

By generating electricity whilst cooking with the Power Stove, health, education and income will benefit the rural poor.

The Power Stove aims to reduce firewood by 50% and generates electricity and we aim to distribute install and maintain the stoves. We supply alternatives to the open fire 3-stone cooking method with community driven efforts that address environmental threats on local scale within the Western Kenya by using alternative energy and construction materials. In Kitinda, East Bukusu, and Khalaba in Western Kenya, the villagers expressed the desire for cheaper fuel.

The project will help reduce the destruction of trees, remove harmful smoke and supply electricity to the remote regions for lighting and : - Charges phones, tablets, smartphones and rechargeable batteries

- Capable of supplying power up to 20 LED bulbs.
- Capable of charging two smartphones simultaneously.
- Allows charging and illumination both at the same time.
- Powers USB devices and low-power devices at 12V like radios, small LED TVs, fans, etc.

Currently, there are NO cooking stoves that can generate electricity that are manufactured in large volume. There are hundreds of designs for better cooking stoves, but their uptake is small (in the low millions world-wide). There is talk within the USA to provide higher efficiency stoves that generate electricity using thermo-piles.

Power jiko uses the phenomenon of thermoelectric technology that converted to electricity. This highly innovative product is robust and potentially cheap to make. When combined with the ACON network that can convert an expense for Biomass into an income generating source and can resolve economy of scale issues, it makes a formidable combination for a successful business.

Power jiko allows villagers to run micro projects through



the village political structure. Stoves surveys have shown, better social mobility, a 50% wood saving, improvement to health, by reduction of smoke inhalation and education due to better lighting and access to media such as radio. Villagers generate income from selling the electricity to neighbours, for example to charge mobile phones and save money by not needing to buy paraffin for lighting.