



BE ENERGY SMART

USE A ROCKET STOVE



ROCKET STOVE INFO GUIDE



DEPARTMENT OF ENERGY
MINISTRY OF CLIMATE CHANGE & ADAPTATION
VANUATU GOVERNMENT



WHAT IS A ROCKET STOVE?

Also called a Jet Stove, a Rocket Stove is an efficient and hot burning stove using small diameter wood fuel. Fuel is burned in a simple combustion chamber containing an insulated vertical chimney, which ensures almost complete combustion prior to the flames reaching the cooking surface.

Wood fuel is the oldest form of extracting heat energy and is still the most popular form of energy in the Pacific. However, because it is so readily available, we tend to use wood fuel inefficiently.



COMPARISON OF COOKING METHODS

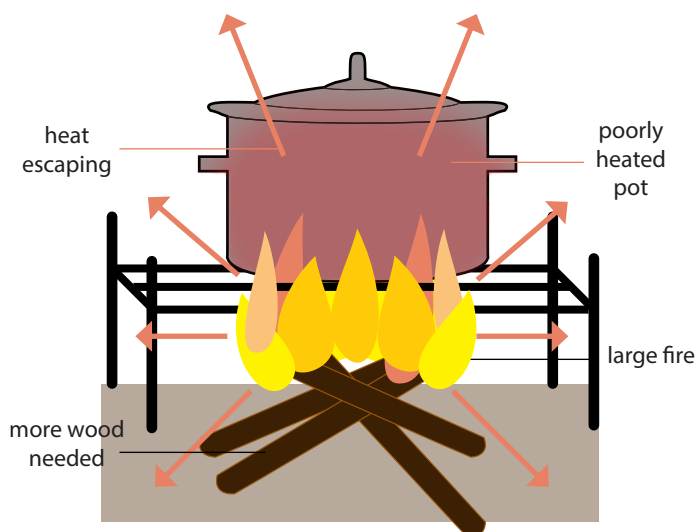
One may ask, how is the method of traditional cooking inefficient?

In a traditional open fire approach, the combustion (burning) process is being affected by some factors which decrease the efficiency of the whole process. See diagram below to learn more about these factors.

On the other hand, we have the “Rocket-stove Technology” which addresses all the issues with regards to the traditional approach. This technology was in fact designed to replace the traditional approach and provide a better way of using fuel wood. Some of its characteristics are specified in the diagram below.

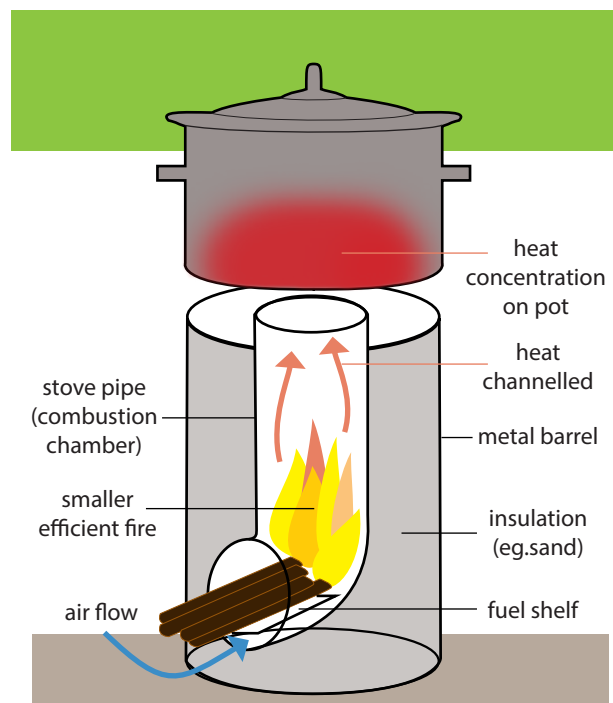
TRADITIONAL FIRE

- **Inefficient Combustion Chamber:** combustion exposed to surrounding air, causing the heat to spread out rather than focus on the pot.
- **Black smoke or Incomplete Combustion:** a lack of oxygen to complete the combustion process, causing black smoke & causing heat loss.
- **Inaccurate Heat Focus:** when the pot is placed too low and the flames come up the side of the pot. Also makes more soot on the pots which means more cleaning later.
- **Excessive fuel required:** since a large amount of energy is wasted into the air, more fuel is required to compensate for the loss.



ROCKET STOVE

- **Stove Pipe:** means less external interferences on the fire such as airflow. A proper channel of heat to focus on the bottom of the pot as well as providing a minimal entry for sufficient oxygen.
- **Minimal Fuel Required:** almost 85-95% of the heat produced by the fuel is concentrated onto the pot, therefore less fuel is required.
- **Insulation:** this makes sure the heat produced is not passing through the sides of the stove.



Therefore, as demonstrated above, the ‘Rocket stove’ technology is clearly a much efficient and cost effective way of cooking our food at home.

WHERE CAN I GET A ROCKET STOVE?



"One of Vanuatu's pioneer in Rocket Stove development"

Make a change today buy investing in a "Rocket Stove" for your home.

Mr Gibson,
Fres Wota 3
☎ (678) 541 9665
✉ gilbertandjill@gmail.com



NEED MORE INFO?



GOVERNMENT OF VANUATU

Department of Energy
PMB 9067
Ministry of Climate Change & Adaptation
Meteo Complex, Nambatu Area, Port Vila

☎ (678) 25201/33425
✉ mepsladmin@vanuatu.gov.vu
🌐 www.doe.gov.au