

# ANDREW LEES TRUST, PROJECT ENERGY (ALT PE)



**FUEL EFFICIENCY PROGRAMME FOR SOUTHERN MADAGASCAR ('PROJET ENERGIE')** Funded by Community Fund UK 1999 - 2006 (now Big Lottery Fund) and Climate Care 2004 – 2006.

The project was launched in 1999 to bring fuel efficiency training to women in rural areas of southern Madagascar, in particular to train them to build a fuel efficient stove – the 'Toko Mitsitsy' (TM) – which can produce fuel savings of up to 65% whilst also reducing the amount of time spent by women searching for wood, or family income spent purchasing wood.

**The fuel efficiency project was set up to respond to poverty and environmental challenges in relation to collecting domestic fuel in Southern Madagascar (women may have to walk up to a day to collect firewood) and the increasing pressures that local fuel needs place on remaining forest resources.**

ALT launched its first fuel efficiency programme in 1999 to train women in the rural areas to build a simple fuel efficient stove - the 'Toko Mitsitsy' (TM).

## **Principle Results 1999 – 2006:**

- 36,839 TM built as a result of ALT trainings
- 85% of TM stoves were constructed after training
- 230,224 direct beneficiaries (36,839 x 6.25 average size of Malagasy family)
- Over 5,080 trees planted by stove families.
- 52 radio programmes broadcast
- 59 TM villages received solar/clockwork radios

## **Savings:**

- Up to 65% savings in firewood use
- Up to 70% savings in cooking time
- Up to 60% costs savings in purchase of firewood
- 2.6 tonnes of wood saved per TM/year
- Up to 70% savings in time spent tending the fire
- Emission savings of 4.3 tonnes of CO<sub>2</sub> per TM/year
- TM is easy to use and accepts a variety of fuels eg maize husks
- TM can boil water in a quarter of the time of traditional open stoves
- TM reduces the number of visits a woman makes to the forest to collect fuel.

## **Additional social benefits:**

- Time saved collecting fuel has afforded women more time for income generating projects
- Decrease in respiratory diseases and household burns/accidents

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