

DROP THE ACT

DROP THE GLOBAL CO₂ EMISSIONS BY GIVING ACCESS TO
CLEAN WATER IN RWANDA



CO2logic.com



REHABILITATING
WELLS 
RESULTS IN

 **280**
HECTARES
OF FOREST


20 160
PEOPLE

51.5 M
LITERS 
CLEAN WATER

540 000
SAVED TREES


90 000
TONS OF CO₂
AVOIDED

IN A FEW WORDS

IMPROVING LIVES.

People in Rwanda don't have easy access to clean water. Water is collected from polluted sources, in order to make it safe for consumption it has to be boiled first. This process leads to a general deforestation as wood is the main fuel source for most Rwandese people. Furthermore is the process of burning wood bad for the (indoor) air quality leading to many respiratory issues.

This project gives households access to clean water, which eliminates the need of boiling water for purification purposes. This saves a lot of wood which protects the trees and the forests. Households save on their budget by not having to invest as much in fuel, they also gain time, and better health conditions.



IN RWANDA

POPULATION GROWTH IS THREATENING RESOURCES

■ Issue n°1

Located in East and Central Africa, the Republic of Rwanda is one of the smallest countries in the world. Yet, its population density is one of the highest, which puts a lot of pressure on the natural resources.

■ Issue n°2

Water often comes from polluted sources and needs to be boiled in order to purify it. This requires a lot of firewood which then has a big impact on the forests.

RWANDA
26 338 km²

69.8% agriculture

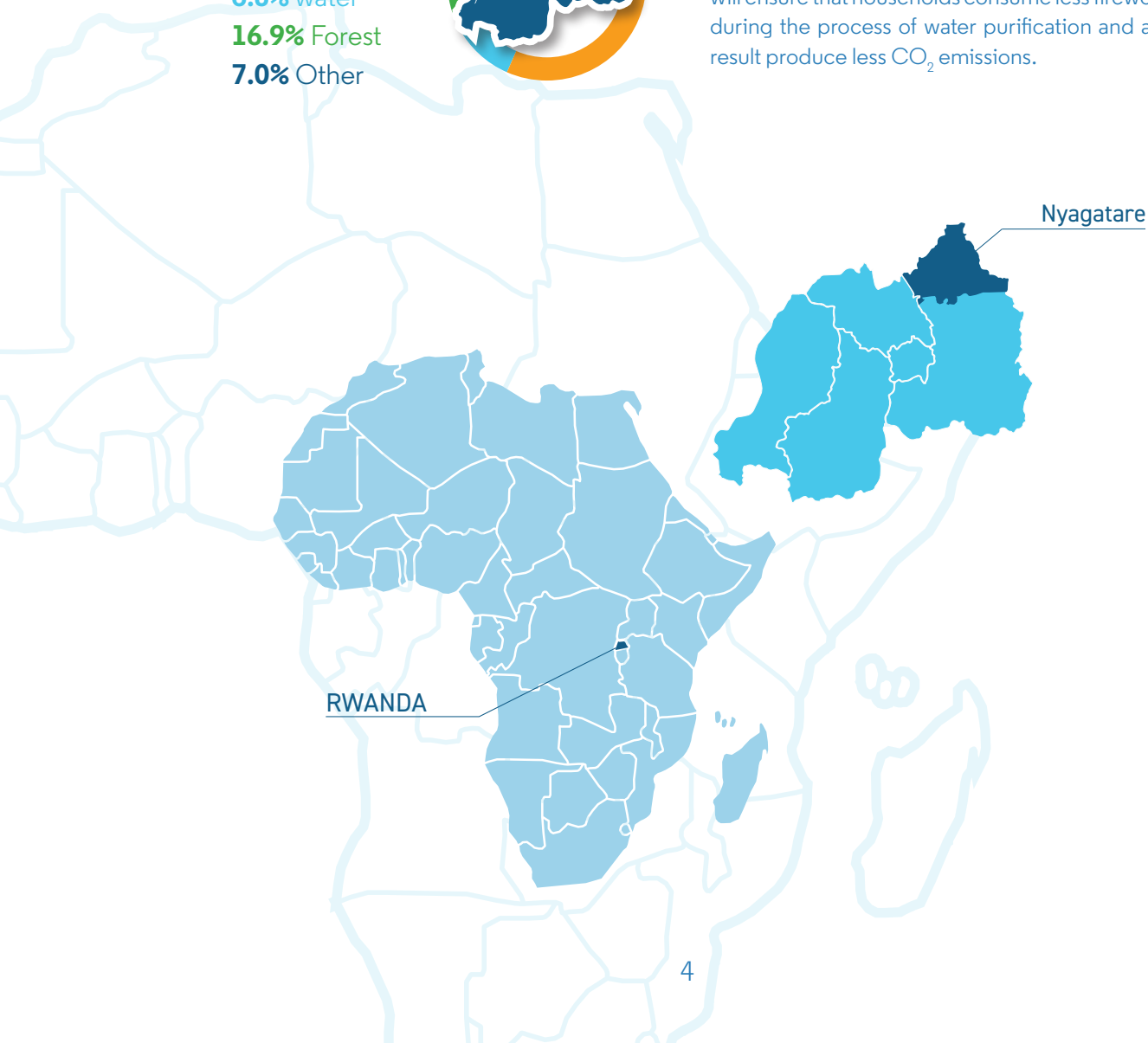
6.3% water

16.9% Forest

7.0% Other



To tackle this problem CO2logic supports projects that provide safe and clean water to hundreds of households in the Rwandan community of Nyagatare. By providing safe water, the project will ensure that households consume less firewood during the process of water purification and as a result produce less CO₂ emissions.





REHABILITATION OF WELLS

The main objective of the project consists of repairing damaged wells as well as drilling new ones and maintaining them in the long run. These wells provide clean water that can be accessed through a borehole. To make sure it's safe for consumption, the water is regularly tested beforehand



CLIMATE BENEFITS

Firewood is being collected from the nearby forests, which puts a lot of pressure on the ecosystem. Besides the sequestration of CO₂, forests provide a lot of valuable resources to the Rwandese communities.



IMPROVING LIVELIHOODS

Health improves due to the awareness and better access to safe water, but the project also improves health conditions at home. Before the well construction, water was boiled on firewood stoves in order to purify it, this brought a lot of respiratory illnesses due to indoor air pollution that especially children are vulnerable to. Access to a well also saves a family a lot of time and money.



REHABILITATION OF WELLS

THE PROJECT REPAIRS DAMAGED WELLS AND MAINTAINING THEM IN THE LONG RUN

The project is for and by the people of Rwanda, wells are build and maintained by local people. The WASH (WAter, Sanitation and Hygiene) committee is a local initiative to involve everyone.

The WASH trainings involve the local community to increase awareness.

Reunions are held in villages during which Q&A sessions, role games and explanations are given concerning the following themes:

- Disease transmission risks;
- Positive effects of hand washing;
- The usage of pit toilets;
- What are the clean and dirty water sources, and how to keep water clean;
- Keep the food and utensils clean;
- Good health and clean environment go together.

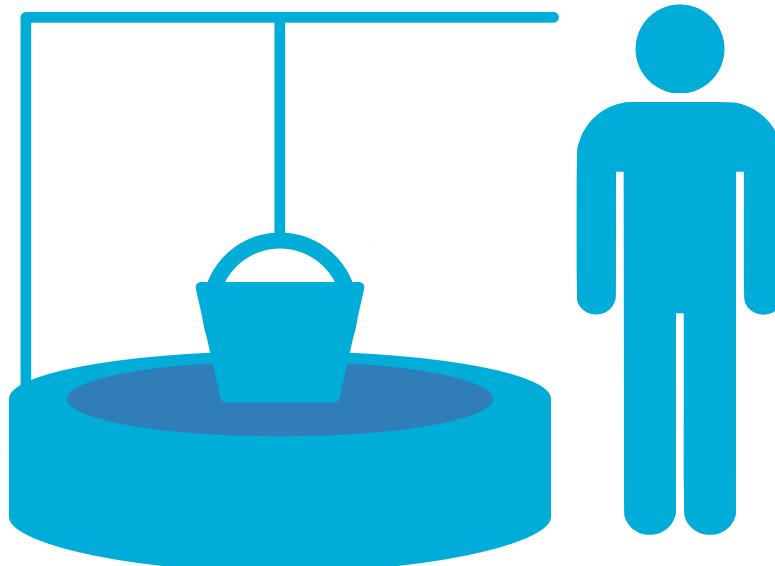
Managers are trained locally for maintenance and protection of the wells.

They make sure surroundings of the well stay clean and protected against animals or vandalism.

Testing water regularly.

To assess if it's safe for human consumption, water is tested often and hold against high safety standards.

6 CLEAN WATER
AND SANITATION





CLIMATE BENEFITS

13 CLIMATE ACTION



HOW WATER WELLS SAVE THE FORESTS OF RWANDA

In the project area local people typically use wood fuel on inefficient three-stone fires to purify their drinking, cleaning and washing water. This process results in the release of greenhouse gas emissions from the combustion of wood.

Through the implementation of safe water solutions such as the rehabilitation of new boreholes, there is no need to purify water for drinking, cleaning and washing. This leads to a reduction in wood consumption and as a result to a reduction of greenhouse gas emissions.

Most of the firewood gets collected in the nearby forest, which puts a lot of pressure on the ecosystem. Preserving the forest also preserve the biodiversity, safeguards environmental services, prevents soil erosion, landslides and so on.





IMPROVING LIVELIHOODS

WATER BRINGS LIFE AND MUCH MORE

The burden of collecting crucial household resources falls disproportionately on women. With the help of this project, they save a lot of time that can be used for other income generating activities, education or to spend more time with family.

Health also increasing since less contaminated water is being consumed due to the wells, the WASH awareness campaigns and the trainings. The project has also resulted in a decrease in respiratory illnesses by the avoidance of indoor air pollution that would have been caused by the burnt wood when purifying water.

A stakeholder engagement process for the project in the Nyagatare district has been put into place, ensuring that communities value and endorse the project.

3 GOOD HEALTH
AND WELL-BEING



IMPACTS OF THE PROJECTS



The Gold Standard certification body checks the impact of the project throughout its lifespan, both in terms of greenhouse gas emissions reduction and several other co-benefits. In order to do so, a lot of data has to be collected on the spot, such as the quantity of wood used to boil water if the project didn't exist, the number of people positively impacted by the project, etc. This data is collected by independent researchers, according to specific criteria defined by the Gold Standard.

Each level of the project allows important CO₂ reductions & creates many co-benefits for the local population, in line with United Nations Sustainable Development Goals.





THE PARTNERS

WE WORK TOGETHER



RWANDANS4WATER

local NGO

RWANDANS4WATER Ltd is a social enterprise providing project management services for efforts in Environment, Water, sanitation and Hygiene (E-WASH), and are the local partner in the Rwanda water project.



Project Partner

CO2logic is an independent and international consultancy office specialized in calculating, reducing and offsetting CO2 emissions. CO2logic cultivates climate protection projects in developing countries around the world.



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CLIMATE IMPROVEMENT



Avoid pollution inside homes



Reduction of carbon emissions



A preserved ecosystem

BETTER HEALTH



Disease reduction



Hygiene improvement



Nutrition improvement



3 GOOD HEALTH AND WELL-BEING



6 CLEAN WATER AND SANITATION



CLIMATE

HEALTH

PRESERVATION

ECONOMY



Less burnt wood



Leading to less deforestation



Limitation of soil erosion



Preservation of biodiversity



NATURE PRESERVATION

Leading to gender equality



Decreasing fuel costs



Rehabilitated infrastructure



Saving time



ECONOMY & EMPLOYMENT



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 CO₂ emissions that can currently be reduced, and each remaining ton of CO₂ 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 CO₂ 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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