



To:

Families in Tharaka, Kenya

Solvatten® and International Aid Services work together in Kenya to improve the lives of vulnerable families living in the northern province of Tharaka. The project also increases the use of renewable energy. This is hopeful for a sustainable future for all.



#UN-SDG's



Everything starts with clean water

Almost one billion people in the world live without access to clean water and electricity. The majority of these live in rural areas and spend 4-5 hours a day collecting water and wood. Clean water in your home leaves more time for school or work, and a way out of poverty.

Due to the lack of energy infrastructure, people use natural resources, such as wood and charcoal, for cooking, washing and heating water. Up to 70% of the energy used by a typical home in Sub-Saharan Africa is used for these purposes. This strong dependence on natural resources lead to smoke inhalation, burn injuries, carbon dioxide emissions, and deforestation, which gives rise to environmental problems. Indoor plumbing and secure electricity supplies are distant dreams for many people.

Solvatten - Just add sun

- Clean, heated water after 2-6 hours
- Cleans around 6'000 litres per year
- Can be used several times a day
- Easy to use and carry
- An indicator shows you when the water is clean
- No need for batteries, spare parts or chemicals
- Long lifespan of 7-10 years



Be part of the solution

Solvatten is a Swedish invention that heats and purifies water with the help of sunlight. Clean, safe water is a must. Hot water is also good for cooking, hand washing, bathing and domestic use.

The container is filled with water and left in the sun for a couple of hours. The process prevents microorganisms from reproducing, leaving the water safe from bacteria that causes diarrhoea and other diseases.

The first 5 years of a child's life are critical time when children are at their most susceptible to waterborne diseases. **Solvatten has an average lifespan of 10.000 cycles or 7-10 years.** It saves lives and it saves both time, energy, money and the environment. Together, we can reach the Sustainable Development Goals to achieve a better and more sustainable future for all.



All the way to where it is most needed. Solvatten in partnership with aid organisations support health clinics in Kenya.



Better health gives more time for school. Solvatten makes impact on UN SDG's 4

Life in Tharaka, Kenya

In Kenya, only 27% of the population have access to the electrical grid and more than 17 million people lack access to safe water. Tharaka Nithi and Tana County is a dry region in North East Kenya where clean water is a scarce resource and the prevalence of water borne diseases is high.

Around 80% of the population in the county are farmers. In order to meet basic needs, these families are pressured to use natural resources in a non sustainable way. Deforestation is rampant. With Solvatten we can change this situation to the better.

Saving the climate

Solvatten is an effective solution that improves the resistance to climate change. The usage of Solvatten decreases the need for wood and coal which saves trees and reduces the harmful CO2 that forms when burning the fuel.

Better situation for girls and women

It usually falls on the women to walk the long and sometimes dangerous road to collect water and wood. With Solvatten, women have more time to spend on income generating activities and their daughters have time to go to school.

With safe water and improved hygiene practices the families will have a healthier life with less infectious diseases. Good health makes more time for school, work and a way out of poverty.

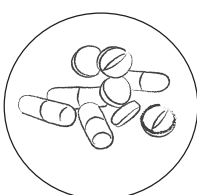
Implementation

The project will be implemented with our partner organisation International Aid Services (IAS). IAS is a non-profit organisation with the aim to give people the tools to improve their own future (www.ias.intl.org). IAS has experience working in the region, focusing on various activities to decrease the negative effects of climate change.

Positive effects of sending one Solvatten to Tharaka in Kenya



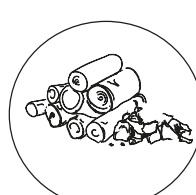
One family has safe water for many years (7-10)



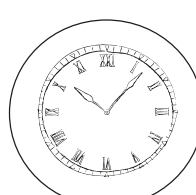
Improved health for 5-6 people



Household expenses decreased by 50% (est. 670\$)



Decreased wood burning: Equivalent to 74 trees



3-4 hours saved each day for one household



More than 42,000 litres of water will be cleaned

Project overview

Name: Solvatten to Tharaka, Kenya

Beneficiaries: 792 families with children below the age of 5 years (around 3960 people).

Project time: January 2019–December 2020

Cost: SEK 1100 per Solvatten and family, including shipping, customs, tax, insurance, local transport, project expenses and impact measuring.

Estimated saved CO2 emission: 7 tCO2 per Solvatten

Local project partner: International Aid Services (IAS), www.ias-intl.org

Project partner:

Solvatten AB

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About the technology

Solvatten® uses solar energy to treat and heat water. No chemicals are added, no energy source other than the sun is used, and no regular supplies are required. Solvatten treats water contaminated with micro-organisms which cause waterborne disease. This is done by a combination of three well-documented methods for treating water: filtration, UV-disinfection and pasteurisation. Virus, bacteria, and parasites become harmless and water is safe to drink. Keep exposing it to sunlight and the water temperature can reach up to 75°C.

Solvatten is produced in Sweden and is benefitting +320,000 people already!

Do you want to know more?
Please contact us.

Solvatten

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