

Eco housing

Provision of safe water and cooking systems

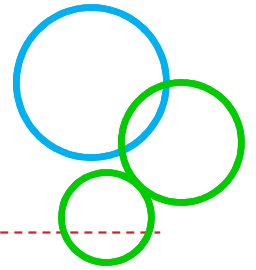


Introduction

- ▶ STRO is a dutch NGO working in Honduras since 2003
- ▶ STRO seeks for economic and technological innovative models that promote **local economic development**, using at the foremost possible local resources to revitalize the local market.
- ▶ STRO Foundation was created in The Netherlands in the 70's (initially focused on environmental sustainability)

- ▶ Mission:
“to investigate, implement and generate awareness on the potential of innovative sustainable economic structures ,designed to serve the needs and interests of the local economy”.

The rain water harvesting system



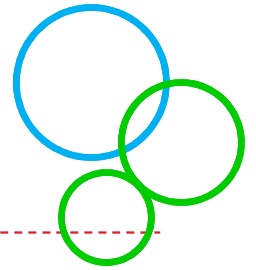
- ▶ The contractor who built the system was locally trained by a certified national institution, and has now successfully replicated the model.



- ▶ Building time was 1 week
- ▶ Users say that the water tastes very nice and feels very cool.
- ▶ The tank can serve a 8 member family up to a year
- ▶ It can be an additional income source in times of water scarcity.
- ▶ A pump or motor might be placed to pump the water up the house.



The eco stove:



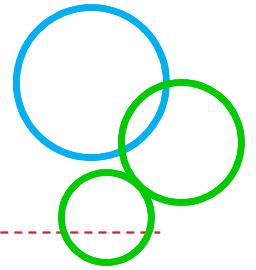
- ▶ The “ecofogón justa” works both as a stove and an oven at the same time
- ▶ Its construction is very participative in terms of non qualified labor, women and children are encouraged to participate.



- ▶ Building time is 1 day.
- ▶ The sizes are variable.
- ▶ It spends less wood and emits less smoke than a traditional outdoors stove
- ▶ It gains heat faster than a conventional outdoors stove.



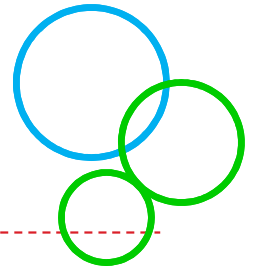
Training for local construction workers.



- ▶ The techniques for ecological provision of basic services for social housing are of easy learning and replication by the local construction workers, who later may form networks and diversify their offer, generating more income.



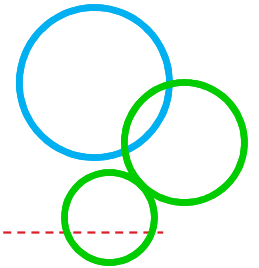
Benefits verified through the project



- ▶ Construction costs are lower through the use of local constructors.
- ▶ Training, dissemination and replication of new techniques of ecological elements for local population and contractors.
- ▶ Raise of awareness and local interest by demonstration.
- ▶ Networking for future replication of ecological elements
- ▶ Improvements on water quality and less pressure on natural sources
- ▶ Less smoke emission and less use of wood through the eco stove.
- ▶ Research and dissemination of knowledge and experience through the web page of the project.
- ▶ Training of the local construction sector.



Benefits verified through the project



- ▶ Potential to decrease costs and access to clean water.
- ▶ Improvement of the inner environment of the house, healthier, less air pollution by smoke, less use of fossil fuels.
- ▶ Creation of a comfortable hábitat that brings along health (purified water), learning (participative opportunities in the construction of ecological elements), and opportunities to generate more income (the potential to sell purified water).
- ▶ More opportunities for profit making in the financial and construction sectors.

