

KIDT Briquettes Energy Saving Stove



Why to choose this solution?

Energy saving stove make cooking comfortable and economical as it uses little amount of briquettes fuel with provision to take out smoke through chimney.

Savings per day or production:

Save energy by 60%, 1-2kg of briquettes is enough per day for a normal family.

Cost in money and in own time to construct:

The household energy saving stove cost 1,500,000/=Tshs. To build energy saving stove made of bricks, cement and lime takes three weeks (one week for construction, another week for watering the stove and one week left to dry).

Lifetime:

5 to 10 years without major repair

Maintenance needed:

After 5 years, repair of plastic nylon is needed.

Resources needed in use:

Rice husks briquettes

Problems and limits:

Since Energy saving stove constructed by KIDT is permanently fixed, no flexibility to move it from one place to another.

Where and how can you get it or make it?

It is available at Kilimanjaro Industry Development Trust (KIDT) Moshi- Kilimanjaro in Tanzania.

Skills needed to produce, install, maintenance, use:

Construction require skilled and well-trained artisans.

How to use it:

<https://youtu.be/P0gRFVG5840>

How to maintain it:

N/A

Climate effect (if any):

The stove can reduce wastage by 60% leading to reduced demand for fuelwood. The stove also use briquettes made from rice husks which is renewable resource. The stove save up to 50 kg of wood charcoal per day for a school.

Where it is used and how many users are there?

KIDT build about 10-15 energy saving stove per year and have been building stoves in household and institution for 5 years. More than 1000 people benefiting from the stove.

Why is it successful?

It is successfully because it is useful for household and institutional as it consumes little amount of briquettes compared to traditional stove. It also reduce cooking time and contribute to efforts to reduce deforestation.

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

Briquettes should be used as directed by KIDT officials, avoid the use of large quantity that will result into unwanted high temperature

How to make it (if possible):

<https://kidt-vtc.blogspot.com/>

How is it delivered and by whom?

KIDT conducts training and seminars on importance, how to use and maintaining energy saving stoves. Production of bricks and construction of stove is done by KIDT to ensure quality control

Successful financial model

Cost for construction and maintenance are paid by customer

What policies and strategies helped the success?

Global interest on overcoming deforestation. Tanzania Forest Policy 1997 and Bioenergy Strategy (BEST) 2015 which identify promotion of improved cook stove as a means to address wastage of biomass due to use of inefficient technologies

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Sources:

KIDT- Kilimanjaro Industrial Development

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*