

# Tanzania - Kigoma Solar Power 2013

**Abel Busalama - Independent Evaluator**

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# Sampling

## Sampling Procedure

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### (a) Stages of sample selection

The evaluation included institution, business and household surveys. There were three stages of sample selection that were implemented at different levels. The first selection was to adopt the Kigoma Rural and Kasulu districts that are targeted by the program as study areas. The second selection involved sampling of units of observation for the institution, business and household surveys. The third sampling was selection of respondents for fishers, business and households surveys. Sampling of responding units was intervention based. It involved subjects covered by the intervention for the pre-post comparison evaluation method. This was complemented by including communities not covered by the Program as comparison group for assessing baseline status in the additional treatment and comparison groups' evaluation method. However, some facilities were eliminated from the comparison sampling frame because they were too far to get to. Units of observation were selected based on program beneficiaries and stakeholders provided in the ToR.

The detailed deployment plan for the program was used as sampling frame. The evaluation used Cluster sampling design with stratification because the communities are clusters while the sources of data are stratified into treated and non-treated. For efficiency purposes, villages with most of the types of the solar PV installations (village market, secondary school, dispensary, health centre, BMU and SACCOS) were purposefully be given priority. This was to ensure all types of installations, conduits and beneficiaries are covered by the evaluation. The selection of comparison of groups' villages and facilities was also done purposefully to ensure that they are located far from the target villages and facilities of the program to the extent that they cannot access services provided by the program.

The first selection was for villages to be covered. The second stage sampling was also done purposefully based on the distribution of installations in the detailed deployment plan for the program as sampling frame and the above sample selection guide. The selection included Beach Management Units (BMUs) that are also given in the detailed deployment plan for the program. It also included selection of SACCOS based on their list obtained from MCA-T and updates by Cooperative Officers of the two districts. Once an institution was sampled as a unit of observation, the head of the institution such Headmaster/mistress was automatically or purposefully selected/identified because we had already planned to interview the institution. The third stage sampling involved selection of units of respondents for outcome indicators namely fishers/boat owners that purchased PV systems through BMUs, Businesses connected to the PV system of the village market, and businesses and households that purchased the PV systems through SACCOS. A total of 170 respondents were selected for the various surveys.

# Questionnaires

No content available

# Data Collection

## Data Collection Dates

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2013	2013	N/A

# Data Processing

No content available

# Data Appraisal

No content available

## Related Materials

### Questionnaires

#### Baseline Questionnaires

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Title Baseline Questionnaires  
Author(s) Abel Busalama  
Country Tanzania  
Filename Questionnaires.zip

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### Reports

#### Baseline Report

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Title Baseline Report  
Author(s) Abel Busalama  
Country Tanzania  
Filename Performance Evaluation of the Kigoma Solar Project - REVISED Final \_Nov.....pdf

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#### Evaluation Design Report

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Title Evaluation Design Report  
Author(s) Mathematica Policy Research, Inc.  
Date 2011-03-16  
Country Tanzania  
Filename designreport-tza-energy-mar11.pdf

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### Technical documents

#### Concept Note

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Title Concept Note  
Author(s) Abel Busalama  
Country Tanzania  
Filename Kigoma Solar PV Evaluation Concept Note\_Draft Final.pdf

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