

An aerial photograph of a circular tree pit in a forest. The pit is filled with soil and some small green plants. A yellow brushstroke banner is overlaid across the center of the image, containing the main text. The background shows the surrounding forest floor with various green plants and soil.

**ONE COOKSTOVE SAVES TREES,  
HUNDREDS SAVE FORESTS.**

IN UGANDA



[CO2logic.com](http://CO2logic.com)

UGANDA COOKSTOVE PROJECT  
With the support of



**172 000**  
TREES SAVED



**100** HECTARES  
PRESERVED

**2 000**  
COOKSTOVES  
BUILT

**11 000**  
TONS OF CO<sub>2</sub>  
AVOIDED



## IN A FEW WORDS

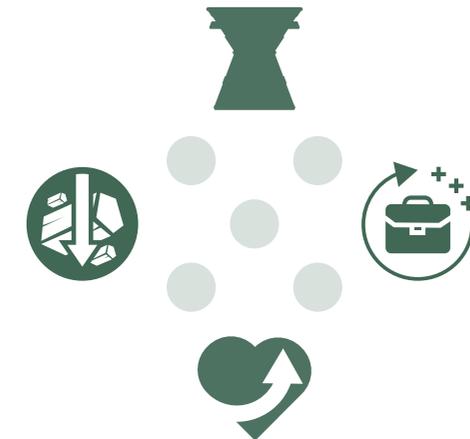
### EFFICIENT COOKSTOVES FOR A CLEANER AND HEALTHIER PLANET

Uganda, a country of about 31 million people, has one of the highest population growth rates in the world. An estimated 90% of the population in Uganda still has no access to electricity and thus depends mainly on biomass (fuel wood, charcoal or crop residues) for heating and cooking.

Most families cook with traditional three stone fires which consume large amounts of firewood. The collection of wood is causing deforestation and land degradation. Cooking on these rudimentary open fires is also a significant source of greenhouse gas emissions. In 1990, Uganda had more than five million hectares of forest cover, but today, less than 3.2 million hectares remain. If deforestation continues at the current rate, Uganda will have lost all of its forests by 2050.

In addition to the environmental consequences, there are serious health implications related to inefficient cooking methods, through the exposure of smoke and the unsafety of fire. For many families, firewood can also be very costly or time consuming, especially for women who are traditionally responsible for collecting firewood.

The Project proposes efficient cookstoves to rural families in Uganda. These stoves are safer and use much less fuel, which improves the health standards and reduces damage to the ecosystem.



# IN UGANDA

## ISSUE N°1

Rapid depletion of environmental resources is threatening the future of many families in Uganda. There are also many respiratory health issues related to cooking on inefficient stoves. For many families, buying firewood fuel is very costly and time consuming.

## ISSUE N°2

When a forest area is destroyed, the soil gradually weakens and makes the ecosystem more vulnerable to natural disasters such as landslides or floods.

## ISSUE N°3

Deforestation also has a very strong impact on climate change as trees store CO<sub>2</sub> throughout their life. By destroying these trees, the capacity of the global ecosystem to store CO<sub>2</sub> is reduced. Less trees means less CO<sub>2</sub> absorbed and therefore more greenhouse effect.

### UGANDA

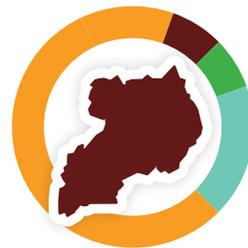
241 551 km<sup>2</sup>

58% Agriculture

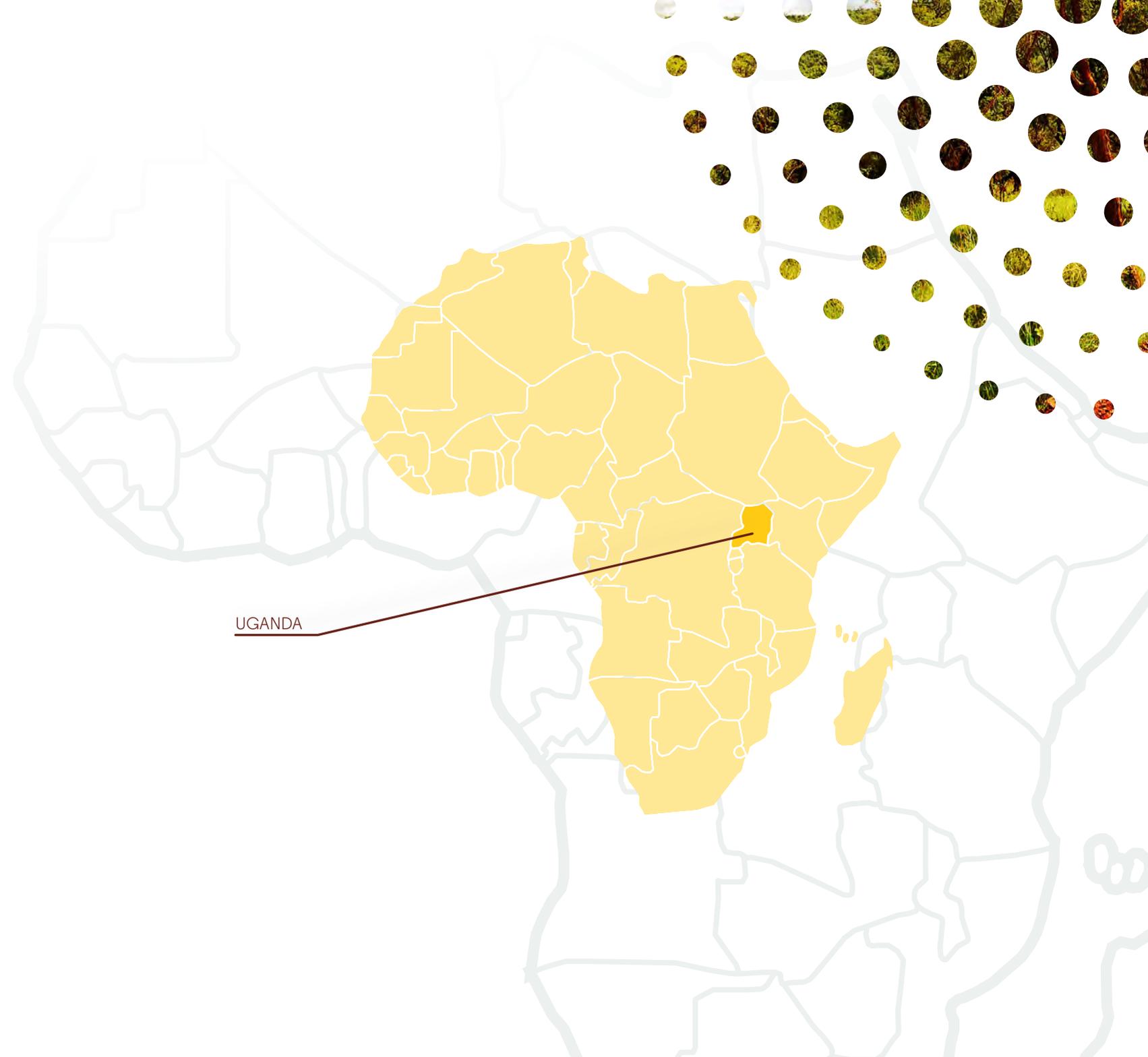
18% Water

12% Forest

12% Other



A solution to these issues can be found with the distribution of efficient, clean and safe cookstoves. To most families, these stoves are inaccessible or unaffordable, but with the support of this Project, more and more families gain easy access to these.







### **IMPROVED HEALTH AND WELL-BEING**

The efficient cookstoves improve health by producing less smoke and by making the air circulate better in the house, resulting in fewer respiratory infections. The time gain for women makes it possible for them to spend more time with their children or to engage in other social and economic activities.



### **PROTECTING THE ENVIRONMENT**

Forests in Uganda are disappearing. Forests provide precious ecosystem services (climate regulation, water regulation, protection against soil erosion, ...) and are home to endangered species such as the chimpanzees. When there is less need for wood or charcoal, the pressure on the forests of Uganda decreases.



### **ECONOMIC SUSTAINABILITY**

The cookstove supply chain is completely located in Uganda, providing sustainable jobs to the local people. Moving to efficient cookstoves increases well-being and reduces poverty since families spend less money on fuel. The savings can now be used for more critical expenditures which significantly improves quality of life.



## IMPROVED HEALTH AND WELL-BEING

### HEALTHIER FAMILIES AND EMPOWERED WOMEN

Cooking on open fires or traditional stoves produces a lot of smoke, especially in indoor kitchens. In the great majority of Ugandan households, the kitchen chores such as collecting fuel, cooking and cleaning, are carried out by women. Because of the kitchen related activities, women and children are more exposed to the indoor air pollution and associated hazards, such as respiratory issues, headaches, itchy eyes, coughing or lung infection which in some cases can be fatal.

With the introduction of an efficient stove, indoor air quality improves, families are healthier and mortality rate decreases.

Women, who now have to spend less time cooking or collecting fuel, experience a huge time gain. This allows to spend more time looking after children or other activities that were previously impossible. The Project also develops a special focus on women emancipation.

**7** AFFORDABLE AND CLEAN ENERGY



**3** GOOD HEALTH AND WELL-BEING





## PROTECTING THE ENVIRONMENT

### COOKSTOVES HELP THE VALUABLE FORESTS IN UGANDA

In Uganda, on average, the total forest cover has declined by 1,8% per year. This is mainly caused by the deforestation coming from the collection of biomass as it is the most common primary energy source.

The demand for firewood for cooking exceeds natural regeneration, leading to **massive deforestation**. Hence, the more efficient use of charcoal reduces the pressure on forest resources and can contribute to the reduction of land degradation.

Forests are very important for the local population as they provide ecosystem services and play an essential role in agriculture. They also are very valuable in terms of biodiversity and carbon sequestration. The abundant wildlife in Uganda includes chimpanzees as well as rare birds.

With the implementation of one cookstove, 1 tonne of CO<sub>2</sub> emission is avoided per year, and more than 16 fully grown trees are protected.

The cookstoves are produced responsibly with respect for the environment (the use of clay is regulated to avoid soil erosion) and safety rules for the workers are guaranteed!





## ECONOMIC SUSTAINABILITY

### COOKSTOVES ARE A SOLUTION AGAINST

Cookstoves are the ideal solution for many issues, but for most Ugandan families, they are not always affordable due to the amount of investment to be paid at once. The Project ensures cookstoves are available and affordable, to equip as many families as possible.

In the long run, the use of improved stoves generates savings allowing families to devote their budget to other needs such as school fees or food. Improved stoves therefore contribute directly to reducing poverty and improving people's livelihood. Further, the proposed cookstove project has a supply chain that is completely situated in Uganda, providing sustainable jobs to local people. This includes the manufacturing, distributing, retailing and maintenance. This market-based approach to sustainable development generates the most benefits, has the lowest climate impact and provides a long-term solution.

**8** DECENT WORK AND ECONOMIC GROWTH



# IMPACTS OF THE PROJECTS



The Gold Standard certification body checks the impact of the Project throughout its lifespan, in terms of greenhouse gas emission reduction and also several other benefits. In order to do so, a lot of data has to be collected on the spot, such as, the amount of cookstoves distributed, the hectares of forests saved, the amount of families positively impacted, etc. This data is collected by independent researchers, according to specific criteria defined by the Gold Standard.

**Each level of the project allows important CO<sub>2</sub> reductions & creates many positive outcomes for the local population, all in line with the United Nations Sustainable Development Goals.**



**SUSTAINABLE DEVELOPMENT GOALS**  
17 GOALS TO TRANSFORM OUR WORLD





CLIMATE IMPROVEMENT



Generating carbon credits



Reduction of carbon emissions



Fewer forest cleared for fuel



Preservation of biodiversity and ecosystem



NATURE PRESERVATION



ETHICAL BUSINESS



Job opportunities to local people



Money saving for families



Supply chain fully in Uganda



Reduction of household air pollution



More time for women and families



Reduced risk of burn



BETTER LIFE CONDITIONS



CLIMATE

ECONOMY

PRESERVATION

HEALTH



## **CLIMATE ACTION**

“HOW CAN WE REDUCE OUR CLIMATE IMPACT AND THAT OF OTHERS?”

This is the first question the team of CO2logic asked themselves, back in 2004.



There are often limits to the CO<sub>2</sub> emissions that can currently be reduced, and each remaining tonne of CO<sub>2</sub> has a high cost for society & future generations. At CO2logic we firmly believe that future generations are not responsible for these “climate disruption costs”. That’s why CO2logic supports companies and organisations in reducing and offsetting their impact on climate & the environment: by supporting & developing climate projects that generate carbon credits. This is the way to give back and restore the balance.

A WORD FROM ANTOINE GEERINCKX, FOUNDER OF CO2LOGIC

“There is only one atmosphere and there are no borders for CO<sub>2</sub> emissions. Our climate projects help in avoiding deforestation through education, collaboration, energy efficiency, fuel switch, renewable energy, reforestation, access to clean water. We act to improve the livelihood of local people while addressing the global climate breakdown. We are all interconnected.”



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