



# Integrated Action For Resilience And Adaptation (IA4RA) To Climate Change In The Raumoco Watershed, Timor-Leste

This is one of the 22 projects under the EU-GIZ ACSE Programme, funded by the European Union, and administered by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). The Integrated action for resilience and adaptation to climate change in the Raumoco Watershed project is being implemented by HIVOS, a global non-governmental organisation based in the Netherlands, in cooperation with the Ministry of Agriculture and Fisheries.

## IMPROVED COOKING STOVES TO IMPROVE HEALTH AND PREVENT FOREST DEGRADATION

 **500** VULNERABLE  
HOUSEHOLDS

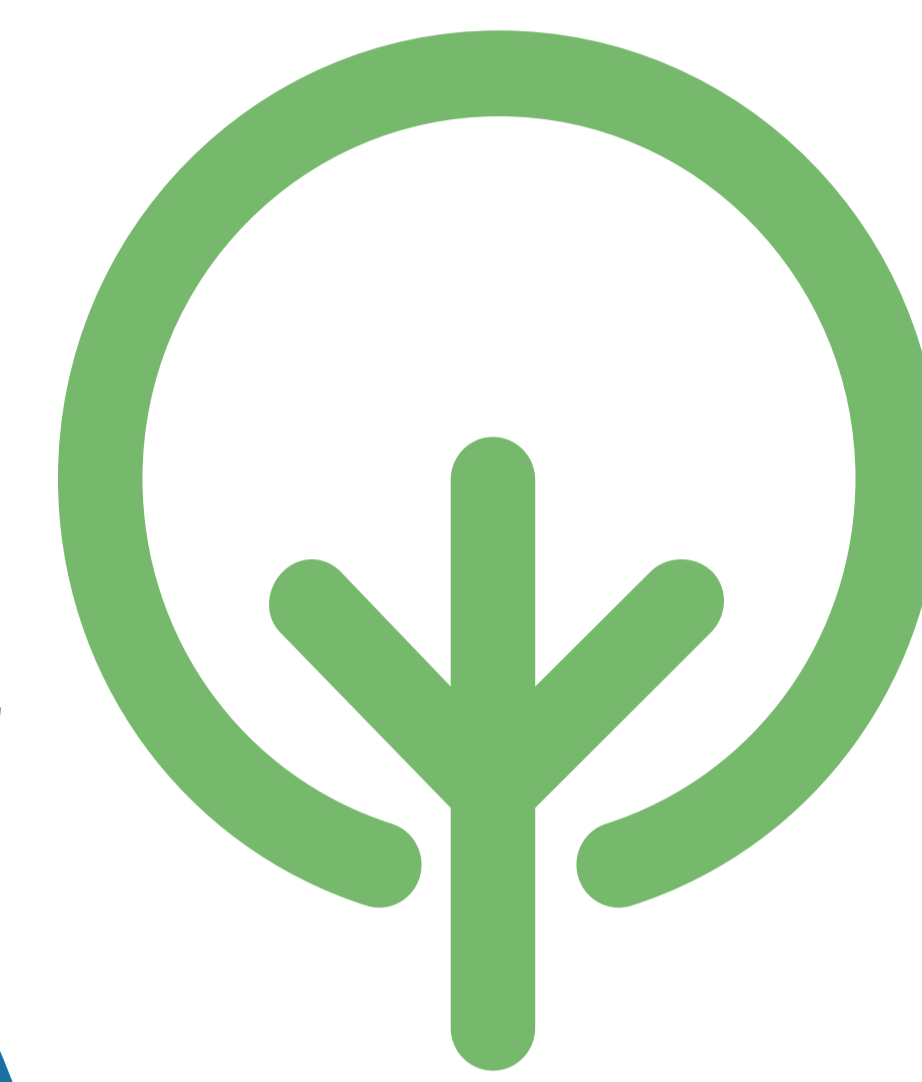
500 households in 6 villages received Improved Cooking Stoves (ICS)



Improved cooking stove fabricated in collaboration with a local NGO.

**“Our women, girls and young children will breathe cleaner air while cooking our food with this stove,”** - Suco Chief Ramos

**Sustainable  
food, water and  
energy efficient  
technologies**

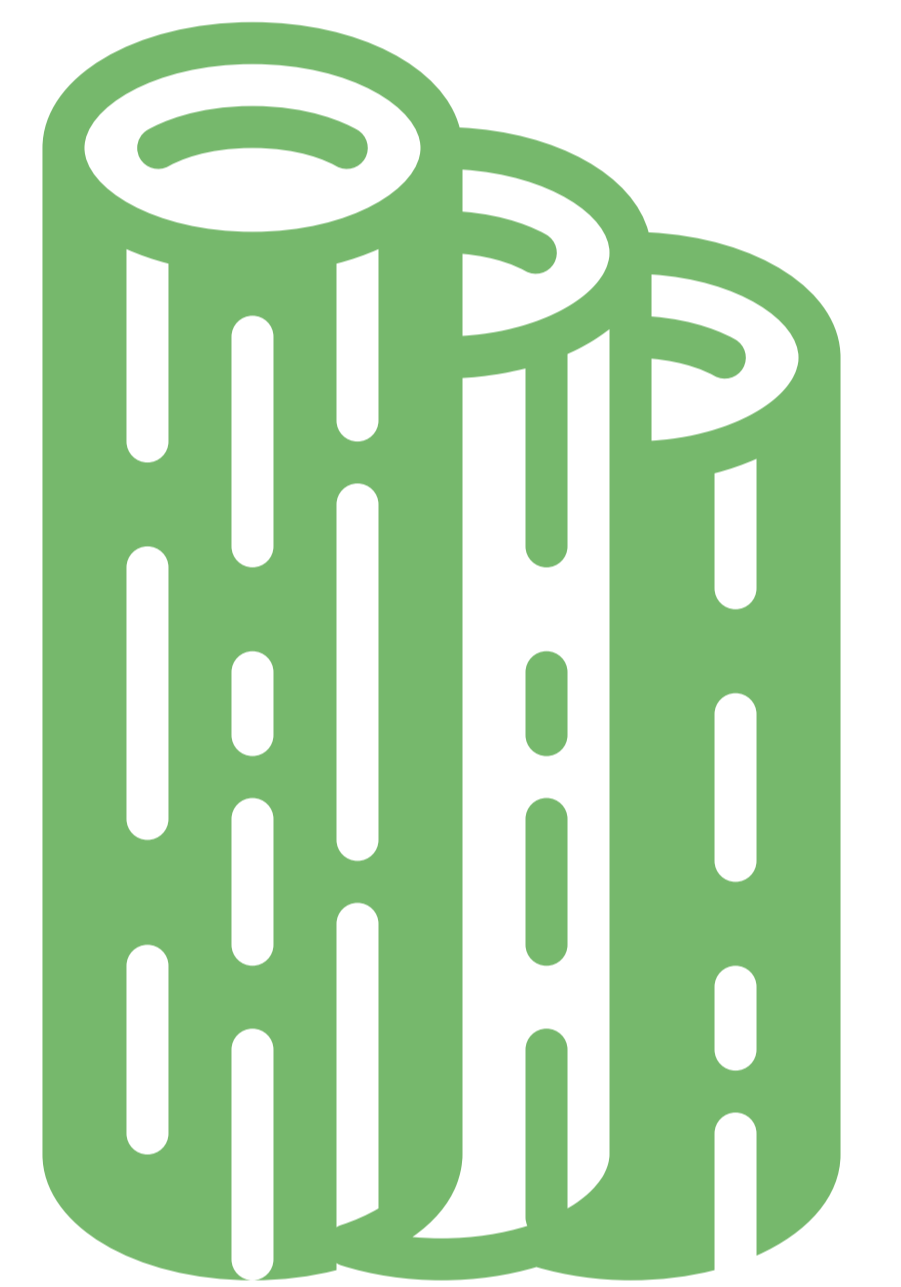


All 500 households that received ICS signed a commitment to plant at least 200 trees of *Gliricidia sepium* (gamal) trees. That would translate to 200,000 trees. Our latest count places the number of trees already planted to

**11,115**

*gliricidia sepium* (gamal) trees as living fences, hedgerows and windbreaks.

Global data from the Global Alliance for Clean Cookstoves (GACC) has shown a decrease of 40 percent in the use of fuelwood with improved cooking stoves which significantly reduces pressure on the standing forest in the watershed.



## FIRST SOLAR POWERED WATER PUMP IRRIGATION SYSTEM



### WOMEN OF LAUTEM REVIVE BARREN LAND

**15** WOMEN  
have begun harvesting vegetables.

Forty six-year-old Olinda da Costa has just earned USD270 from selling mustard, water spinach, tomato, beans and cabbages harvested from her raised bed gardens watered by a drip-dry irrigation system. Following a training on agroecology, Olinda and other members of the Grupu Ernisi Morin (GEM) are practicing an environment-friendly way to producing food and generating income for their families.

This was made possible through the implementation of a new solar powered irrigation system that was funded by the EU-GIZ Adaptation to Climate Change and Sustainable Energy (ACSE) Programme, and implemented by HIVOS and the Ministry of Agriculture and Fisheries.

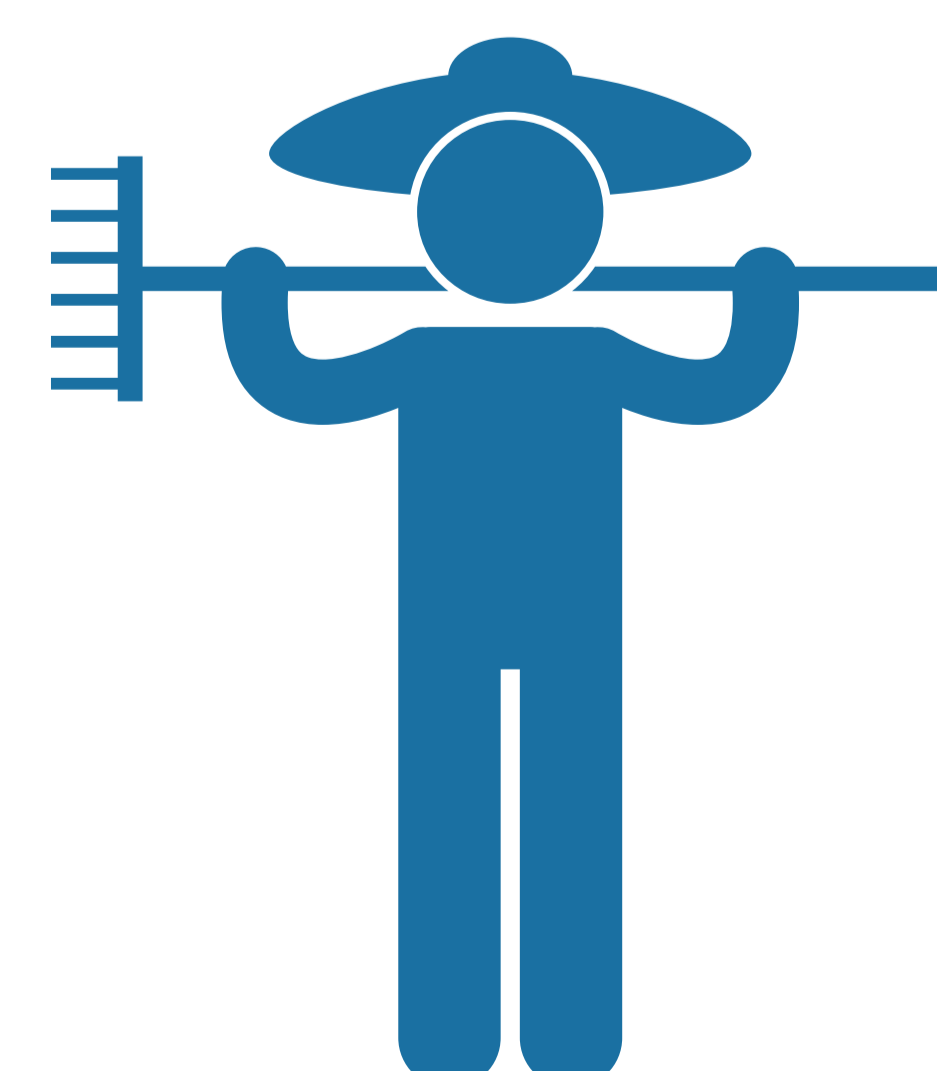


It has been 3 years after droughts turned arable land barren. 15 households in Aldeia Sagueli, in the municipality of Lautem in Timor-Leste have begun harvesting organically grown corn, watermelon and vegetables.

The Director General of Forestry, Coffee and Industrial Plantations (DGFCIP) of the Ministry of Agriculture and Fisheries (MAF) handing over tools to a female group member.

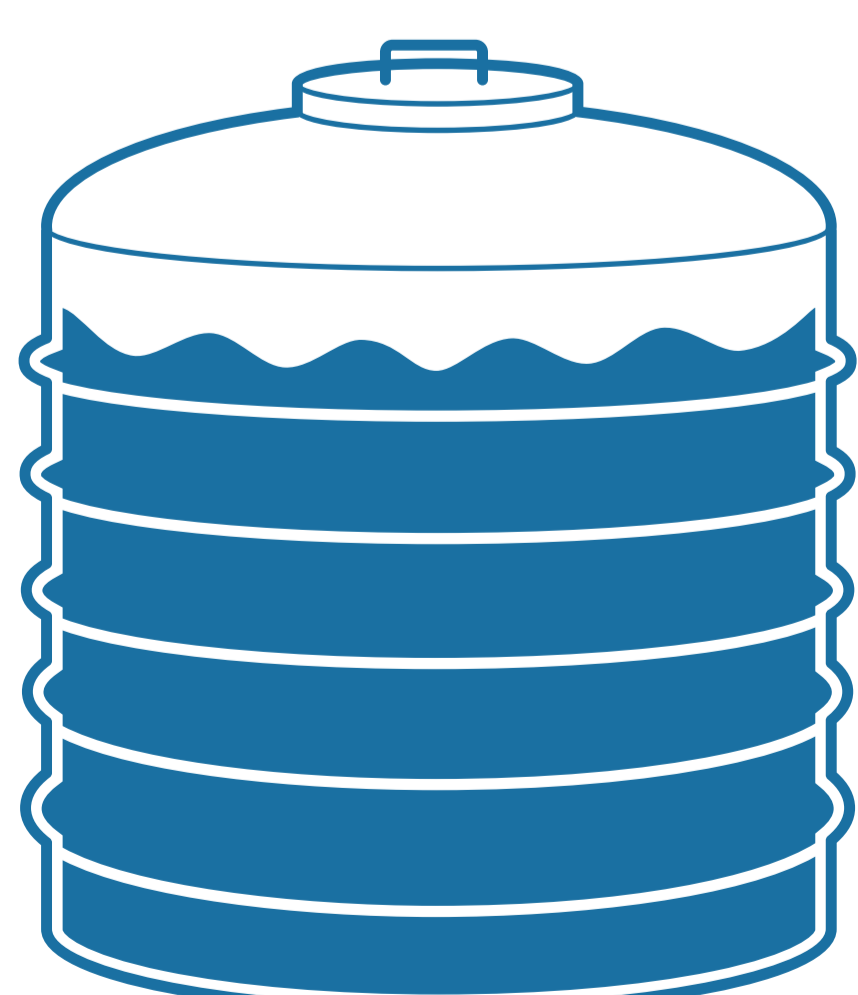
**15,000**  
sqm

After six months, each household generated an average of 315.88 EUR, earned from watermelon, vegetables such as cucumber, water spinach and long beans, cultivated on 15,000 sqm.



**12** FARMERS

have also been trained to operate and maintain the irrigation system and will teach other members of the community.



The irrigation system that makes this possible is the first for the municipality and consists of a solar powered water pump that extracts water from the Raumoco River. The water pumped into a tank with a capacity of

**60,000 LITERS**

that feeds the drip irrigation system. The facility is designed to cover a three-hectare area of farmland and is worked by 15 households that have organised themselves into a farmers' group.



#### Disclaimer

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