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Ghana: Reducing deforestation with improved cook stoves

Fuel wood and charcoal meet 75% of Ghana's fuel requirements. 70% of all urban households in Ghana use charcoal. The demand for wood puts Ghana's forests under tremendous pressure and has severe consequences for the ecosystem as a whole. Besides, the WHO estimates that exposure to indoor air pollution is responsible for 16,600 deaths per year in Ghana.

This project aims to commercialize up to 244,000 cook stoves over a period of nine years. The improved charcoal cook stoves achieve fuel savings of 35 to 50%, which means savings of 300 kg of charcoal per year for an average family.

Focus...

In conventional fireplaces, the combustion of fuel is incomplete. The improved cook stoves achieve higher combustion efficiency by using the smoke-stack effect which supplies oxygen in excess and thus allows for the quicker and cleaner burning of fuel. Better stove insulation boosts this effect and improves general heat retention to minimize loss of unused heat. Heat loss is reduced further by optimizing heat transfer between the stove and the pot. The wood stoves use the well-proven rocket technology, which raises the cooking pot to the hottest point above the flame. These improvements reduce the charcoal needs, thus reduce the related greenhouse gas emissions, and improve indoor air quality.

This project improves the living conditions of families by reducing hazardous smoke from fire. It improves quality of life for women by reducing the amount of firewood needed for cooking, thereby freeing up time for more productive activities such as the education of children or economic or agricultural tasks.

Finally it slows deforestation and consequently slows soil erosion, protects watersheds and preserves natural habitats and biodiversity.

This project is registered according to the Gold Standard criteria as project **GS n° 413**



Emissions reductions

65 000

tons CO₂ per year

Credit's type

VER

Standard



Certificate dated 19/09/2013