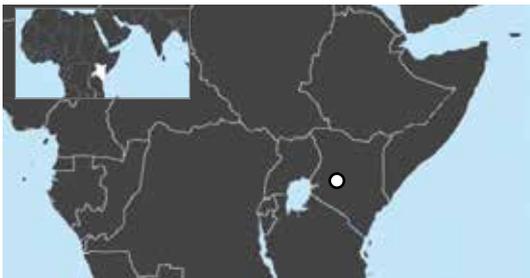




## Clean cooking stoves and water filters saving lives and forests, Kenya

This is the first and only project encompassing both cooking stoves and water purification devices to support local communities. Its aim is to provide safe water and clean indoor air to improve livelihoods in East Africa, while at the same time limiting deforestation and delivering a multitude of community benefits.

### Location



The project is based in the East African country of Kenya. Although it is the biggest and most advanced economy in East Africa, Kenya is still a poor, developing country with a Human Development Index of 0.509, giving it a position of 143 out of 185 – one of the lowest in the world. Half of Kenyans live in absolute poverty; around 85 children die every day from water-borne diseases such as diarrhea or cholera.

Firewood and biomass fuels put an immense pressure on the forests of eastern and southern Africa: in the last 15 years alone, the region has lost over 10% of its forest cover.

### Project



The project's primary goal is to reach low-income families and organisations that cannot normally afford to purchase improved stove and water treatment technologies. The prospect of future carbon revenues has allowed the project to secure investment for subsidising the manufacture and sale of high-quality and efficient stoves and of water treatment products. To date, already 30,000 stoves have been distributed. At full capacity, the project will be able to provide clean air and water to more than 300,000 Kenyan families.

Improved cooking stoves are distributed at reduced prices, enabling poor families to cut their firewood demand by about 50%. This in turn takes the burden off the women and children, who traditionally collect the firewood, reduces deforestation rates and improves the indoor air quality.



In rural Kenya, more than 65% of the population do not have access to drinking water. To increase water treatment and improve local's health, chlorine dispensers have been installed at communal water points, such as springs and boreholes. A local volunteer works to continually educate the community about the benefits of the dispenser, promote its use, and to maintain the supply of chlorine. In addition to the health benefits achieved, this cuts further the demand on firewood, which is otherwise used to sterilise water by boiling.

The lower rates of deforestation are estimated to relieve our global climate from about 20,000 tCO<sub>2</sub>e per year.

## Project achievements



### Socio-economic impact:

- Households benefit from time-savings due to the diminished need for wood collection, as well as economic savings from the reduction in purchase of commercial fuels.
- Indoor air pollution is significantly reduced, thanks to the improved stoves, leading to fewer respiratory and eye diseases.
- Women and children in particular benefit from more free time, since time spent collecting wood is cut by about 50%.
- The project supports micro-entrepreneurs and other small enterprises which sell the stoves in different regions of Kenya.
- The project has invested in local human resources, including the hire of a full-time administrative assistant, four sales executives, and an accountant.
- In support of the 200 project sales partners in Kenya, the project is engaged in more than twenty market activations and stove demonstrations per week around the country, including practical showcase demonstrations, public announcements, and road shows.
- High-capacity institutional stoves are produced specifically for schools to help reduce their firewood consumption and also bring the message to pupils' families.

### Environmental impact:

- Significantly reduced firewood demand all over the country is contributing to large-scale forest protection.
- Reduced deforestation rates are expected to contribute to the reduction of erosion and landslides, and to improve the water cycle of the forests, which in turn benefits the land and agriculture.

## Checklist Projekt 301 260



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For further information and to learn about availabilities please contact:

South Pole Carbon, Sales Department

[sales@southpolecarbon.com](mailto:sales@southpolecarbon.com)

+41 43 501 35 50

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