livestock growth, and illegal exploitation, are under increasing pressure as the primary source of firewood. This has led to a deficit in firewood availability, forcing families to travel 2-5 km daily for their fuel needs. Deforestation also leads to desertification and land degradation, posing challenges to agriculture in rural communities. Dry and degraded lands result in poor crop yields and increased flood risks.

This small-scale project installs and operates around 10,400 household biodigesters in rural areas where residents live below the poverty line. The capacity of the biodigesters varies based on the household's livestock. The biodigesters are fueled by animal dung, reducing the need for fuelwood and utilizing agricultural waste. The residue from the biodigesters serves as an organic fertilizer, improving soil conditions. This fermented residue is more effective than fresh manure. Farming families feed the digester with dung, which is later converted into biogas for cooking and water heating. The biogas project reduces carbon emissions and preserves forest areas. Project Standard

Gold Standard



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Sustainable Development

Beyond removing carbon emissions, all our climate protection projects generate multiple additional benefits for people and the environment. These projects support the United Nations Sustainable Development Goals.





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