

Promoting commercial improved cook stoves: the need for solid financing mechanisms

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Promoting energy efficient cook stoves for beer brewers (dolotières) in Burkina Faso





The local beer sector has needs and potential for increased efficiency

KEY FACTS	
Design	2-4 pots per cook stove
Capacity	1050 L of Dolo (beer) for 4 pots
Process duration	48 to 72 hours
Wood costs	• CFA 250,000 to 500,000/month (EUR 380-760)
	 3 to 4 tons/stove/month
Cost of Pots	 Ceramic (CFA 2,000 – EUR 3) Aluminum (CFA 25,000 – EUR 38)
EFFICIENCY IMPROVEMENT POTENTIAL	
Energy Efficiency factor	• Ceramic: 45 to 50%
impacting wood	• Aluminium: 60 to 65%
consumption and costs	40.65 t CO ₂ e carbon emission reduction/ cook stove
Payback period	Starting 6 weeks



The brewing of the dolo is a traditional fuelwood-consuming women activity

- Traditional industry and processes
- 100% Female brewers (dolotières)
- Mass concentrations of at least 3,000 brewers in Ouagadougou alone
- 20% of the country's firewood consumption – strong pressure on deforestation & GHG emissions





Today the introduction of energy efficient cook stoves encompasses various challenges...









Training, support & advice enables the dissemination of energy efficient cook stoves

 Training 100 cook stove artisans/manufacturers on improved designs and construction





 Training of beer brewers on cook stove maintenance & operations

 Enforcing quality and standards to ensure performance



Close collaboration with national research institute: IRSAT, GIZ and SNV



2 Dolotières are clustered to stimulate demand for improved cook stove and generate synergies





Access to finance via a four-pillar approach facilitates the dissemination of EE cook stoves





Technical Assistance

A national cadre for developing and implementing cook stove projects will be established

National Carbon Finance Capacity Building

Project Developers

- Training (theory & practice/PDD. Best practices)
- One-to-one coaching & mentoring

Project Operators 50

• Training (simplified on carbon credit and practical use)

Monitoring Entity

- Support to develop appropriate methodology for cook stoves
- Training on practical use of methodology
- Remote support

Interactive platform

- Knowledge sharing between key cook stove carbon finance stakeholders
- Online exchange platform monitoring the PDDs



Carbon finance will be further accelerated through strategic collaboration





Replication and up-scaling potential within Africa





A large variety of traditional food processing technologies have EE potential in Africa





THANK YOU

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BACK-UP





3 Access to finance via a three-pillar approach facilitates the dissemination of EE cook stoves





Thanks to carbon markets energy efficient cook stoves can be further promoted and used

- Train 20 master project developers on Gold Standard project identification and development
- Establish a monitoring methodology
- Train 50 project operators on registration and monitoring requirements
- Establish a platform for interaction between project developers, project operators, DOE,CME, DNA and other relevant stakeholders





4 Leveraging the voluntary carbon market supports the financing of women brewers





Each project component has clear outcomes to ensure the adoption of energy efficient stoves





The project contributes to reduced impact on climate change and improved livelihoods

Reduced impact on Climate Change

- Reduced deforestation in a country where wood is a scarce ressource and reforestation efforts are limited
- Reduced GHG emissions/smoke

Improved livelihoods of women & households

- Improved women health (limited acute respiratory infections)
- Reduced cost and improved production processes leading to increased income generation for women
- Employment opportunities/security for masons and women brewers