Honduras Micro-Enterprise Stove Project

Improving Indoor Air Quality in Honduras – A Market Based Pilot Project for Increasing Use of Safer Cook stoves



A Collaborative Project of :

- Trees, Water & People
- Aprovecho Research Center
- The Honduran Association for Development (AHDESA)
- University of Illinois Urbana-Champaign
- Iowa State University
- UC Berkeley
- Colorado State University
- Catholic University Tegucigalpa



Funded by

United States Environmental Protection Agency's Partnership for Clean Indoor Air
Rotary Clubs and Rotary International
Weyerhaeuser Family Foundation
Trees, Water & People



Project Goals

- Raising consciousness of the Honduran people of the dangers of indoor air pollution
- Design and build clean & affordable cook stoves for Honduran families
- Create stove building micro-enterprises
- Reduce indoor air pollution
- Improve the health of women and children
- Reduce deforestation for fuel wood
- Provide economic relief to low income families
 Study emissions of traditional stoves versus our improved stoves



Project Objectives

Develop three stoves for the Honduran market

- Select and train 4 craftspeople (metal shops and brick makers) to produce the improved stoves
- Select and train 26 vendors to sell cook stoves in public markets, bus stations, and shops
- Provide funding to build and sell 720 stoves
- Assist with marketing of stoves through training of producers and vendors
- Promote stoves via radio, printed materials, fairs, and training workshops
- Take emissions data in 50 homes



Anticipated Outcomes

Stove Designs at Varying Prices 720 stoves built and sold 3600 Project Beneficiaries 90% reduction in exposure to toxic gases with Super Rocket and EcoStove 50% reduction with Rocket Stove ■ 50 – 70% reduction in fuel wood use



Activities to Date

Emissions Study

Dr. Tami Bond and Chris Roden of University of Illinois start emissions study – July 2004

- Purchase and assemble emissions cart in Tegucigalpa
- 2) Train AHDESA staff and Catholic University students to take emissions measurements
 - Take data in 24 houses
 - Preliminary Analysis of data



3)

Stove R & D

- Aprovecho Stove Consultants Design Rocket and Super Rocket Stoves
- Select Spanish Names for Stoves:
- Rocket *EcoLena*
- Super Rocket EcoBarril

Metal Justa - EcoFogon





Rocket Stoves – EcoLena





Super Rocket - EcoBarril









Stove Demonstration at Public Market





Farmer's Market - Tegucigalpa







EcoStove

Rocket Stoves







Stove Producers

Ricardo Cruz – EcoStove
FUHRIL
AHDESA
EcoBarril and Rocket
Pedro Franco
Ceramic Rocket





This Year's Activities

Train Stove Producers Start Production of 720 Stoves Select and Train Vendors Start Marketing of Stoves Continue Testing Stove Emissions – UIUC Begin Health Study - CSU Continue Improving Stoves – R & D Test and perfect self-insulating bricks

