



Help to improve community living conditions and preserve wood resources through the sustainable introduction of clean, efficient cooking appliances and fuels.



Improved cookstoves are produced locally, made up of two parts: a clay insert and a metal cage.



Wood is the most widely used fuel (80% of the total).

## BACKGROUND AND ISSUES

- In **Sahelian Africa**, wood accounts for more than **80%** of the fuel used for cooking, generally with traditional, inefficient cooking appliances.
- This has many consequences both for the women doing the cooking and their children who stay close by, and for the environment: **respiratory problems** due to prolonged exposure to smoke, **impact on the household budget** of the cost of an increasingly scarce and valued resource, uncontrolled **deforestation** and so on.
- There are, however, initiatives to promote more efficient appliances and fuels **other than fuelwood**, for example through recycling organic waste, but they remain localized and small-scale.
- To **ensure mass dissemination of improved stoves**, the supply chain needs to be sustainably strengthened. From production to distribution, GERES is improving capacities and product quality, and undertaking extensive promotion amongst the people concerned.

## BENEFICIARIES

- **40,000 families\*** or 320,000 people benefiting from income and health improvements generated by dissemination of the improved stoves;
- **2 production businesses** employing 8 people;
- **30 producers** and assemblers organized into an economic interest group
- **50 appliance distributors**, one third of them managed by women

\* an average of 8 individuals per family

## OBJECTIVES AND PROPOSED SOLUTIONS

The objective for **2016 is to double** the dissemination of improved stoves, i.e. to disseminate 40,000 stoves meeting the required quality standard every year.

After **successful experience in Cambodia** in disseminating improved stoves (2 million in 2012), GERES is seeking to boost the local production and distribution of low-energy cookers in Mali and Benin, using **3 main levers**:

**1) Professionalizing entrepreneurs in the low-energy domestic cooker sector** (producers, tinsmiths and ceramists) by improving their production capacity, the quality of their products (efficiency and quality control) and their business management skills.

**2) Supporting the organization of the value chain**, by increasing synergy between producers and distributors which should, by stepping up marketing in the area, result in large-scale dissemination.

**3) Launching actions to develop innovative funding** (carbon finance, solidarity finance) enable to provide sustainable support for the development of the sector and R&D by enterprises.

## PROGRAMME OF ACTION 2011-2016

### Support for the supply chain with a view to its independence

- 2011 – 2012: full assessment of the value chain
- 2013: professionalization of the artisans; an operational, independent monitoring and quality control system
- 2014 - 2015: organization and development of the enterprises, action research through raising innovative funding
- 2016: sustainable value chain

**Capitalization and networking:** GERES is highly involved in the international dynamic initiated by the **GACC** (Global Alliance for Clean Cookstoves), World Bank and ECOWAS. In this regard, GERES plans to take part in several international events which will provide an opportunity to publicize the activities carried out within the CEnAO project.

### EXPECTED RESULTS AND IMPACTS

#### FOR THE USERS

- **Access to a high-quality product** leads to a reduction in their wood consumption and therefore their energy bills. Their purchasing power increases as a result.
- **Indoor air improvement** in kitchens, thus reducing the health impact on people in the household, particularly children.

#### FOR THE ENTREPRENEURS

- **Job creation and consolidation** at each link of the value chain (with the establishment of 30 additional tinsmiths assembling stoves and the creation of 20 new sales outlets).
- **Improvement of their skills** placing them in pole position in the sub-region.

#### TECHNICAL PARTNERS

- Producers' Economic Interest Group
- Network of 50 artisan suppliers
- Ceramic clay inserts production unit
- Afovert, producer of alternative fuels based on urban waste or agricultural residues
- CNESOLER (National Solar Energy and Renewable Energy Centre) national laboratory

#### FINANCIAL PARTNERS

- AFD - French Development Agency
- ADEME - Environment and Energy Management Agency
- Lord Michelham of Hellingly Foundation
- Prince Albert II of Monaco Foundation
- KfW
- Crédit Coopératif



## WOMEN

- **End users:** as users of the stove, 40,000 women will be the main beneficiaries and become aware of how to save energy and wood.
- **Retailers:** 20 women also manage sales outlets. The support they receive boosts their professional independence (management skills and knowledge of energy-saving).



35% fuel saving  
2-year lifetime  
Price: €5.30

#### WEB LINKS

- © **Video** on the WACCA (West Africa Clean Cooking Alliance) initiative for clean, sustainable cooking energy (in French).
- © **Web documentary** "Spotlight on Wassa, a sustainable cookstove - At the heart of a distribution chain in Bamako." (In French).
- © **Local TV report** in Mali on carbon finance training (learning about a project development lever) - (In French).
- © **Publication** review of a ten-year programme in Cambodia, lessons learned from large-scale dissemination, impact study and procedures for accessing carbon finance.

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