

Efficient Stoves Reduce Deforestation



The village's women fill the gaps with sand and clay so that a stable construction is created.

The climate protection project in Eritrea supports the villagers in building smokeless, efficient ovens. The reduction of the smoke and greenhouse gases benefits the climate and at the same time promotes the health of women and children.



100%

of stove users report better health conditions



3,000

women trained



2,900

cook stoves installed

The project in Eritrea is being carried out by the Swiss support committee for Eritrea (Schweizerischen Unterstützungskomitee für Eritrea, SUKE) together with the Eritrean partner organization Vision Eritrea.

Until now, every household in Eritrea has a so-called mogogo oven with which the traditional flatbread (injera) is prepared. However, the ovens do not have a chimney or smoke outlet and consume large quantities of firewood, which is scarce in that region. The new smokeless and energy-saving mogogo oven model was developed and tested by the Eritrean energy ministry. With the new ovens, no more health-damaging smoke accumulates in the house during cooking, which benefits the health of the women and children. Moreover, the new mogogo saves about 50 per cent

Project type:

Efficient cook stoves

Project location:

Debub and Gash Barka, Eritrea

Annual CO₂ reduction:

2,600 t

Situation without project

Use of non-renewable biomass fuels

Contribution to the SDGs



Project standard

Gold Standard

VER

Awards



Impressions



With the smokeless and low-emission mogogo oven, the health-damaging smoke emissions during cooking are eliminated.

of firewood. The consumption of firewood, and therefore also the deforestation and the emissions of greenhouse gases, are consequently reduced.

The project also includes other social advantages: The population saves itself the tiresome gathering of firewood and the cooking time is reduced. This way, more time remains for other tasks. Since less money has to be spent for the purchase of the expensive firewood, the project supports the poorest families in Eritrea and thus leads to a social balance. Project implementation was successfully completed by the end of 2011.

Impacts and benefits achieved so far:

- 16,000 people benefit from efficient and clean cooking.
- 2,900 cook stoves have been installed.
- 340 temporary jobs have been realised.
- 3,000 women have been trained.
- Each stove avoids about 1 t CO₂ and 0. t wood per year.
- In annual monitoring surveys 100% of stove users report improved air quality in the kitchens and better health conditions.
- 17,000 t wood saves so far
- 500 ha of forest area saved



Working together, the women erect the upper part of the mogogo oven with prefabricated tiles.



The efficient mogogo ovens are constructed by the village's women themselves.



Trained instructors assist the women of the village in the construction of the ovens.