

Solar Generated Energy August 2023-July 2024 .XLSX				
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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	
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Budget for Sustainability Efforts .XLSX				
File Edit View Insert Format Data Tools Help Ask Gemini				
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	A	B	C	D
1	INVESTMENT IN SOLAR PANEL			
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25	Total Cost of solar panel		19,204,200.00	
26	Cost recovery per year (equiv of 244,500 kwh/yr)		2,330,900.00	
27	Return of investment in years		8.24	
28				
29	1 2018-2019		2,330,900.00	
30	2 2019-2020		2,330,900.00	
31	3 2020-2021		2,330,900.00	
32	4 2021-2022		2,330,900.00	
33	5 2022-2023		2,330,900.00	
34	6 2023-2024		2,330,900.00	
35	7 2024-2025		2,330,900.00	
36	8 2025-2026		2,330,900.00	
37	9 2026-2027		557,000.00	
38			19,204,200.00	
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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

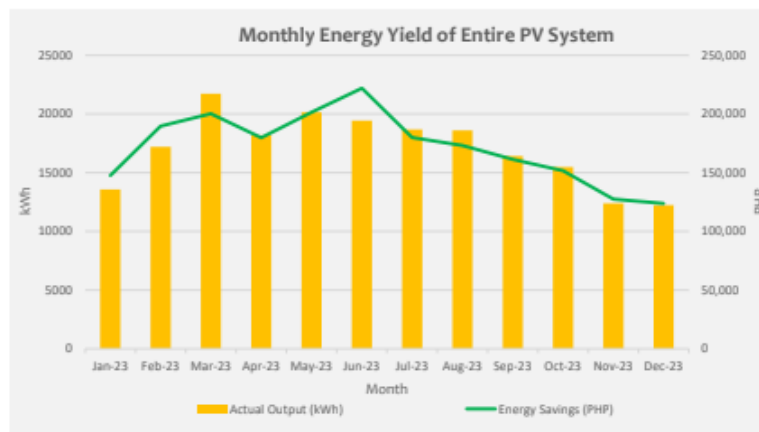
Savings Report for 2020 - 2024

Philippines, August 2024



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

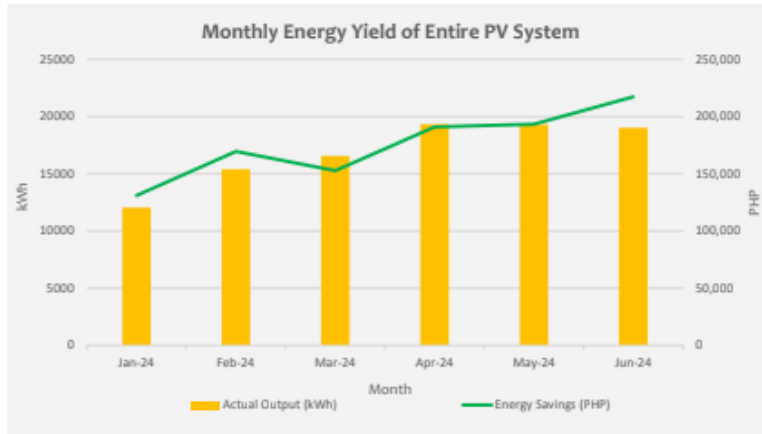
Total Clean Energy Generated: 204,044 kWh



*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

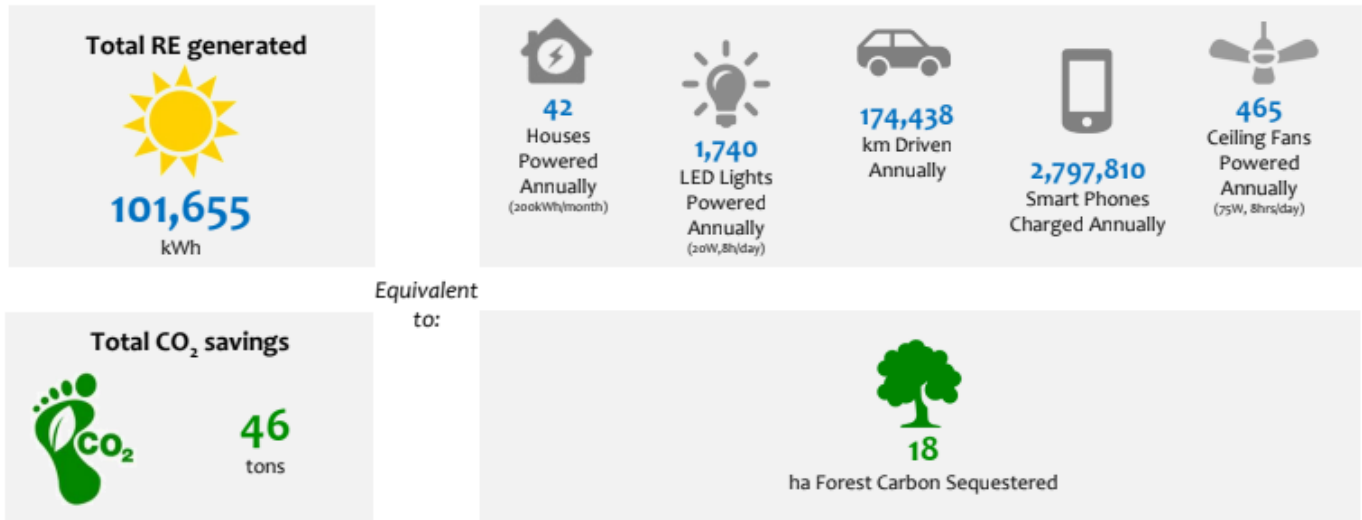


*Savings calculated based on assumed average electricity tariff paid by client is at 10 PHP/kWh (per NUVELCO'S bill from Jul'16 - Jun'17)
Period: 01 January 2024 - 30 June 2024



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Total Emission Savings in 2024



* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



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Renewable Energy Sources in SMU Campus

		
		
		<p>Roof Mounted Solar Panels - Sacred Heart Center, Debuscherre Bldg and Apo Pilo Bldg</p>
<p>Roof Mounted Solar Panels - JVD Building</p>	<p>Roof Mounted Solar Panels - AT Building and H Building</p>	



