



# Smart Biogas For Rural Households India

Improving health, quality of life and  
fighting climate change in rural Uttar  
Pradesh & Maharashtra



*By turning cow dung into renewable energy, this project makes significant leaps in improving the everyday life of many families. Hygiene standards in villages are increased, women and children are less exposed to harmful pollutants, moving away from wood-fuel saves time and money as well as alleviating pressure on forests and reducing GHG emissions.*



### The Context

Traditional wood-burning stoves represented a massive problem for many families and for the environment. As well as contributing to indoor pollution, causing several health issues mainly among women and children, who are overwhelmingly responsible for running the household, most families have to walk up to 5 km to collect firewood and it is heavy on the families' budget. The reliance on wood for cooking puts pressure on surrounding forests, leading to degraded lands and increased desertification.

The project offers 3 different size biogas systems to suit family needs

### The Project

To date, the project has installed over 15,000 smart biogas systems to rural families across Uttar Pradesh & Maharashtra. The digesters are fed with cow dung and organic kitchen waste to produce biogas, this gas is then piped to a thermal stove, providing thermal energy for cooking and boiling water, on demand. The biogas systems are long-lasting, easy to install and maintain, and do not cost money to run.

### The Benefits

By replacing inefficient wood-fired mud stoves, with clean, sustainable and efficient biogas, this project is reducing greenhouse gas emissions and improving indoor air quality. Pressure on surrounding forests is alleviated as people have access to a reliable renewable energy source when they need it. The project is also increasing hygiene standards in rural areas, by offering a safe way to dispose of waste, namely cow dung and kitchen waste, which are otherwise left to decay. The residue from the biodigesters is used as a powerful organic fertilizer, which significantly improves soil conditions.



Gold Standard



**Better health**

thanks to less indoor air pollution from the cleaner burning biogas stoves



**Benefits for women**

in their daily life as they are mainly responsible for cooking and collective firewood



**15,000 biogas systems**

distributed providing families with access to clean on-demand energy in their homes



**14 jobs opportunities**

created thanks to the project



**56,000 tCO<sub>2</sub>e**

reduced on average per year by replacing traditional wood-burning cookstoves with efficient biogas ones

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

**Official name:** Household Biogas plants installed in rural areas of Uttar Pradesh & Maharashtra |

**Registry link:** <https://registry.goldstandard.org/projects/details/1097> | **Registry ID:** GS 6301

#forabettertommorrow

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