



## NÚCLEO DE ELECTRÓNICA E ENERGIAS RENOVÁVEIS - NEER



[www.up.ac.mz](http://www.up.ac.mz)

Av. do Trabalho Nr. 2482; UP - Campus de Lhanguene; Gab. A 2.16; Telefone 823818430 / 846028989 Maputo

### **Training: Young women install a photovoltaic system at a pharmacy in the rural community of Maqueze (Mozambique)**

**Local:** Maqueze Rural Community, Chibuto District, Gaza Province (Mozambique).

#### **Objectives of the Photovoltaic System**

The purpose of the photovoltaic system is to generate electricity for:

- Lighting the pharmacy;
- Preserving medications; and
- Charging cell phones.
- Developing skills.

#### **Methodology used: Fieldwork**

#### **Results achieved**

- The pharmacy has lighting powered by electricity
- The pharmacy has a refrigeration system for the preservation of medicines
- The photovoltaic system and the pharmacy benefit more than 600,000 people
- Developed technical skills

The images below show moments from the installation of the photovoltaic system at the pharmacy.

Organizer, coordinator and facilitator: Prof. Doutor Urânio Stefane Mahanjane

**Evidence of moments during the installation of the photovoltaic system in the pharmacy**





**Figure:** Happy End, Photovoltaic system successfully installed.



## NÚCLEO DE ELECTRÓNICA E ENERGIAS RENOVÁVEIS - NEER



[www.up.ac.mz](http://www.up.ac.mz)

Av. do Trabalho Nr. 2482; UP - Campus de Lhanguene; Gab. A 2.16; Telefone 823818430 / 846028989 Maputo

### **Training: Girls install a photovoltaic system at the Mutindire Health Center in the rural community of Manica (Mozambique)**

**Installation date:** January 17, 2026

**Delivery date to the local government:** January 23, 2026

**Location:** Rural Community of Mutindire, Mucate District, Manica Province

#### **Objectives of the Photovoltaic System**

- The main objective of the photovoltaic system is to generate electricity for:
- Lighting of the Health Center (delivery rooms, patient rooms, pharmacy and general area), totaling 19 LED lamps;
- Preservation of medicines;
- Charging of cell phones; and
- Powering the television
- Development of skills.

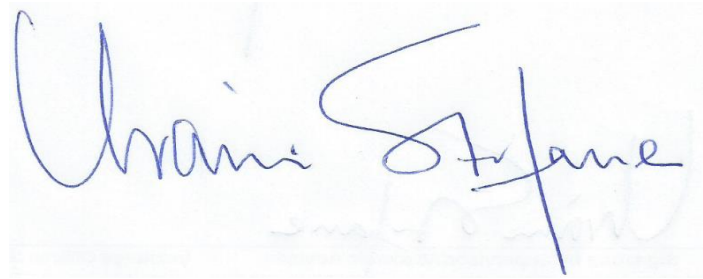
**Methodology used:** Fieldwork

#### **Results achieved**

- The Health Center has electric lighting during the day and night for general care and childbirth;
- The Health Center has a refrigeration system for preserving medications;
- The Health Center has electricity to charge cell phones and operate a television;
- The health post in the rural community of Mutindire serves 2,300 people day and night; and
- Developed skills.

The images below show some moments from the installation and delivery of the photovoltaic system at the health center in the rural community of Mutindire.

Organizer, coordinator and facilitator: Prof. Dr. Urânio Stefane Mahanjane

A handwritten signature in blue ink on a light-colored background. The signature reads "Urânio Stefane" in a cursive script. Below the main signature, there is a faint, larger, and less legible signature that appears to be "Urânio Stefane Mahanjane".

**Evidence from some moments of the installation of the photovoltaic system at the health post in the rural community of Mutindire**

















**Figure:** Happy End, Photovoltaic system successfully installed.



## **Training: Girls Install a Photovoltaic System in the Rural Community of Maqueze, Gaza Province**

Five members of NEER, three women and two men, designed and installed a 7.2 kWh photovoltaic system to power household appliances such as lamps, a television, a radio, cell phone chargers, and a freezer. With this photovoltaic system, the owner dreams of pioneering a public photocopying center in that community. This will greatly benefit students and teachers at the schools. locais.





---

Av. do Trabalho Nr. 2482; UP - Campus de Lhanguene; Gab. A 2.16; Maputo – Moçambique. Tel. +258-823818430

## **Training: Girls Install an Off-Side Photovoltaic System at the Home of Teachers in the Rural Community of Xiwanga**

**Activity dates:** October 4th to 6th, 2024

**Local:** Xiwanga Rural Community, Maqueze Locality, Chibuto District, Gaza Province

### **Results achieved**

- Implementation of an off-grid photovoltaic system in the homes of teachers in the rural community of Xiwanga and
- Developed skills.

The off-grid photovoltaic system at the homes of teachers in the rural community of Xiwanga was successfully designed, installed, and evaluated. The photovoltaic system powers lamps, cell phones, computers, and printers for the teachers in Xiwanga. This made the teachers very happy, and they were recommended to charge cell phones in neighboring communities as a form of support, but also to generate revenue for the maintenance of the photovoltaic system.

Organizer, coordinator and facilitator: Prof. Doutor Urânio Stefane Mahanjane

**SOME PHOTOS SHOWING EVIDENCE OF THE INSTALLATION OF A PHOTOVOLTAIC SOLAR SYSTEM**



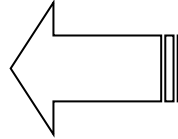
**Photo:** Shania Isabel is assembling a part of a simple residential electrical installation in the homes of teachers in the rural community of Xiwanga.



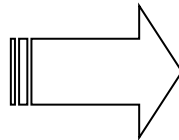
**Photo (From left to right):** Érica Nhantumbo, Miquelina Mondlane and France Murure assembling part of a simple residential electrical installation in the home of teachers in the rural community of Xiwanga.



**Photo (From left to right):** Calma Tangos and Cristina Siteo during the assembly of the Inverter and Charge Controller.



**Photo (From left to right):** Jéssica Taimo and Suneila Manafe assembling part of a simple residential electrical installation.





**Photo:** Course on the assembly of photovoltaic solar panels.



**Photo:** Photocell with its lamp successfully mounted.



**Photo:** Receiving a goat as a gesture of gratitude from teachers in the rural community of Xiwanga.



**Photo** Family outreach with teachers from the rural community of Xiwanga: Mission accomplished 100%



---

Av. do Trabalho Nr. 2482; UP - Campus de Lhanguene; Gab. A 2.16; Maputo – Moçambique. Tel. +258-823818430

## **Training: Girls install an isolated photovoltaic system at the home of teachers in the Kanhakato Rural Community**

**Local:** Kanhakato Rural Community, Gaza Province

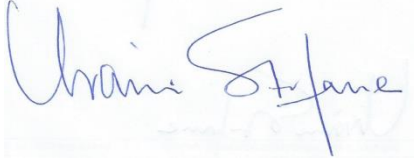
### **Objectives:**

- Install a photovoltaic system in the homes of teachers in the Kanhakato Rural Community;
- Exchange technical and social experiences with the Kanhakato Rural Community; and
- Develop technical skills.

**Methodology used:** Fieldwork

### **Results achieved:**

- Photovoltaic system installed in the homes of teachers in the Kanhakato Rural Community (See attached photos as evidence);
- - Technical and social experiences gained by the Kanhakato Rural Community.
- - The photovoltaic system also benefits 382 people for charging cell phones; and
- Developed technical skills.

<b>Facilitator</b>	Urânio Stefane Mahanjane	
--------------------	--------------------------	--

**SOME PHOTOS AS EVIDENCE OF THE FIELD WORK: INSTALLATION OF  
A PHOTOVOLTAIC SYSTEM**





























Figure: Happy End