

Kenya: Clean cooking; safe water

Improved cook stoves and water treatment project



Certification:
Gold Standard
Climate Partner | GreenBiz | Development



Key Facts



The Project

Wood fuel still provides up to 90% of households' energy requirements in rural Kenya. The majority of energy consumption is used for cooking. Commonly, three-stone cook stoves are used which utilize only approximately 10% of the thermal energy released by burning firewood. This inefficiency together with a general lack of sustainable forest management results in increasing deforestation and erosion.

In addition to environmental issues, traditional cooking methods have a variety of adverse health effects as they generate large amounts of fumes in people's homes due to inefficient combustion. The smoke, which is inhaled on a daily basis over years, can lead to serious lung and eye ailments and may even cause birth defects. A WHO report concludes that indoor air pollution is a major environmental and public health hazard for many of the world's poorest, and most vulnerable people.

Approximately 80% of the diseases in developing countries can be traced back to the consumption of contaminated water; each year more than two million children die due to this cause. Kenya is especially affected, as it lacks access to clean drinking water. The project seeks to improve health and income throughout Kenya by reducing time and money spent on acquiring fuel for household cooking, and by providing local people with improved access to clean water.

Location:

Kenya, Africa

Project type:

Energy efficiency - domestic

Total emissions reductions:

» 480,000t CO₂ e p.a. «

Project standard:

Gold Standard

Project start date:

June 2009

Sustainable development

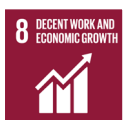
By supporting this project you'll contribute to the following SDGs:



Good health and well-being: Improved cook stoves reduce the emission of harmful substances, which are a key risk factor for respiratory infections, as well as for cardiovascular and ocular diseases.



Clean water and sanitation: By facilitating access to clean water, the project helps to stop the spreading of water-borne diseases.



Decent work and economic growth: This project helps to create many new employment opportunities throughout the country. Less fuel wood has to be collected for cooking or boiling water. This frees up time for more productive occupations.



Life on land: The project reduces the reliance on wood as a fuel. Slowing deforestation yields direct benefits like slowing soil erosion, the destruction of natural habitats, and loss of biodiversity.



**SUSTAINABLE
DEVELOPMENT
GOALS**

While focusing on reducing greenhouse gas emissions, all our projects also generate multiple co-benefits. These are supportive of the United Nations Sustainable Development Goals.



Technology brief – how it works

The project distributes two types of efficient cook stoves across Kenya: the “JikoPoa” (cool stove in Swahili) and the Envirofit stove. The JikoPoa, which is developed through a participatory approach involving stove-users in rural Kenya, is locally produced using local materials and expertise. Cooking stoves are provided through a participatory local stakeholder approach. The idea is to improve health and incomes throughout Kenya by reducing the time and money spent buying fuel for household and institutional cooking. The production and sales of the cooking stoves is also handled by locals. The cooking stoves are made of sustainable and durable materials and are very energy efficient, meaning less wood is required and burned, resulting in significantly lower carbon emissions as well as less toxic smoke.

The project supports the distribution of diverse water-purifying technologies. Water treatment systems allow households to get access to clean water without the need to boil it. Reduced boiling helps to keep fuel use and greenhouse gas emissions low.



Project Standard



The Gold Standard is an award winning certification standard for results based project finance and is recognised internationally as the benchmark for quality and rigour in certifying environmental and socio-economic project outputs. Established in 2003 by the World Wide Fund For Nature (WWF), the Gold Standard today is trusted and endorsed by NGOs, governments and multinationals including United Nations agencies worldwide.

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