

## Project Overview:



### Energy-efficient Cooking Stoves

#### Situation in the rural area of the southern provinces

Most of the inhabitants of the Southern Province of Rwanda have no or only rare access to an improved electricity supply structure. For the population it is therefore common, to cook on traditional open fireplaces using wood or coal. This causes an extremely high deforestation rate and has a strong impact on the local ecosystem.

The collection of firewood requires a lot of time and effort. The smoke emissions from the open fireplaces inside cause considerable health problems, especially for women and children. At the same time, the use of water which is often contaminated with pathogens represents an additional health burden. The aim is to face these two challenges with the construction of 6,000 cooking stoves and the distribution of 6,000 water filters.

#### Benefits of the energy-efficient cooking stoves

With the energy-efficient stoves, the families consume about 45 percent less firewood or charcoal compared to traditional fireplaces. The reduced need for wood counteracts deforestation and shortens the time spent searching for wood. The higher efficiency saves up to 23.5 percent of cooking time. This enables people to concentrate on other activities. In addition, the energy-efficient cooking stoves reduce the development of smoke and the health burden on the respiratory tract and eyes.

The water filters used within the project provide clean and safe drinking water and therefore improve the health situation. The water filters substitute the boiling of water and further emissions can be saved. However, these are not taken into account in the calculated emission savings as they are difficult to calculate. Both the water filters and the cooking stoves are built locally by cooperatives and are installed by village experts together with the families. In this way, the project contributes to poverty reduction by creating jobs.

Name:	Energy-efficient Cooking Stoves
Category:	Energy-efficiency
Location:	Gisagara, Nyamgabe, Muhanga and Rusizi Districts in Rwanda
Partner:	Rural Development Interdiocesan Service (RDIS)
Standard:	Gold Standard for the Global Goals
Savings:	173,000 t CO <sub>2</sub> (in total)
Duration:	2018-2028
Status:	Certificates since 2020

Contribution of the project to the 17 Sustainable Development Goals of the UN:



Link to our partner organization: <https://rdis-rwanda.wordpress.com/about/>