

## **Aniga Energy Efficient Cookstoves**



### **Why to choose this solution?**

The Aniga cookstoves are efficient, affordable, and have been improved to reduce their average wood consumption, which will in the long run reduce deforestation. More immediately, with proper venting, it reduces dependence on and health damages from open-fire cooking, which otherwise often subjects women and children to bouts of coughing and eye irritation.

### **Savings per day or production:**

The stove uses around a third of the wood consumed by a traditional cooking fire. It saves up to 50% of the fuel.

### **Cost in money and in own time to construct:**

The stoves are sold at a price between KSh 1500 - 2000 (USD 15 - 20).

### **Lifetime:**

10 years.

### **Maintenance needed:**

Repair of the clay liner as needed.

### **Resources needed in use:**

Fuelwood.

### **Problems and limits:**

The stove produces some smoke, therefore good ventilation is needed in the kitchen.

### **Where and how can you get it or make it?**

It is available at Aniga Community Based Organization (CBO) in Seme sub-county, Kisumu County, Kenya.

### **Skills needed to produce, install, maintenance, use:**

Production of the stoves requires training in stove production, done by Carbon Zero (Kenya). Use of the stoves requires only a short introduction.

### **How to use it:**

To be added.

**How to maintain it:**

To be added.

**Climate effect (if any):**

The use of stoves reduces carbon emissions and saves about 50% of fuelwood. Hence, fewer trees are cut.

**Where it is used and how many users are there?**

Used in Kisumu county in Kenya. The introduction started in 2014-16 when at least 1600 were installed by Carbon Zero Kenya facilitated by supporting schemes in sub-counties of Kisumu. In these areas, there is a shortage of firewood, and therefore there is big interest as many families collect the firewood, which takes time.

**Why is it successful?**

Successful because they are affordable, and lower than an open fire in smoke generation. The raw materials are available locally in Kisumu.

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

It is a simple process that involves sourcing sand from the lake shores as well as buying a few bags of cement and the metallic parts. Manufacture involves kneading clay, mixing concrete, and binding these to come up with the stoves.

**How to make it (if possible):**

To be added.

**How is it delivered and by whom?**

The Aniga Women Initiative has more than 50 members, who make energy-saving cooking stoves and sell them directly to consumers at affordable prices. The women have been trained on stove production, marketing, and promotion.

**Successful financial model**

Support for development: Financial support, and training by the UK organisation Global Footsteps.

**What policies and strategies helped the success?**

Effective collaboration among the women in Aniga Women Initiative, and effective collaboration between the Aniga women members and the UK-based international organization, Global Footsteps. Thorough training in stove production and marketing.

**More info:**

<https://anigawomeninitiative.or.ke/shop/environment/cookstoves/> and

<https://global-footsteps.org/index.php/2020/05/04/aniga-women-initiative/> .

<https://co2balance.wordpress.com/2016/06/14/making-it-work-local-community-engagement-and-leadership/>

**Sources:**

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*Case from Catalogue of Local Sustainable Solutions  
in East Africa. Read more and see partners at  
[localsolutions.inforse.org](http://localsolutions.inforse.org)*