

# The Beer-Sheba Project: Promotion of fuel-efficient Jambaar stoves (IGC/111801)

**Background:** Deforestation continues to be a major problem in the Sahel and in specific Senegal. At Beer-Sheba, we have been addressing this issue since conception by the protection and management of our forest ecosystem. Recently we have begun to make charcoal from the selective cutting of mature trees and the branches of trees we have pruned for growth improvements. [refer to [www.beersheba.org/2011/04/charcoal](http://www.beersheba.org/2011/04/charcoal)] The Casamance method that we have implemented within our project has consistently yielded a 30% increase in efficiency when compared to the traditional method. Further savings can also be realized when used in conjunction with fuel-efficient wood-stoves (Jambaar) that are by themselves nearly 50% more efficient than traditional stoves. Think of the impact to Senegal's forests by combining the savings from our charcoal and the utilization of these stoves.



Here is our first batch of charcoal in the making utilizing the Casamance method, 30% increased efficiency.

**Opportunity:** We have entered into an agreement with PERACOD ([www.peracod.sn](http://www.peracod.sn)) to market fuel efficient wood-stoves. PERACOD is a joint effort of the German government's development branch and they have been working in Senegal for more than 35 years. Their work in protecting forestry and spurring economic activity as a result has been industry leading. The program that they have taken the lead on is the fuel-efficient Jambaar stoves that are all locally made in Senegal and mass-marketed in many areas of Senegal. We want to improve on this dissemination and see that the rural communities that we work in will also benefit from these substantial savings.

**Financial:** We have already secured a revolving 50% capital vehicle from PERACOD that they will fund based on The Beer-Sheba project obtaining the remaining 50%. Our proposal is to purchase a total of 500 Jambaar stoves. With the 50/50 split we require 1.5 million CFA (\$3000 USD). We already have an immediate market for us to resell these as we have contacted several women's groups in the communities that we work with that are very eager to introduce these stoves to their communities as they realize the potential savings. They will save nearly 1kg of charcoal/day (200 CFA) and at the price we are aiming to sell them at they will have the stoves paid off in one month considering the daily savings in charcoal! We will sell them at a slight margin above our cost price to ensure our expenses are covered and provide for more capital as we expand the program.

**Get Involved:** If you feel that you, or others you know would be interested in this venture we would greatly appreciate your help. Each stove will cost us about 6000 CFA (\$12 USD) to purchase wholesale from a local artisan. We need to secure funding for the whole lot before we can proceed as the manufacturing process will be on a custom order basis.



This is an example of a medium sized Jambaar stove with our charcoal. (note the thick ceramic lining that houses the charcoal) Combined savings of 65%

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