



## Household rocket stove

Rocket lorena stove is a new stove in Kenya, introduced by GTZ PSDA in Keumbu Division, Kisii District. Experience by GTZ Energy Advisory Project, promoting similar stove since Jan 2005 in Uganda, shows that the stove saves up to 60% firewood compared to the three stone fire place. This is a wood-burning stove, which optimizes heat transfer from the stove to the cooking pot and maximizes combustion efficiency. It can be constructed as a mobile unit or can be fixed in the kitchen by a trained stove builder. The stove is designed for household use and is suitable for both large and small families.

The stove can be made by using:

- Red sticking soil with dry grass or saw dust
- Clay or antihill with dry grasss or saw dust
- Fired bricks

It is important that a trained stove builder is available to construct the stove. Builders can be accessed through the Divisional Agricultural Office in the areas where the stove has been introduced. Piloting was done in Kisii to help develop a strategy for promoting the stove. The experience in Kisii since May 2006, shows very good reception by the community and a significant firewood saving and smoke reduction. The project will collaborate with interested actors in the field to promote the stove further especially in areas where Jiko Kisasa is not being produced or easily available. Alongside the household rocket stove there is also institutional rocket stove and improved firewood baking oven which are being promoted.

### Advantages:

- The stove has a 60% potential savings on firewood
- Cooks very fast
- Enhance kitchen cleanliness
- Easy to light without blowing
- Rocket stove gives clean burning and reduces significantly the amount of smoke in the kitchen.

### Promotion of Private Sector in Agriculture

#### Partner Organisation

Ministry Of Agriculture

#### Funded by

DGIS ( Netherlands)

#### Duration

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(1st Phase)

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#### Fields

Household stoves  
Institutional stoves  
Firewood baking oven



The stove operates without smoke

## Achievements

- In Keumbu Division where the stove has been piloted, 9092 rocket stoves have been built in 6 months.
- The stove has received a very good reception and people not use 3 stones anymore.
- The rocket stove is available for household and institutional use at very reasonable price. Institutional rocket stove costs max. of Ksh. 160,000 for 300 ltr pot which include construction materials, labour, pot and lid.
- Double deck baking oven costs up to Ksh. 150,000, which can vary depending on the material prices.
- At Elluyha Sec School in Webuye, where the first baking oven was built, the school is baking 150 loaves of bread and 500 scones daily for the students and sale to the neighbours.
- The school has reduced firewood consumption from 1 trailer for 2 weeks to 1 trailer for 5 weeks for cooking.
- 9 technicians have already been trained on how to construct the baking oven and institutional rocket stove.
- A total of 7 institutional rocket stoves have been built in various schools.



Institutional rocket stove at Nyamnina Pr. School in Sauri Millenium Village – Yala



Firewood baking oven at Eluuya Sec School - Kimilili

## Forward Outlook

- The project will provide technical support to construct institutional rocket stove to 36 schools in Sauri Millenium Village
- The project is constructing an institutional rocket stove at Langata Women prison in Nairobi.
- The project is constructing a firewood oven at Langata Women Prison for baking activities to enable them bake their own bread and also as an income generating activity.
- Ensure that additional skilled and certified people for construction are available.



Eluuya Sec School shop selling bread and scone



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