



## Ecological ovens for families



### Rural Village Support Project Eritrea

The project "Ecological ovens" stems from the need to improve the effectiveness of the traditional oven, the Eritrean **mogogò**, making it sustainable and safe for the health of people and animals. The energy performance of the traditional mogogò is less than 10% (it is estimated that it consumes 50% of the Eritrean wood) and there is no fumes collection system, causing respiratory and eyes diseases. The oven is essential in the Eritrean houses as there is cooked the **engera**, the spongy cereal mixed flatbread that it is the daily food of the most of the population.

Eritrea is one of the poorest countries in the world with a per capita income of 1\$ /day. 80% of the population exclusively lives on agriculture and pastoralism. 90% of the rural population and 20% of the urban one has no electricity and the biomass (wood, dried dung and agricultural waste) still represents in the villages 95% of the fuel. Because of the recurring droughts, deforestation and soil erosion there is a permanent lack of food availability. Drought brings famine and the latter malnutrition which affects 50% of the population. Due to military service of all men for an indefinite period, women often remain the only responsible for the family.



### Targets of the project

- Reduce wood consumption by 50% preserving the environment, leaving more time at disposal of the young people for studying, who usually walk for kilometers to get wood.
- Reduce cooking time of the engera, leaving more time available to women to take care of children.
- Reduce the amount of smoke emitted thanks to the different modality of canalizing them outside, thus eliminating the home pollution.
- Improve the home hygienic conditions, eliminating breathing problems, burning eyes and children burns.

### Project beneficiaries

- 30 families in the rural villages involved.

### Project advantages

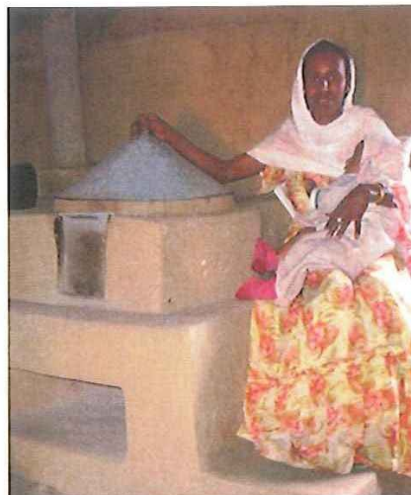
The first advantage is the greater energy performance of the ovens, which leads to lower consumption of wood, less deforestation and soil erosion, with a consequent decrease of the agricultural productivity and an increase in the price of the wood. In addition distances to be walked by women and children, responsible for collecting wood, decrease. The smoke canalization prevents many respiratory and eyes diseases and the improvements on lightning avoid the use of kerosen, expensive and dangerous for children, since the flame is at floor level and often causes burns.

### Intervention modality

The realization of the mogogò has been assigned to a group of women of the village, the workers, trained by expert nuns who perform the construction work together with the landladies.

Landladies must provide clay, stones, water and sand, all material locally available, make briks and help in manual works. The group should take measurements, place molds, erect walls, install grids, the chimney, the damper and the door as well as finish and smooth surfaces.

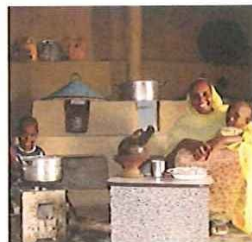
The time construction of a mogogò is of 3 days for a group of the 3 workers aided by the landlady. At the end the landlady is instructed on how to use the mogogò and any maintenance to keep it efficient. A committee village shall control, in the following months, that the landladies use the ovens properly, keeping them clean, with the door closed, the wood in small pieces and the damper set to a correct draw.



### WHAT YOU CAN DO:



From **10\$** you contribute to the purchase of a mogogò to donate to a family



With **220\$** you can buy a mogogò to donate to a family

Indicate the causal donation "Ecological Mogogò project- Eritrea"

### **Gruppo Aleimar onlus – supportship and development projects**

Via Curiel 21/D, 20066 Melzo (Milan - Italy) tel. +39 02.95737958 fax +39 02.95712273 e-mail: [info@aleimar.it](mailto:info@aleimar.it)

Banca Prossima (Gruppo Intesa SanPaolo) IBAN: IT 69 U 03359 01600 100000100565

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