The Republic of Burkina Faso

GEF Strategic Programme on Energy in West Africa
UNIDO ENERGY PROJECT

Promoting Energy Efficiency Technologies in the Beer Brewing Sector in Burkina Faso

Background

Burkina Faso does not have its own fossil fuel resources and relies completely on their import. The majority of the energy supply in Burkina Faso derives from traditional biomass, mainly firewood and charcoal. The high consumption of firewood is creating an imbalance in the supply and demand for firewood, accelerating desertification and posing concerns for rural development, energy supply and increasing GHG emissions.

Traditional breweries are a significant consumer of firewood, utilizing 1/5th of the firewood consumption in Burkina Faso annually. In Burkina Faso, local beer brewing, the so-called dolo, is a traditional profession that is passed on from generation to generation, from women to women. It constitutes an important source of income for rural and urban women who brew in small scale home-based breweries. There are thousands of these breweries around the country and about 4,000 in Ouagadougou alone. These breweries employ traditional dolo cookers that use considerable firewood as fuel. Traditional stoves have a low combustion efficiency, which results in longer cooking times and as such higher consumption of the firewood. The low efficiencies of the cook stoves can be attributed to incomplete combustion, poor heat transfer from the flame to the jars and massive heat losses to the surroundings. A considerable amount of firewood in the range of 20 to 67 % can be saved through promoting improved stoves.

The project aims at promoting energy efficient industrial cook stoves in the beer brewery sector in Burkina Faso. It will focus on large cook stoves used in beer breweries in the region of the Plateau Central, around Ouagadougou. Other benefits of promoting the improved cook stoves include the reduced concentrations of smoke and greenhouse gas emissions, reduced pressure on forests and related resources, skills development, and reduced costs of production resulting in higher income generation and productivity.

Objective

To promote fuel efficient cookstoves in the beer brewery sector in Burkina Faso.

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Project Components

- Support improved cook stoves technology dissemination and demonstration:
  - Upgrade the technical capacity for designing and constructing improved cook stoves for 100 stove manufacturers.
  - Establish a financing facility for improved, energy-efficient cook stoves.
  - Install over 1,000 improved, energy-efficient cook stoves.
  - Assess the potential for biogas production from agro residues produced during beer brewing.
- Stimulate the market demand through the development of clusters of women beer brewers and the promotion of efficient supply and distribution chains for improved cook stoves.
- Scale-up by establishing national capacity for developing and implementing cook stove projects with carbon financing from voluntary carbon markets.

Executing Partners/Agencies at National Level

The executing partners/agencies in this project are the Ministry of Environment and Sustainable Development and the Institut de Recherche en Sciences Appliquées et Technologies (IRSAT).

Project Budget

GEF – US$ 0.5 million (including PPG and agency fees); Co-financing – US$ 0.73 million

Progress

- The Project Management Unit (PMU) was established.
- A draft project work plan was prepared.
- National Coordination Committee with relevant partners (GIZ, SNV, etc.) was created at UNIDO's initiative.
- 3 focus geographical areas/provinces were identified.
- Financing facility for women beer brewers and improved cook stove manufacturers under development with the Pan African Bank and a local financial institution has been established.
- Cluster diagnostic/ potential to select 2 high beer brewers concentration areas for cluster building and development is undergoing.
- Development of training material for carbon financing is in progress.
- The first Steering Committee is planned for November 15, 2012.

Activities	Timeframe	
CEO Endorsement/Approval	April	2012
Implementation Start	June	2012
Project Closing Date	May	2014

Contact

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