

COOKING SOLUTION

Domestic biogas



Gold Standard

Domestic biodigesters allow households with livestock to reduce their dependence on polluting firewood and expensive fossil fuels. Cooking on biogas is fast and smokeless, improving family health, especially among women and children. Leftover slurry from the biogas process is an excellent organic fertilizer that improves crop yields, and having more vegetables to sell provides families with extra income.

PROJECT PROFILE:

The Gold Standard-certified Kenya biogas programme provides biodigesters to individual households and helps develop a commercially viable biogas sector that supports the use of domestic biogas as a local, sustainable energy source. Since the start of the programme in 2009, over 13,000 biodigesters have been built across Kenya. Entrepreneurship is encouraged and, to date, nearly 100 masons have started their own business entities, helping to build the local economy.

As a barrier for some families is the cost to apply the biogas technology, the programme initiated credit partnerships with rural micro finance institutions and saving cooperatives to ensure that biodigester buyers get the most favorable credit terms. Income from carbon credit sales benefit directly biogas users in forms of after-sales support, bioslurry training and other useful services.

PROJECT BENEFITS:

- › 13,260 smoke-free kitchens
- › 79,500 direct beneficiaries
- › 161,000 tonnes of wood saved
- › 12,200 productive slurry users
- › 28 private enterprises
- › 115 full time jobs plus part-time unskilled day labour
- › 265,700 tCO₂ reduced



Investment
MADE



24 VERs
\$14/VERs

Social cost of carbon for the value of the CO₂e saved

Social cost of carbon for black carbon + organic carbon

Decrease in deforestation

Financial savings from reduced fuel use + increased job opportunities

Reduced respiratory illnesses + death

Tonnes of GHG mitigated - average emissions per capita in USA