

# Recycled charcoal briquettes in Mozambique ~Affordable and quality energy for all ~

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# Verde Africa, Lda.

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#### About Verde Africa, Lda.



Verde Africa, Lda. is a limited liability company established in 2016 in Maputo, Mozambique.

The company has Japanese and Mozambican investors, and currently holds 9 Mozambican staff and 2 Japanese.



We started selling in April 2017. Verde Africa, Lda. currently yields revenue of 1,368 USD monthly in quarterly average, and have capacity to produce 17 ton per month.

#### What we do



Our work is to produce and sell sustainable alternative for wood charcoal made by recycled biomass



Replace it by recycled biomass

**Briquettes** 



#### **Charcoal Market (Maputo and across Africa)**







### Our product



Solid fuel made with charcoal dust with binder of cassava flour, only locally available materials



**Charcoal dust** 

+



**Cassava flour** 



**Briquette MACAMANENE** 

Macamanene is packed and sold for 1kg, 4.5Kg, 40Kg, 80Kg

#### Reason to use Macamanene



Our customers can use Macamanene without changing their style of cooking or spending a bulk of money as initial cost. They can also save money by using long burning charcoal at lower price.

Same usage Same cooking style

Cheaper than charcoal

**Customers save 38-70%** 



No initial cost

Same stoves and pots

Fire lasts longer

For over 3 hours, save 15%

Cooking energy is part of life style. Reason to shift should be clear to all. We offer customers to understand the benefits by experience as to be a repeater of our product.

## Our ingredients - Charcoal dust -



We choose charcoal dust based on the balance between collection cost and the final product quality.



Collection is done by a company track, and the staff control the quality through direct communication with charcoal sellers

### Who is our targeted customers?



Verde Africa's primary target is local eateries called barracas, then followed by households. It is largely B to C, or to Micro-entrepreneurs.



They are relatively conservative population, though the main drive of the charcoal demand, also cost sensitive

#### How we reach out to the market?



Customer retention is one of the biggest challenge for Verde Africa, as briquettes are new to most Mozambican people. Our strategy to penetrate the market emphasizes personal interaction to understand customers' needs.

#### Local eateries (Baracca)

daily visit with delivery, free sample try-out, chef do Mercado, personal account



#### Households

word of mouth, friends' campaign, Free delivery of the large sack to the customers' house, distributors



We value face to Face interactions with customers with focus on customer retention. Delivery as a way to collect customers' direct feedback as market penetration is not so easy.

### Way forward



Our short term goal is to become financially and operationally sustainable before the end of 2018.

#### **Profitability**

- Cover basic operation costs by sales revenue by 2018 April
- Become financially and operationally sustainable by 2018 December
- Start yielding profit by 2019 January

#### Investment and scale

- Sell 90 ton sales per month in Maputo area (9 times more than now)
- Build our own factory by 2019 June
- Carbonization plant to utilize wood chip waste from local factories



### Production steps



Steps of production is Crush – Mix – Press – Dry. It is labor intensive work, based on subsistent technology.

Crush

Mix

Press

Dry



Remove garbages from Charocal dust. Crush charcoal dust into powder.



Mix the charcoal powder with water and binder (cooked cassava past) with specific mix ratio.



Put it into the screw press machine to form into Briquettes



Sun dry for 7 days, then test and pack.