



ClimatePartner^o



Water Purification

Western Kenya, Kenya

This project provides access to clean drinking water by distributing water purification units. These units work as microbiological purifier for contaminated water. The conventional water treatment is boiling by burning firewood. The project activity reduces the use and demand for firewood, thus directly leading to reduced CO₂ emissions. Since the beginning of the project in 2011, 4,476,205t CO₂ equivalents have been saved and officially verified.

In rural western Kenya, the health of local communities is at significant risk through drinking water containing microbiological contamination. Many residents suffer from water-borne diseases such as diarrhoe, which is the third leading cause of death in Kenya among children and adults, according to the World Health Organisation.

Due to the project activity households in rural western Kenya will be supplied with water purification units to improve the access of clean drinking water.

The water filter requires no electricity or consumables, the purification is gravity driven. Water is poured into the top, passes through a filtration process, and is drawn off at the bottom through a tap.

This project directly addresses several of the United Nations Millennium Development Goals (MDGs), including that of halving the proportion of the population without sustainable access to safe drinking water and basic sanitation. Currently, 3.6 million people in the Western province of Kenya have access and use the water purification units on a regular basis. During the monitoring period (November 2012 to January 2014) 3,169 water purification units and 4,175 filters have been replaced.

Additional sustainable benefits of the project

- » Reduction of child and adult morbidity and mortality
- » Increase of productivity, improved attendance at school
- » Deforestation is reduced as pressure for firewood lessens
- » Directly employment of several thousand Kenyans during the deployment, and several hundred jobs during annual monitoring, education and maintenance activities
- » Reduced indoor air pollution

Verification:

ERM Certification and Verification Services

Type:

Gold Standard VER, Nr. 886

Annual volume:

2,073,000 t CO₂-equivalents

