Summary of the total number of conducted activities under each SDG for the academic year 2023-2024

Total Number of Community-Based SDG 6 Activities: One
Investment in Solar Panel in SMU: 2,330,9100
Total Clean Energy Generated in SMU: 204,044 kWh
Achieved Savings: PHP 2,057,800

Solar Generated Energy August 2023-July 2024 .XLSX

File Edit View Insert Format Data Tools Help Ask Gemini

A1

	A	B	C	D	E
1					
2	SY 2023-2024	Solar Energy Generated (Approximate)			
3					
4	August-December 2023	85,018	kWh		
5	January -Jun 2024	101655	kWh		
6	Jul-24	16,942.50	kWh		
7	**Total**	**203,616**	**kWh**	**732.42 GJ**	
8					
9					

Budget for Sustainability Efforts .XLS

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INVESTMENT IN SOLAR PANEL

Total Cost of solar panel	19,204,200.00
Cost recovery per year (equiv of 244,500 kwh/yr)	2,330,900.00
Return of investment in years	8.24
1 2018-2019	2,330,900.00
2 2019-2020	2,330,900.00
3 2020-2021	2,330,900.00
4 2021-2022	2,330,900.00
5 2022-2023	2,330,900.00
6 2023-2024	2,330,900.00
7 2024-2025	2,330,900.00
8 2025-2026	2,330,900.00
9 2026-2027	557,000.00
	19,204,200.00

Summary | Rooftop Solar Panel

PHOTOVOLTAIC SOLAR PANEL

219.7 kWp
SYSTEM SIZE

SAINT MARY'S UNIVERSITY invested and installed a 219.7 kW Photovoltaic (PV) Solar Panel on February 2018 that partially supplies power to its building facilities which;

1. can generate around 299,500 kWh of solar power annually
2. can offset 285,498.63 pounds or 129.5 metric tons of carbon dioxide emission annually
3. is equivalent to 55,160 liters of fuel fossil consumption annually
4. is equivalent to 49.8 hectare of forests for sequestering carbon annually
5. is equivalent to planting 500 fruit-bearing trees in approximately one hectare of land in the same period
6. can help combat greenhouse gas emissions and reduces collective dependence on fossil fuel

As the world continues to transition towards cleaner energy solutions, the use of solar panels have become more energy efficient and can provide a clean, sustainable, and renewable energy source, contributing to the reduction of pollution, greenhouse gas emissions,and the overall environmental impact associated with conventional energy sources.

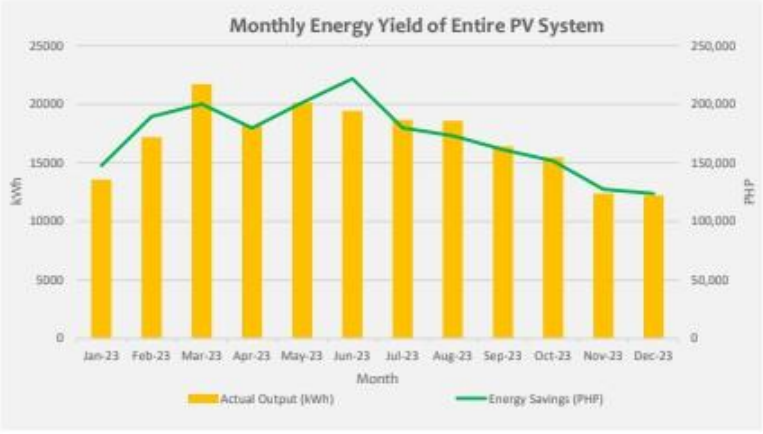
Solar PV Rooftop Performance Report SMU Bayombong

Savings Report for 2020 - 2024

Philippines, August 2024

Achieved Savings of PHP 2,057,800 in 2023!

Total Clean Energy Generated: 204,044 kWh

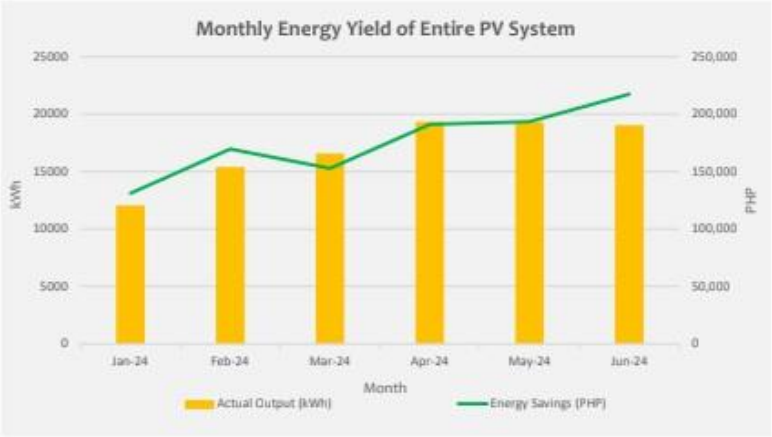


Savings calculated based on assumed average electricity tariff paid by client is at 10 PHP/kWh (per NUVELCO'S bill from Jul'16 – Jun'17)

Period: 01 January 2023 – 31 December 2023

Achieved Savings of PHP 1,054,990 in 2024!

Total Clean Energy Generated: 101,655 kWh



Savings calculated based on assumed average electricity tariff paid by client is at 10 PHP/kWh (per NUVELCO'S bill from Jul'16 – Jun'17)
Period: 01 January 2024 – 30 June 2024

WEnergy GLOBAL Powering the Planet

Total Emission Savings in 2024

Total RE generated

101,655
kWh

Equivalent to:

- **42** Houses Powered Annually (200kWh/month)
- **1,740** LED Lights Powered Annually (20W,8h/day)
- **174,438** km Driven Annually
- **2,797,810** Smart Phones Charged Annually
- **465** Ceiling Fans Powered Annually (75W, 8hrs/day)

Total CO_2 savings

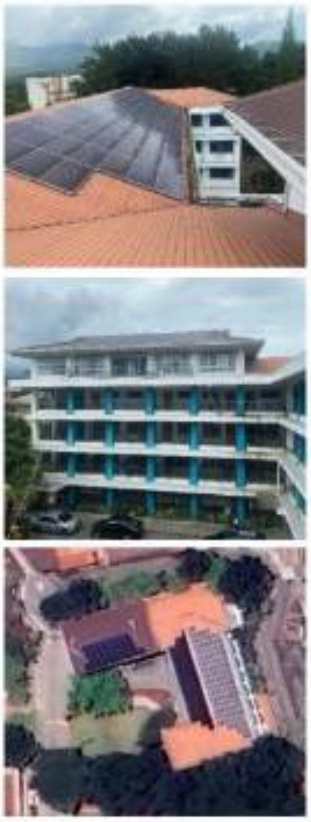
46
tons

- **18** ha Forest Carbon Sequestered

* CO_2 savings calculated based on average CO_2 emissions of the Philippine national grid

WEnergy GLOBAL Powering the Planet

Renewable Energy Sources in SMU Campus

		
Roof Mounted Solar Panels – JVD Building	Roof Mounted Solar Panels – AT Building and H Building	Roof Mounted Solar Panels – Sacred Heart Center, Debuscherre Bldg and Apo Pilo Bldg

NARRATIVE REPORT

SDG: **SDG 7 (Affordable & Clean Energy)**

Title of Activity: Electrical House Wiring Installation

Date/Time: December 16, 2023

Venue: Sitio Masina Baretbet, Bagabag, Nueva Vizcaya

Organizers: Engr. Jojo C. Mariano

Objectives: To enhance the quality of life for individuals and families in depressed communities by ensuring access to safe and reliable electrical connections. Also to improve the living conditions of residents living in this area.

Beneficiaries (if any): Residents of Sitio Masina

- Melvin Carriaga
- Myla Soriano
- Laayan Sarawad
- Manuel Family
- Cacho Family

A. Highlights of the Activity:

An Outreach Program Project entitled " Electrical Wiring Installation for the Economically Disadvantaged Families of Sitio Masina " is a commendable initiative aimed at addressing the electrical infrastructure needs of underserved and economically disadvantaged Families of Sitio Masina. This project focuses on providing essential electrical wiring installations to improve the living conditions of residents in this area. The primary goal of this outreach program is to enhance the quality of life for individuals and families in depressed communities by ensuring access to safe and reliable electrical connections. House wiring is a crucial aspect of any dwelling, as it facilitates the provision of electricity for lighting, appliances, and other essential devices. Unfortunately, many depressed communities may lack

proper electrical infrastructure, exposing residents to safety hazards and limiting their access to basic amenities. The project involves a collaborative effort among the SEAIT Faculty and Staff, Graduating Electrical Engineering Students and it is Spearheaded by Engr. Jojo C. Mariano the Electrical Engineering Department Head and Engr Candido T. Rosario Jr. The CDA Coordinator of SEAIT

At around 7:30 am last December 16, 2023, our team assembled near the Gomburza Building. The team composed of three faculty, staff and nine electrical engineering students.

Around 9:00 am we arrived at Sitio Masina where residents were waiting. A short introduction of the objective of the project was made by Mr. Vince Jimena Lucas followed by an opening remark by Engr. Candido Joseph T. Rosario Jr. After the short introduction, the electrical wiring installation materials were brought to each designated household for the wiring installation.

B. Appendices

1. Photo Documentation

Prepared by: Engr. Candido Joseph T. Rosario Jr.

SEAIT CDA Coordinator

[Electrical House Wiring Installation]

SAINT MARY'S UNIVERSITY SUSTAINABLE DEVELOPMENT GOALS

HOME SDG REPORTS

SEAIT conducts wiring installation at Sitio Masina; extends service to 5 families

The School of Engineering, Architecture, and Information Technology (SEAIT) of Saint Mary's University conducted an outreach program titled "Electrical Wiring Installation for the Economically Disadvantaged Families of Sitio Masina", aimed at improving the living conditions of families in the area by providing safe and reliable electrical connections.

The project was organized to address the lack of proper electrical infrastructure among residents, which poses safety hazards and limits access to basic amenities such as lighting and appliances. Through this initiative, the SEAIT community seeks to enhance the quality of life for families in underserved communities by ensuring access to sustainable and secure electricity.

Five families benefited from the said initiative which spearheaded by Engr. Jojo C. Mariano, Department Head of Electrical Engineering, and Engr. Candido T. Rosario, Jr., SEAIT ODA Coordinator, in collaboration with SEAIT faculty, staff, and graduating Electrical Engineering students.

Related Categories

SDG 7

SEAIT conducts wiring installation at Sitio Masina; extends service to 5 families

SEAIT conducts wiring installation at Sitio Masina; extends service to 5 families The School of Engineering, Architecture, and Information Technology ...

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