

# Solar Center Report, Lancetillo la Parroquia, Uspantán.



# 2025



¡MPL Empoderando comunidades con emprendimientos  
y tecnologías apropiadas!

Mayan Power and Light-MPL

# Solar Center

Mayan Power and Light is a non-profit organization that identifies, manages, and executes electrification projects in community buildings, elementary schools and basic institutes, and convergence centers in rural agricultural communities in Guatemala that do not have access to this service.

## Context of the village of Lancetillo la Parroquia, Uspantán.

Lancetillo la Parroquia, located in the Zona Reyna de San Miguel Uspantán, El Quiché, is home to about 300 families and is a central point for several communities. Despite having educational infrastructure, a bank, a health center (CAP) and other services, the community lacks basic services such as electricity and drinking water. This situation especially affects education, where the National Institute of Basic Education (INEB) and the university extension of the USAC face great challenges. To operate the computer lab, the parents acquired an electric generator, but the high cost of fuel (Q600 per month) and the pollution it generates represent a significant burden. This technological limitation deepens the digital divide and affects the educational quality of young people.



## Project Outcome



### 1. Solar Circuit Workshop

Community leaders and teachers were trained on the subject of photovoltaic solar energy, making them aware of the importance of adopting this technology in the family and community environment. During the training, the following topics were addressed: 1) system components, 2) operation, 3) benefits, and 4) maintenance needed to ensure its long service life.

Solar energy has a positive impact on the environment, family and community economy. Its use contributes to the sustainable development of rural agricultural communities that do not have access to electricity service, also promoting their resilience to climate change



### 2. Access to energy and lighting.

Thanks to the installation of the Solar Center, the lighting of the facilities of the National Institute of Basic Education (INEB), which shares space with the university extension of the University of San Carlos de Guatemala (USAC), was achieved. In addition, a computer laboratory was set up, benefiting adolescents at the secondary level.

This laboratory will allow students to expand their knowledge and, with it, significantly improve their quality of learning.

Through the "Solar Centers" project, we are contributing to the fulfillment of the following Sustainable Development Goals (SDGs):



# Project Outcome

## 3. Enable a computer lab.



Through the Solar Center project, a computer laboratory powered by photovoltaic solar energy was set up, which benefits more than 200 high school and university students. This space contributes to improving the quality of education of adolescents and young people in the village of Lancetillo la Parroquia, as well as in neighboring communities in the municipality of San Miguel Uspantán.

The use of photovoltaic solar energy in educational centers represents a key strategy to promote sustainable development in communities, in addition to educating future generations about the importance of taking care of the environment through the use of renewable energies.

## 4. Community strengthening

The active participation of community leaders and women leaders was promoted, who played a fundamental role during the development of the project. Community strengthening aims to contribute to the empowerment of the population, so that both leaders are able to manage and coordinate projects aimed at sustainable development for the benefit of the inhabitants of the village of Lancetillo la Parroquia, in San Miguel Uspantán.



## 5. Training for women in the community

17 women and 10 young people from the village of Lancetillo la Parroquia were trained for three consecutive days, addressing the topics of: 1) Self-esteem, 2) Leadership and 3) Community entrepreneurship. Through these trainings, the personal empowerment and self-esteem of the participants was strengthened, which promotes their active participation and decision-making within the family nucleus, the community and the municipality. Likewise, the fundamental role played by women in family and community development was recognized.

Through participatory techniques and playful games, they were also guided on how to take advantage of the resources available in their homes to undertake small productive initiatives, which allow them to generate income and thus contribute to the economic well-being of their families.



# Community Comment



Professor at INEB Lancetillo  
The parish

## Message about the Solar Center project

I am very happy to see the project progress, I really believe that our young people are going to have other benefits, and we needed this because previously we did not have electricity and it cost a lot for young people to study computing, we have had difficulty with that but now I see the progress with that, and it will be of great benefit both for third grade, second grade and first grade.

## Message about the solar circuit trainings in Lancetillo la Parroquia "

I thank you for learning, because this is not for a while, what I learned today at this moment I learned for life, now I have the knowledge and experience of the connection that is made, because at home we have it and I am afraid to touch it, because I do not know and I have hardly gone there to see how they do it, and sometimes they leave it disconnected and I would like the energy but because of fear and ignorance I better stay with nothing and wait for the people who know, in this case I already learned something and I was commenting there with the colleague that I already learned something, I already know the identification that the devices bring, now I am encouraged to connect the energy that I have in the house.

I have liked this learning very much, I thank Poder y Luz Maya for the support and learning they have come to give us.



Member of the Board of Directors  
of Parents of the INEB  
Lancetillo la Parroquia

## Finance

DESCRIPTION	COST IN Q.
SOLAR EQUIPMENT (4 solar panels, 1 regulator, 1 inverter and 8 batteries).	Q. 42,650.00
MOUNTING STRUCTURE / ELECTRICAL MATERIAL / INSTALLATION MATERIAL.	Q. 23,233.43
MANMOUNTING STRUCTURE / ELECTRICAL MATERIAL / INSTALLATION MATERIAL. O DE OBRA	Q. 19,682.96
CONSULTING AND PROJECT MANAGEMENT	Q. 14,223.95
TRAINING FOR WOMEN	Q. 1000.00
<b>TOTAL</b>	<b>Q. 100,790.34</b>