

Awarded technology

In June 2006, ProBEC together with the US Aprovecho Research Centre was granted one of the renowned Ashden Award for Sustainable Energy for the adaption and dissemination of the innovative and clean Rocket Stove technology in East Africa.

Advantages of a Rocket Stove

- LESS WOOD CONSUMPTION
 - Saves money
 - Saves time
 - Saves trees
- NO SMOKE EMISSION
 - Less health problems
 - Cook inside without a chimney
- INSULATED COMBUSTION CHAMBER
 - Highly efficient combustion
 - Fire can not harm the cook
 - Cooking goes faster
- WORLDWIDE PROVED TECHNOLOGY
 - Produced in Malawi



**Programme for Biomass
Energy Conservation**
in Southern Africa



Department of Energy Affairs
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ROCKET STOVE The Energy Efficient Cooking Stove



Advanced cooking technology

The new ROCKET STOVE technology is the solution to prevent people from paying too much money for cooking fuel. The Rocket Stove is a wood combusting stove for all kitchens that rely on biomass fuels, i.e. for cooking in a family as well as for large scale cooking like in schools or big companies.

Due to the special design of the Rocket Stove and the use of high quality materials the combustion in the stove is almost complete. It consumes very little firewood and has almost no harmful smoke emission. That means that not only money is saved but also the health of its users is protected. As the heat is used more efficiently, cooking goes faster compared to the three-stone-fire.

Furthermore, by using less wood the Rocket Stove also helps preventing deforestation, which is becoming a bigger issue in many regions of Malawi today.



Saving money

The Rocket Stove has proved to use 50-95% less firewood than the traditional three-stone fire. This is of importance as prices for fuelwood rise due to increasing scarcity of wood and long ways of transportation. Therefore, high expenses for fuelwood can be avoided using a Rocket Stove.

For example, thanks to the Institutional Rocket Stove, Lauderdale Tea Estate in Mulanje, Malawi, has reduced their need of firewood per 100 litre pot of Nsima from 170 kg to 14 kg of wood.

Due to the high quantity of saved firewood and expenditures, acquisition costs are paid for itself in a very short time. This is not only of relevance for institutions and large scale cooking, but also for small households, which sometimes spend up to half of the daily money they have at their disposal on fuelwood for cooking.

Guaranteed quality

The Malawian Department of Energy Affairs (DoE) and ProBEC (Programme for Biomass Energy Conservation) ensure high quality standards in the Rocket Stove market as they train and monitor producers. Only quality producers get a certificate. Each Rocket Stove from an approved producer gets a registered serial number and is sold with a certificate that proves quality. All certified producers grant a warranty to their customers.



Variety of different Rocket Stove types

Rocket Stove type	Pot volume in litres
Household size (single pot)	3 – 20
Household size (double pot)	3 – 20
Restaurant size (double pot)	10 – 50
Institutional size	50– 300
Geysers (Hot water heating)	200

