

*Title with Stoves name and photo, like the earlier edition*

## 1 Pot Rocket Lorena Uganda

### Type

Household rocket mud stove with one saucepan cavity, without chimney.

Inbuilt or mobile

### Names

Shielded Fire (Uganda + Kenya)

### Fuel

Fuel wood

### Country of Origin/Dissemination Area

Uganda, initiation November 2004.  
150,000 stoves disseminated until Dec. 2006 in Bushenyi and Rakai districts.

Kenya, Kisii District, initiation May 2006.  
7,800 stoves built by October 2006

In both areas a coverage of ca. 70% of the households achieved.

### Users

Rural, peri-urban households

Often used complementary to 2 Pot Rocket Lorena -as stand alone to cook small portions or in combination with the 2 Pot Lorena for bigger events.

### General Description

Semi-massive mud stove with

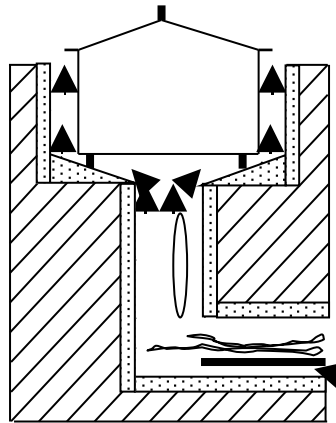
- one pot hole, no chimney
- single fuel feed and combustion chamber.

- Rocket principle with shelf for firewood, high burning chamber, inserted pot.

Pot hole customised for pot diameter not exceeding design pot. This diameter correlates with saucepan capacity.

Circular cross section, overall sizes dependent on pot diameters. Average size: diameter: 50 cm, height 60 cm .saucepan has capacity of 5 - 10 litres

Average live span 2 years



### Materials used

Built of an insulating clay mixture. Well binding mud mixed with organic material like chopped grass, sawdust or chopped dry banana leaves as a homogenous block.

### Efficiency

Saves up to 50 – 60% of the firewood that would be consumed using the three stone fire stove if used in a proper way.

### Production / Supply

It is produced by local artisans that are trained and supervised by local monitors.

The stove builders live in the villages and are directly contracted and paid by the users.

The stoves can be built in the demanding Households or are fabricated in a small production centre. Transport of the heavy stoves is delicate.

No sophisticated tools are necessary but appropriate binding clay soil.

Simple, efficient quick guide for appropriate measurements is available.

1 stove builder can produce an average of 300 stoves / year.

### Price (2006)

In Kenya the average price is 2 US\$

In Uganda, it is 1 – 12 US\$



- + Efficient, cheap stove.
- + Gained very quick very high acceptance
- + Income generation in the villages through use of locally available material and the employment of local stove builders.
- Only applicable where the appropriate clay soil and organic material is available.
- Wear and tear especially in fire chamber and also at the potrest where heavy stirring is a cooking habit (Ugali).
- Regular maintenance needed.
- The dissemination system with trained local stove builders needs a quality monitoring system that has to be maintained for some time.

### Available documents:

- Ministry of Energy and Mineral Development (Uganda), Energy Advisory project: How to build the improved Household Stoves – A construction Manual for the Rocket-Lorena and the Shielded Fire Stoves. <http://www.energyandminerals.go.ug/DOCS/HOUSEHOLD%20Stoves%20Construction%20Manual.pdf>

Source of pictures:

*Energy Advisory Project, Uganda*  
German Technical Cooperation (GTZ)  
Energy Advisory Project  
P.O. Box 10346, Kampala, Uganda

[philippe.simonis@gtz.de](mailto:philippe.simonis@gtz.de)

### Strengths and weaknesses

<b>GTZ-Logo</b>	<i>Adresse HERA</i>  <i>Also Uganda? And Kenya??</i>
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