



# SOLAR COOKER UPSCALLING KILIMANJARO & ARUSHA REGIONS-TANZANIA



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# Introduction

Energy plays a vital role in the economic, social and political development of any country.

Approximately 3.6 tonnes of wood are burnt per annum for heating and cooking in Tanzania rural and urban.



## Introduction cont...

Such consumption of firewood has adverse effects as this wood must either be gathered by hand or purchased which is one of the major household expenses.



Case: Solar cookers upscaling

- ❖ Macedonia Ministry an NGO in Moshi- Kilimanjaro region in Tanzania and Kyoto Twist an NGO from Canada have jointly implemented two projects aimed at promoting solar cookers where one project is





Case cont...

in Majengo ward, South East of Moshi, Tanzania ended in 2012 and another project in Olonaike ward, South East of Longido District, Arusha region ended in 2014.



Case cont...

Currently, Macedonia Ministry and solar cookers International are jointly implementing one project in Rau, Moshi District in Kilimanjaro region-Tanzania.



# Objectives of the project

Challenges facing solar cookers in the region are:-

- ❖ Cost of fuel
- ❖ Time and labour used in collection robs women and children other opportunities.



## Objectives cont...

The objective of the project is  
‘To provide solar cooker users  
and makers the enabling  
environment(financial,capacity,  
household) for solar cookers  
adoption.



## Outcomes:-

- ❖ To reduce time and labour used by boys and women in collecting firewood.
- ❖ To reduce rate of tree cutting in Kilimanjaro and Arusha .
- ❖ Users are trained on imparting solar cooker skills to others.







# Methodology

- ❖ selection interviews were used.
- ❖ Prior to the survey, a pilot study of 56 respondents was undertaken to check a number of questionnaire design aspects.





## Methodology cont...

A total of 300 people were targeted (130 –Olonaiki, 50 – Rau and 120 -Majengo).

Data analysis involved calculations of sums and percentages with the following criteria:



## Methodology cont...

- ❖ In areas with marginalized and vulnerable communities.
- ❖ Women with low income not enough to buy solar cookers.





## Success stories

### **1. NAOMI YOHANA KAIKA OF OLONAIKE WARD**

She has been using the cooker for four years. Naomi and the family say that the food cooked in the solar cooker is delicious and also does not burn while cooking.

## Success cont...

### 2. ELIZABETH JOHN OF MAJENGO WARD.

She was using firewood and charcoal costing her 2,000/- per day and food was burning. After getting the cookers she is now saving 1,000/- per day and the food she cook does not burn.







# Challenges

- ❖ Lack of transport facility.
- ❖ Lack of solar cooker manufacturing industry in Moshi .
- ❖ Lack of solar cooker training and demonstration center in Moshi.
- ❖ High cost of raw materials



# Welcome to the Magic Tanzania

