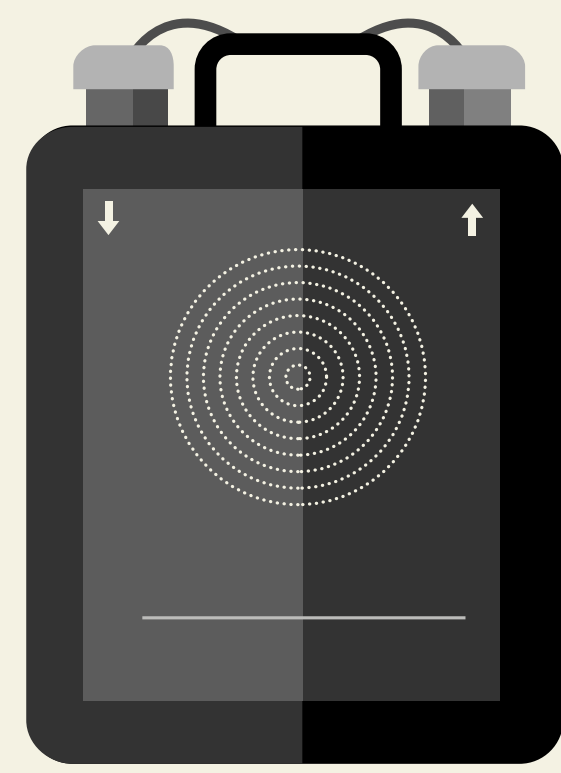
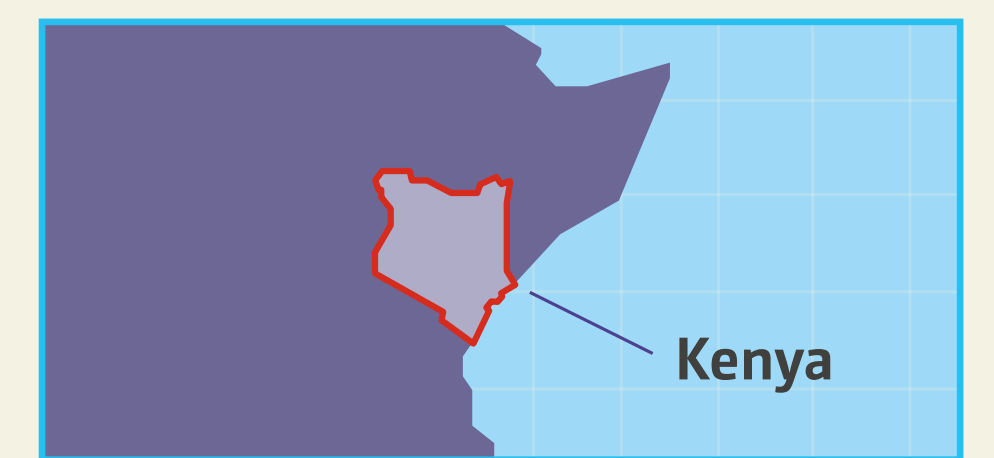


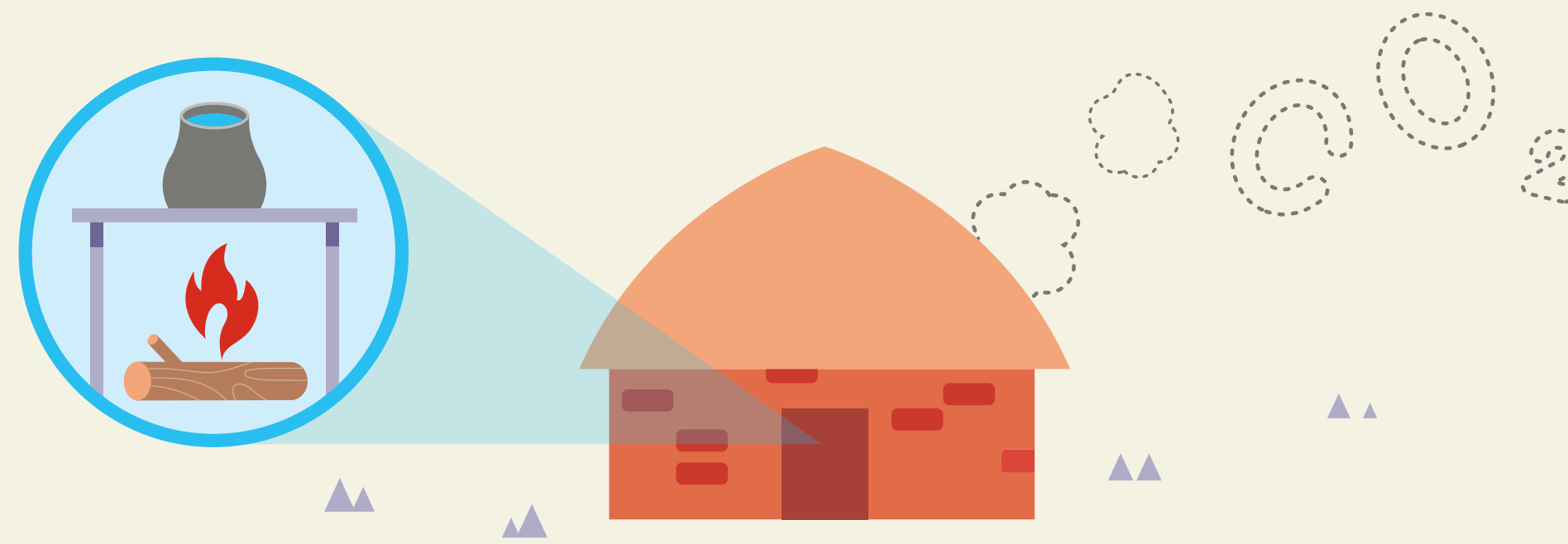
# Solvatten Solar Safe Water Heater

Reducing emissions while securing access to safe drinking water



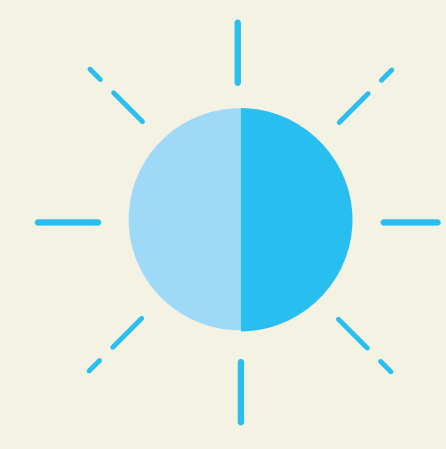
Solvatten is a dual water treatment and solar water heating system that is tackling climate change and improving lives in Kenya's urban slums. The device harnesses the power of the sun to treat and heat water, reducing the need to heat and boil water by burning firewood or charcoal.

## The problem



Families in Sub-Saharan Africa typically heat and boil their water by burning firewood and charcoal. Not only is this time consuming and expensive, it causes harmful indoor air pollution and releases greenhouse gas emissions.

## The solution



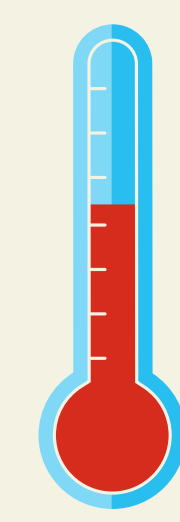
### Solvatten

uses only solar energy to treat and heat water.



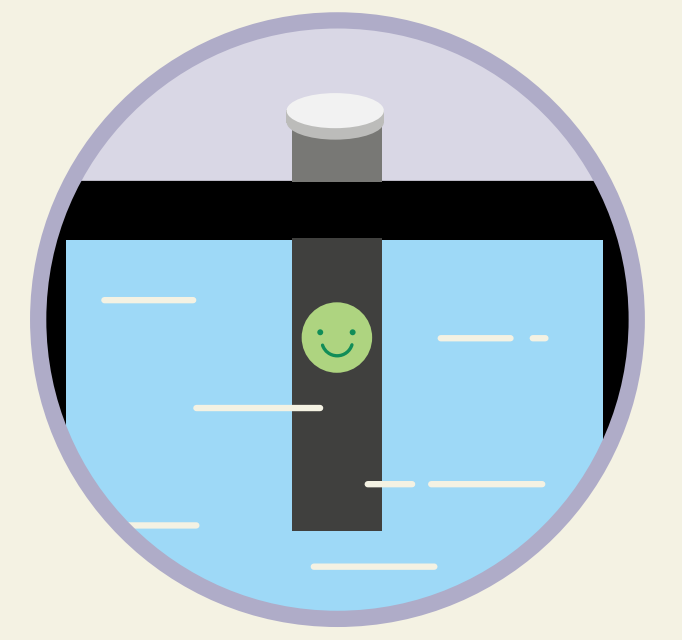
### ▶ 11 litres of water

is held by each unit. Solvatten can also treat up to 44 liters of water per day.



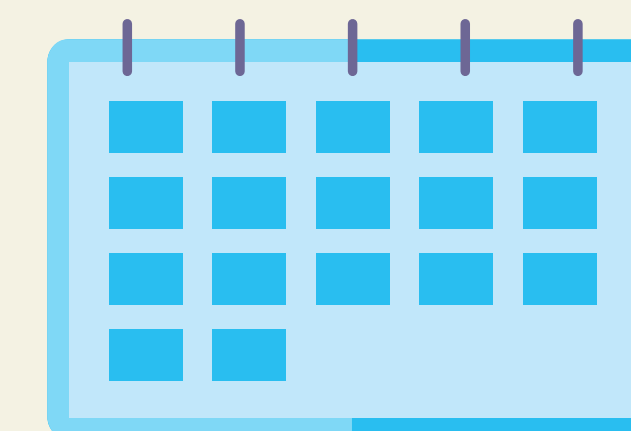
### ▶ 55°C +

water is heated when the indicator shows a green face. The water temperature can reach 75°C.



### ▶ 2-3 hours

A combination of UV rays and heat warms and eliminates all pathogenic material in 10 litres of water in just a few hours.



### ▶ 7 years+

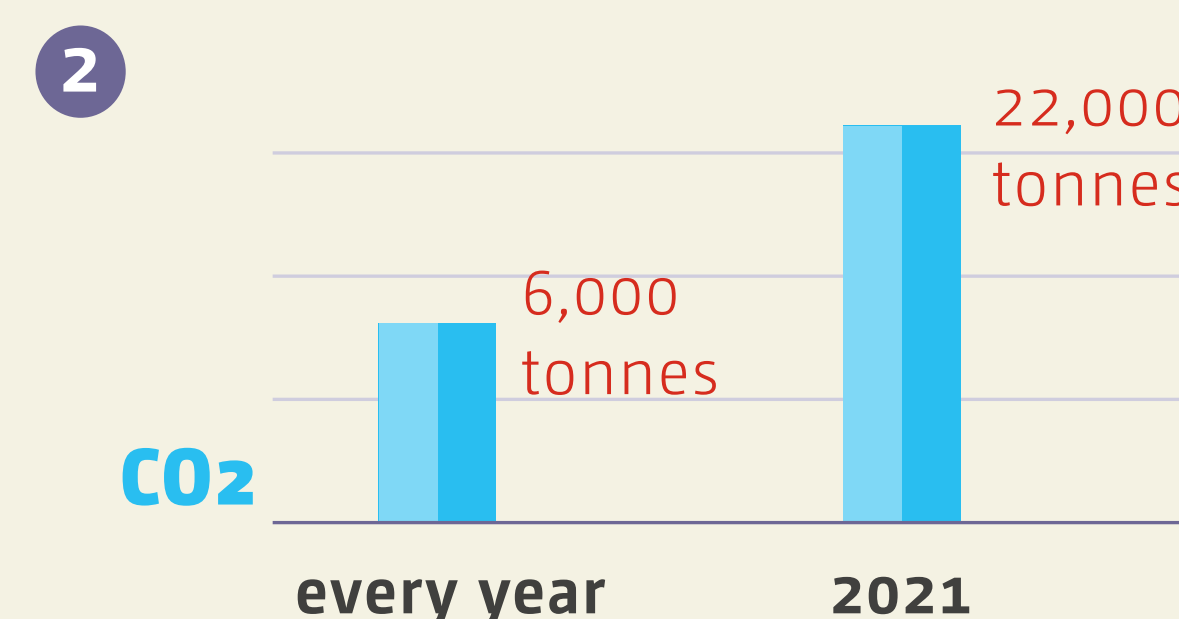
The system is maintenance free and can be used for over seven years.

## Helping the planet and helping people

This solar technology reduces the need to heat and boil water by burning firewood or charcoal. This leads to reduced deforestation, reduced burning of solid fuels, and consequently reduced emissions, as well as reduced fuel expenses for the urban poor.



1 One year of using a Solvatten unit saves 5-6 mid-size trees.



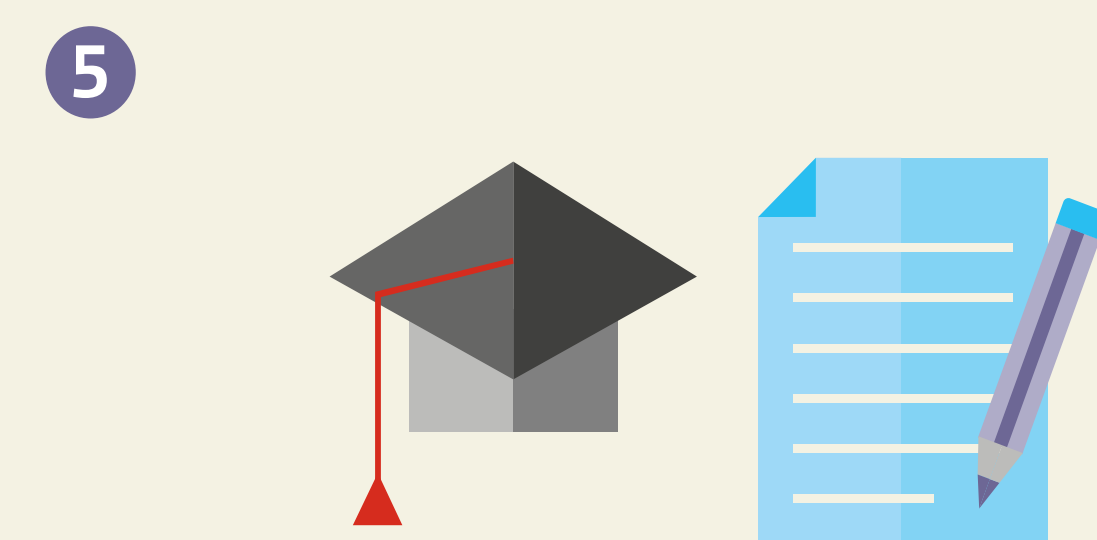
2 The Solvatten project in a Kenyan urban slum saves up to 6,000 tonnes of CO2 emissions every year. After four years of Solvatten use, 22,000 tonnes of greenhouse gas emissions have been avoided.



3 By ensuring access to safe and heated water the technology has increased the urban poor's resilience to the effects of climate change and water-borne diseases.



4 On average, Solvatten users have been able to reduce their energy costs by 50% (savings of 11-12 USD per month).



5 66% of respondents said that absenteeism from school and jobs was significantly reduced after the inception of Solvatten.