

## PURPOSE

### 1. Construction of a centralized coffee wet mill:

Thanks to the construction of this wet mill, coffee farmers will be able to process their coffee at the same mill under a standardized technology and process control. This will result in an even better coffee quality. Next to the quality improvement, the use of this environmental-sound technology will reduce water consumption with 60% compared to the initial situation. Thanks to this water efficiency, the pressure on the environment will decrease, having a positive impact on water resources and biodiversity. The design includes a water recollection tank, which gathers rain water during the rainy season.

### 2. New system for disposal of waste waters:

The new waste water filtering and processing system will purify the coffee waste waters. Consequently, the waste waters will not go into any river, nor run near the homes of the producers. This will result in an improved health situation and less risks for diseases.

Thanks to evaporation pools where all solid materials will be collected and turned into organic fertilizer, productivity of the coffee plantations can be increased.

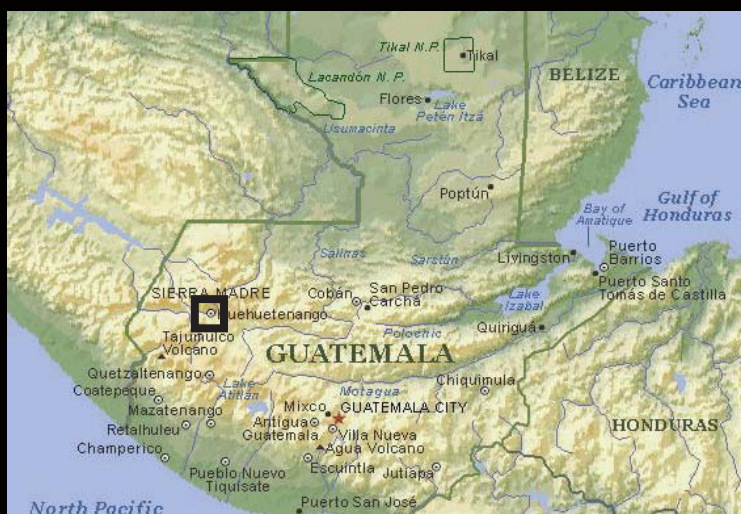
### 3. Construction of a warehouse (51 m<sup>2</sup>):

A proper storage location for the production of the cooperative. This warehouse can store up to 150 quintals (bags of 100 lbs) of dry parchment coffee. When the warehouse is full, the cooperative will hire a truck to transport the coffee to the exporter's dry mill.

### 4. & 5. Training of farmers and improved coffee quality

## TARGET GROUP

Smallholders coffee farmers from 4 communities associated to Cooperative Cruz Grande (see 'Location'); 43 members, of which 37 men, 6 women and 175 children.



## IMPROVED WET MILL FACILITIES OF SMALLHOLDER COFFEE FARMERS

GUATEMALA - approved by the Efico Fund on 15/06/2015

### Location

4 communities (Crúz Chiquita, Canja, Ixkanlupe and Tojnñil), associated to Cooperative Cruz Grande, in Santa Bárbara, Department of Huehuetenango, Guatemala.

### Description

The construction of a coffee wet mill module considers the right technology for small coffee producers, which reduces the water consumption with 60%. Waste water is processed in an evaporation pool and is later on used for organic fertilizer. Thanks to the standardization of coffee processing, improved coffee quality is obtained.

### Project Budget

Budget Total: € 41,085

Efico Fund contribution: € 28,282

### Project Duration

August 2015 to November 2016

2017-2018: Follow-up technician

## PARTNERS

### ANACAFE

National Coffee Association Guatemala  
[www.anacafe.org](http://www.anacafe.org)

- A dynamic organization founded in 1960 to represent and facilitate technical support
- Promotes Guatemalan coffees around the world

### FUNCAFÉ

[www.funcafe.org](http://www.funcafe.org)

- Project applicant
- Private civil society organization, founded in 1994 by Guatemalan coffee producers
- Works to improve the level of human development of the rural population of Guatemala

### Cruz Grande Integral Agriculture Cooperative

- Founded back in 2011
- Provision of field and manpower for the wet mill construction

### EFICO Central America

[www.efico.com](http://www.efico.com)

- Project oversight upon request

### BKI Foods

[www.bkifoods.dk](http://www.bkifoods.dk)

- Danish coffee roasting company
- Funding partner
- Coffee Social Responsibility - High Mountain Micro-roastery

## EXPECTED RESULTS

1) Thanks to reduced water use and clean water, the communities will directly see and feel the benefits in their daily life (cleaner water in the river and less water use). On the long run this will lead to an improved health situation. The training will also focus on training in preventive health.

2) Optimization of coffee knowledge thanks to intensive training on different topics. Additionally, coffee farmers will learn and see that a better control in the coffee processing station will lead to better coffee quality.

3) The knowledge on reworking of solid coffee waste to coffee fertilizers will also create a mind shift amongst the farmers because they will be able to produce efficient fertilizers from the by-products of coffee waste.



# IMPROVED COFFEE QUALITY AND PRODUCTIVITY VIA ENVIRONMENTAL-SOUND TECHNOLOGY IN GUATEMALA

