



Efficient cooking stoves, Ghana

Fuel use from increasingly scarce firewood is a growing problem in Ghana. In order to address this problem, an emission reduction project has been set up to distribute modern, fuel-efficient cooking stoves to private households at reduced prices.

Location



Though rich in natural resources, the West African state of Ghana still counts as developing country, suffering from high employment rates. The efficient cooking stoves project is focused on the towns of Accra and Kumasi, with extension out to the provincial towns.

Project



More than 80% of Ghanaian households use wood or charcoal as their main cooking fuel. Whilst wood is used in rural areas, charcoal is common in urban areas because it is light and easy to transport and quick to light. Charcoal is used by approximately 1.3 million households or 31% of all families in Ghana. Most families cook with charcoal in a metal grate or 'coal-pot' that burns very inefficiently.

This project replaces coal pots with an efficient insulated stove, known as the *Gyapa*. Users of the *Gyapa* are pleased with the effects: they observe that the stove keeps going for longer periods, cooks food more quickly, is less smoky and uses less fuel.



Deforestation rates in Ghana are amongst the highest in Africa. With current levels of wood-fuel consumption far exceeding forest growth the project will reduce pressure on remaining forest. Careful fuel consumption tests undertaken as part of the baseline study showed that the *Gyapa* reduces charcoal consumption by 25%. This corresponds to an annual CO₂-reduction of 25,000 tons.

Project achievements



Socio-economic impact:

- The project creates employment and building capacity throughout the supply chain i.e. in manufacturing, distribution, retailing, quality control and project management: The liners are made by a small group of accredited ceramicists who have received specialist training. The metal claddings are made by a further group of accredited manufacturers.
- Ghana's technological self-reliance is improving thanks to specialist skills being developed and furthered in-country: The project partners in Ghana provide training and quality control services, and distribute the stoves through a wide network of retailers.
- The new Gyapa stoves are less smoky, reducing emissions of hazardous air pollutants and improving the health of the cooks, typically mothers and children.
- Reducing fuel costs for families and freeing up money for other uses, the project improves livelihoods of the poor.

Environmental impact:

- Significant reduction of baseline deforestation levels saves forests and wildlife habitat, and improves the water storage capabilities of the soil.

Checklist Project 301 195



The Gold Standard®
Premium quality carbon credits

✓ Additionality and permanence:	according to the rules of the Gold Standard
✓ 3 rd party verified:	by TÜV Rheinland
✓ Transparency:	provided by the Gold Standard Registry
✓ Annual CO ₂ -reduction:	25,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available