

# Sécurité Énergétique Sécurité Alimentaire (SESA)



## Overview:

SESA is a for-profit social business in Haiti that is equipped to process edible jatropha fruit. SESA will make use of locally grown, edible jatropha plants for three uses: oil, animal feed and briquettes. One hectare of marginal land can produce about 60 gallons of oil. SESA will press the oil from jatropha kernels; use the remaining kernels as a high-protein ingredient for animal feed and the shells, to form briquettes. 20% of SESA's post-tax net profits are to be reinvested into the community.

## Projections:

Capacity: SESA has the capacity to produce 133,000 gallons of biofuel oil, 730 tons of protein meal and 880 tons of briquettes.

Oil: While ultimately, we will be producing biofuel, the first target market for SESA's oil is the Haitian soap industry. 100% of the oil that is used to make soap in Haiti is imported from Malaysia. This represents a 10 million USD market that can remain on the island. Edible jatropha kernels are 47-50% oil by weight and our equipment can extract 87% of this oil content.

Animal Feed: The nutritional profile of edible jatropha-based meal exceeds that of soy meal in all amino acids except lysine. For as little as \$1.50 USD/ton, lysine can be added. What SESA plans to offer contains 21% protein. Other feeds on the market contain 18% protein. This means that by comparison, chickens consuming our feed can reach maturity faster. We plan to sell at a 5% discount of the market rate.

Briquettes: The briquettes that SESA will produce, using the shells of jatropha kernels, can be used in a 1:1 ratio just as wood fuel. We hope to target wood burning dry cleaners and bakeries.

## SESA is located in St. Marc

We are a for-profit social enterprise that will begin producing jatropha oil in the summer of 2013. We are committed to reducing Haiti's foreign dependence by providing high quality local alternatives.

## Environmental and Social Benefit

SESA's use of locally grown jatropha plants, produced on marginalized land, contributes to Haiti's reforestation, reduces erosion and limits landslides.

SESA's operations incite job creation at every step of the value chain, from farm to production to market.

## Partnerships

SESA will be cash flow positive in 3-4 years, with average annual profits exceeding \$350,000 USD. Over the next 14 years, SESA is capable of generating \$3.7 million in net profits.

We aim to support cultivation on up to 10,000 additional hectares of land. To that end, we need partners who are interested in cultivating edible jatropha.

We are looking for individuals in possession of land otherwise unsuitable

for food crops. If you have access to marginal lands, or have a relationship with communities who would benefit from cultivating edible jatropha, please contact us.

Perhaps you are interested in investing in SESA or you would like to find out more.

Please forward all inquiries to CEO Fabienne Jolivert at [Fjolivert@sesahaiti.com](mailto:Fjolivert@sesahaiti.com)