

Rocket Lorena Two-Pothole Stove



Why to choose this solution?

The Rocket Lorena stove uses 50% less firewood compared to a three-stone cookstove. It cooks faster, since the fire is confined inside the stove, and produces less smoke. It is also easier to use than a three-stone fireplace, since the air inlet built into the stove eliminates the need to blow at the flames to keep the fire burning. It is safer to use, and it is affordable, since locally available materials are used. It also retains heat for a long time after cooking.

Savings per day or production:

According to Mrs. Mayanja Eva (a user trained by JEEP), the rocket Lorena stove uses 4-6 pieces of firewood for one to have a complete meal cooked. It saves energy and time because it has two potholes compared to the traditional (open) 3-stone fire stove. The Rocket Lorena stove is safe because, when it is made, an insulator i.e. dry grass is used, which creates air pockets. Hence, when cooking this prevents heat loss.

Cost in money and in own time to construct:

It costs between USh 20,000 - 30,000 (USD 5-8) to construct.

Lifetime:

4-6 years, unless it is left in rain or wet conditions.

Maintenance needed:

Any cracks must be repaired.

Resources needed in use:

Fire wood.

Problems and limits:

Produces smoke if constructed with no chimney.

Where and how can you get it or make it?

Skills needed to produce, install, maintenance, use:

Production needs a skilled/trained potter and maintenance and use needs a short introduction only.

How to use it:**How to maintain it:****Climate effect (if any):**

Saves 50% of emissions, about 1.5 tons carbon-dioxide equivalent/year if saving is 2.5kg wood/day and there is deforestation in the area Keeps heat for a long time.

Where it is used and how many users are there?

It is used in Uganda in over 73 districts in both urban and rural areas.

Why is it successful?

It is made using locally available materials.

If you can make it, a short description, typical problems, materials needed:

Needs a skilled potter to construct using anthill soil, dry chopped grass / saw dust, water, and moulds.

How to make it (if possible):**How is it delivered and by whom?****Successful financial model****What policies and strategies helped the success?**

NGO programs and support from development partners in training sessions.

More info:

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Sources:**When was the case uploaded?**

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*Case from Catalogue of Local Sustainable Solutions
in East Africa. Read more and see partners at
localsolutions.inforse.org*