

Metric 7.2

AY 2024 - 2025



Saint Louis University

is committed to reducing its energy consumption on its campuses through the commissioning of solar panel systems.



7 AFFORDABLE AND
CLEAN ENERGY



Indicator 7.2.5

AY 2024 - 2025



Saint Louis University University Energy Reviews



7 AFFORDABLE AND
CLEAN ENERGY



Saint Louis University Key Activities

Saint Louis University demonstrates this commitment not merely through isolated projects but through a structured, data-driven approach. The key evidence lies in the real-time monitoring and regular reporting of energy consumption and savings, particularly from their solar initiatives. The fact that energy savings and consumption data are regularly reported and segmented by campus (Main Campus, Maryheights Campus, SLU-SHMC) indicates that the university has the necessary sub-metering and data collection mechanisms in place. This level of granularity is essential for pinpointing which building or campus area is consuming disproportionately high energy, thus identifying the areas of highest wastage for targeted intervention. These activities confirm an established process of energy review, analysis, and subsequent efficiency upgrades.

Saint Louis University (SLU) engages in several activities that serve as or contribute to comprehensive energy reviews to identify and address high energy wastage areas:

1. Installation and Monitoring of Solar Power Systems
2. Regular Energy Consumption Reporting and Analysis
3. Investment in Energy-Efficient Infrastructure and Technology Upgrades



Installation, Monitoring and Reporting of Solar Power Systems

Saint Louis University (SLU)'s energy management is formalized through the installation, real-time monitoring, and structured reporting provided by its partner, WEnergy Global. The installation encompasses over 513 kWp across the Main Campus, Maryheights Campus, and the SLU Sacred Heart Medical Center, utilizing IoT-enabled rooftop solar PV systems capable of generating precise energy data. This real-time monitoring system continuously tracks the Actual Output (in kWh) of the solar panels and the total building consumption, which is critical for identifying energy wastage by isolating periods or locations of non-optimal usage. The resulting data is published in formal Solar PV Rooftop Performance Reports presented in the succeeding sections, which quantify the environmental and financial benefits, demonstrating significant savings and substantial carbon dioxide CO₂ emission reductions. This transparent reporting not only documents SLU's progress toward sustainability goals but also serves as the essential energy review mechanism required to sustain energy efficiency and accountability.

A. WEnergy Report for SLU Baguio - Main Campus



Solar PV Rooftop Performance Report SLU Baguio Savings Report for January 2023 – April 2025

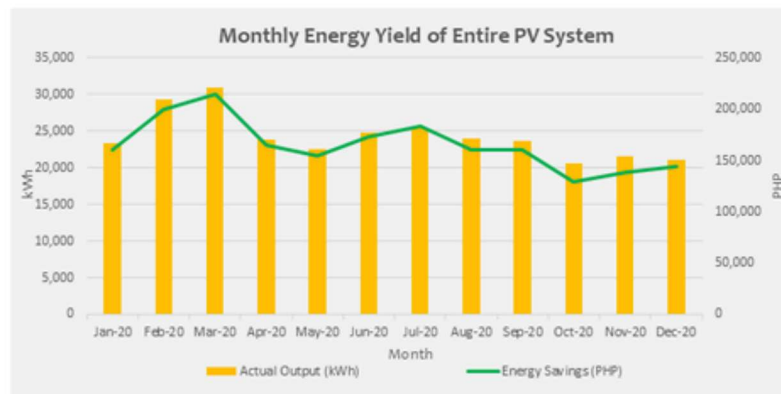
Philippines, April 2025



Installation, Monitoring and Reporting of Solar Power Systems

Achieved Savings of **PHP 1,983,498 in 2020!**

Total Clean Energy Generated: 291,328 kWh



Month	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
Actual Output (kWh)	23,351	29,351	30,950	23,878	22,577	24,763	25,479	24,067	23,642	20,639	21,627	21,005	291,328
Energy Savings (PHP)	160,954	199,666	214,521	164,549	155,057	173,148	183,118	160,121	160,304	128,851	138,603	144,606	1,983,498

*Savings calculated based on BENEKO's LV commercial consumer power rate
Period: 01 January 2020 – 31 December 2020



2

Total Emission Savings in 2020

Total RE generated


291,328
kWh



116
Houses
Powered
Annually
(200kWh/month)



4,792
LED Lights
Powered
Annually
(20W, 8h/day)



804,650
km Driven
Annually



12,905,920
Smart Phones
Charged Annually



1,278
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



127
tons



49
ha Forest Carbon Sequestered

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



3

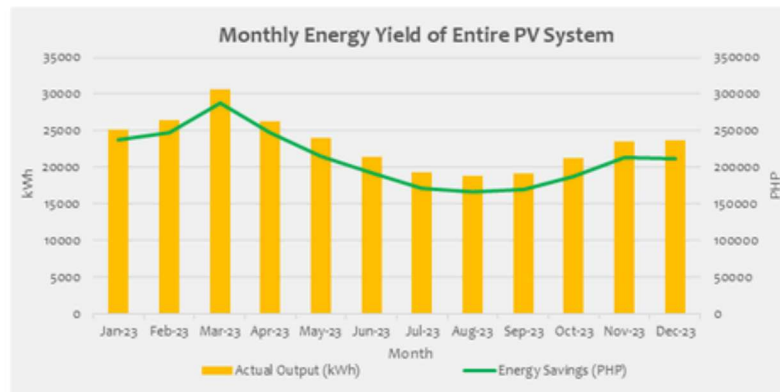
7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Achieved Savings of **PHP 2,546,458 in 2023!**

Total Clean Energy Generated: 279,842 kWh



*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2023 – 31 December 2023



4

Total Emission Savings in 2023

Total RE generated

279,842
kWh



116

Houses
Powered
Annually
(200kWh/month)



4,792
LED Lights
Powered
Annually
(20W, 8h/day)



804,650
km Driven
Annually



12,905,920
Smart Phones
Charged Annually



1,278
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



127
tons



49

ha Forest Carbon Sequestered

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



5

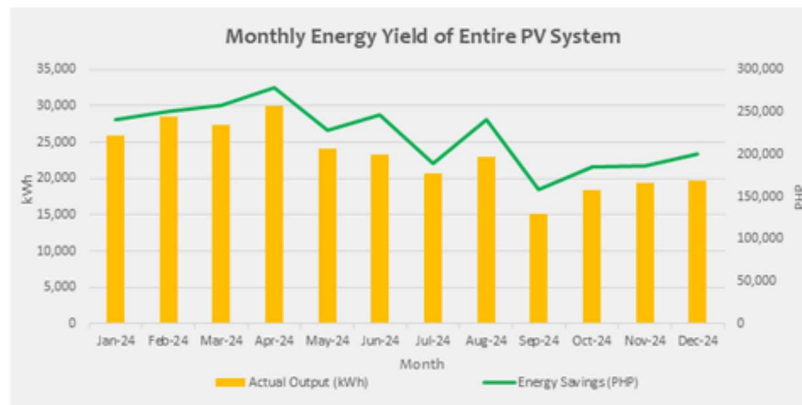
7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Achieved Savings of **PHP 2,664,141 in 2024!**

Total Clean Energy Generated: 275,605 kWh



Month	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Total
Actual Output (kWh)	25,892	28,455	27,447	30,035	24,148	23,235	20,669	23,013	15,161	18,465	19,431	19,653	275,605
Energy Savings (PHP)	241,406	250,712	257,948	278,886	228,090	246,673	188,586	240,563	158,264	185,115	187,114	200,785	2,664,141

*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2024 – 31 December 2024



6

Total Emission Savings in 2024

Total RE generated


275,605
kWh



85
Houses
Powered
Annually
(200kWh/month)



3,515
LED Lights
Powered
Annually
(20W, 8hrs/day)



444,490
km Driven
Annually



8,768,490
Smart Phones
Charged Annually



938
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



125
tons



48
ha Forest Carbon Sequestered

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



7

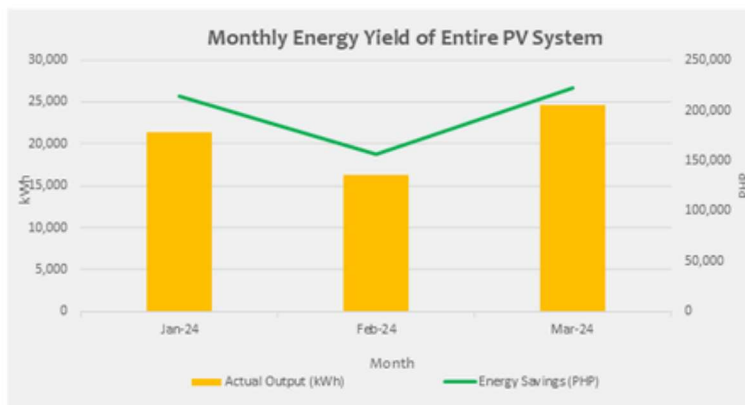
7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Achieved Savings of **PHP 593,156 in 2025!**

Total Clean Energy Generated: 62,350 kWh



Month	Jan-24	Feb-24	Mar-24	Total
Actual Output (kWh)	21,433	16,330	24,587	62,350
Energy Savings (PHP)	214,384	156,105	222,667	593,156

*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2025 – 31 March 2025



8

Total Emission Savings in 2025

Total RE generated


62,350
kWh



25
Houses
Powered
Annually
(200kWh/month)



1,060
LED Lights
Powered
Annually
(20W, 8h/day)



100,550
km Driven
Annually



1,983,690
Smart Phones
Charged Annually



285
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



28
tons



11

ha Forest Carbon Sequestered

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



9

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

B. WEnergy Report for SLU Bakakeng Campus



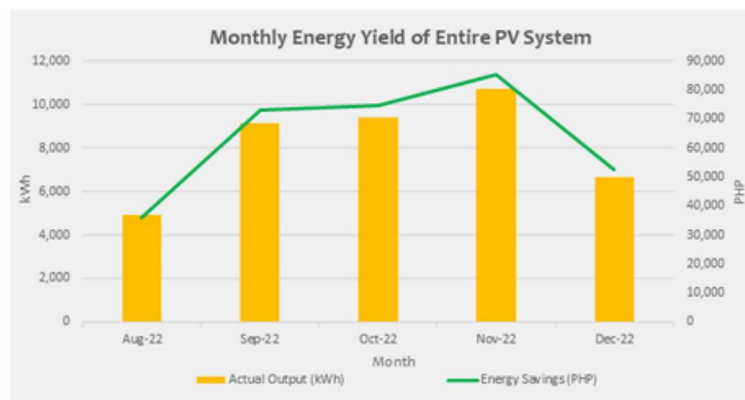
Solar PV Rooftop Performance Report SLU Bakakeng Savings Report for 2022 - 2025

Philippines, June 2025



Achieved Savings of **PHP 321,502 in 2022!**

Total Clean Energy Generated: 40,875 kWh



Month	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Actual Output (kWh)	4,940	9,144	9,417	10,728	6,646	40,875
Energy Savings (PHP)	35,845	73,051	74,510	85,441	52,655	321,502

*Savings calculated based on BENEKO's LV commercial consumer power rate
Period: 01 August 2022 – 31 December 2022



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2022

Total RE generated



17
Houses
Powered
Annually
(200kWh/month)



700
LED Lights
Powered
Annually
(20W, 8h/day)



65,920
km Driven
Annually



1,300,456
Smart Phones
Charged Annually



186
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



46
tons



18

ha Forest Carbon Sequestered

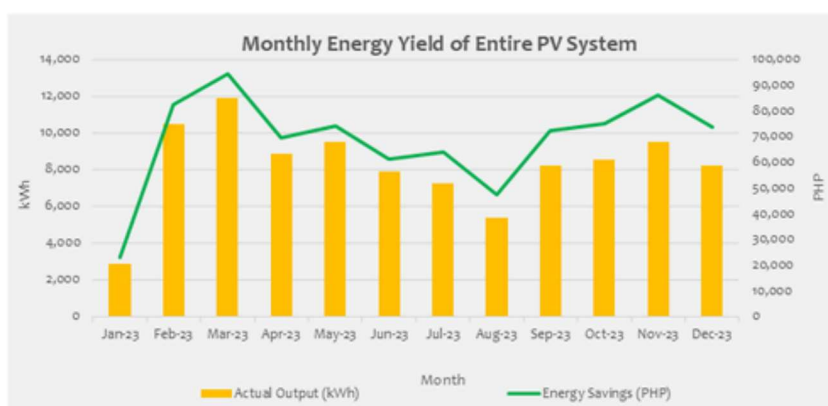
* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



3

Achieved Savings of **PHP 821,785** in 2023!

Total Clean Energy Generated: 98,500 kWh



Month	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
Actual Output (kWh)	2,865	10,463	11,909	8,861	9,505	7,867	7,231	5,356	8,215	8,515	9,517	8,195	98,500
Energy Savings (PHP)	22,743	82,411	94,103	69,646	73,877	61,027	64,137	47,172	72,332	74,790	85,971	73,577	821,785

*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2023 – 31 December 2023



4

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2023

Total RE generated


98,500
kWh



40
Houses
Powered
Annually
(200kWh/month)



1,688
LED Lights
Powered
Annually
(20W, 8h/day)



169,020
km Driven
Annually



2,710,975
Smart Phones
Charged Annually



450
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



46
tons



18

ha Forest Carbon Sequestered

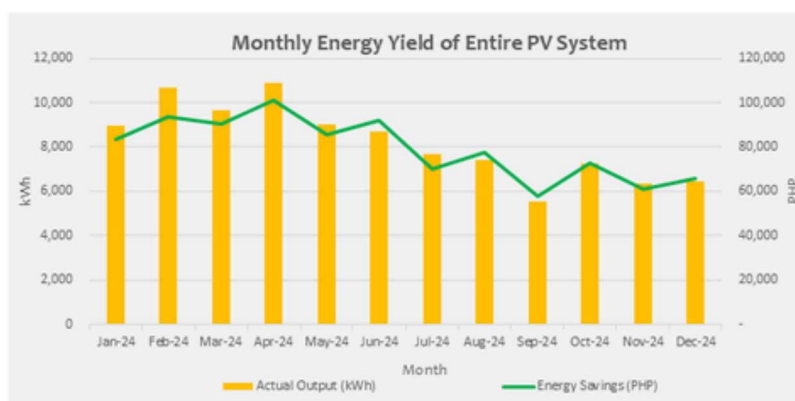
* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



5

Achieved Savings of **PHP 950,658** in 2024!

Total Clean Energy Generated: 98,432 kWh



Month	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sept-24	Oct-24	Nov-24	Dec-24	Total
Actual Output (kWh)	8,956	10,648	9,630	10,898	9,036	8,686	7,666	7,415	5,512	7,242	6,314	6,428	98,432
Energy Savings (PHP)	53,500	93,817	90,503	101,196	85,351	92,219	69,945	77,513	57,542	72,601	60,798	65,673	950,658

*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2024 – 31 December 2024



6

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2024

Total RE generated


98,432
kWh



40
Houses
Powered
Annually
(200kWh/month)



1,686
LED Lights
Powered
Annually
(20W, 8h/day)



169,010
km Driven
Annually



2,710,970
Smart Phones
Charged Annually



448
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



45
tons



17
ha Forest Carbon Sequestered

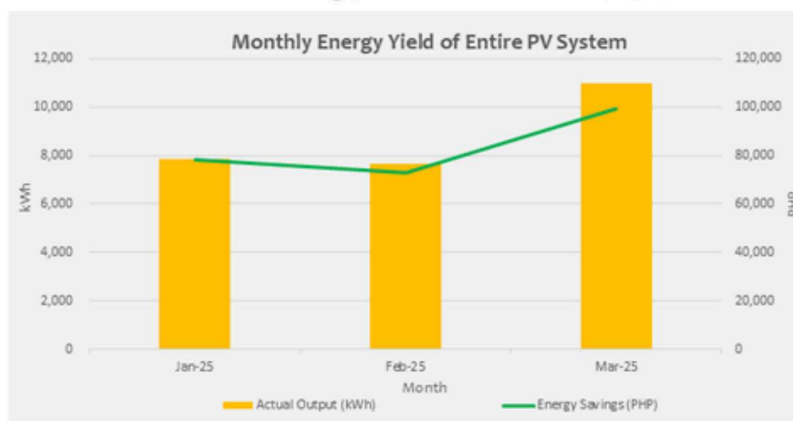
* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



7

Achieved Savings of **PHP 250,842** in 2025!

Total Clean Energy Generated: 26,454 kWh



Month	Jan-25	Feb-25	Mar-25	Total
Actual Output (kWh)	7,847	7,642	10,965	26,454
Energy Savings (PHP)	78,488	73,049	99,306	250,842

*Savings calculated based on BENECO's LV commercial consumer power rate
Period: 01 January 2025 – 31 March 2025



8

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2025

Total RE generated



11
Houses
Powered
Annually
(200kWh/month)



450
LED Lights
Powered
Annually
(20W, 8h/day)



42,665
km Driven
Annually



841,646
Smart Phones
Charged Annually



120
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



17
tons



7
ha Forest Carbon Sequestered

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



Installation, Monitoring and Reporting of Solar Power Systems

C. WEnergy Report for SLU Hospital



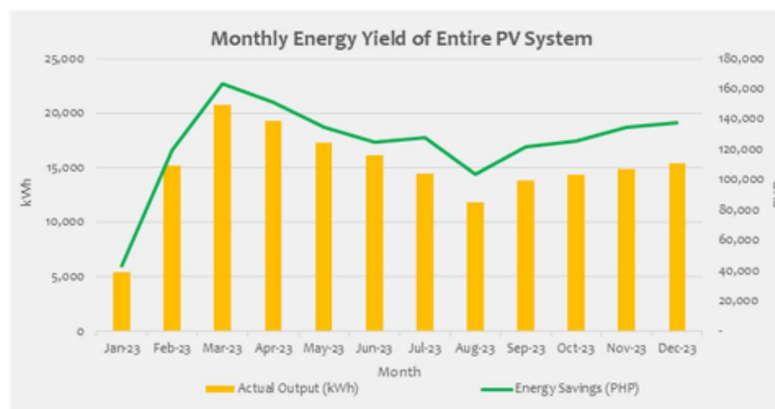
Solar PV Rooftop Performance Report SLU Hospital Savings Report for 2023 - 2025

Philippines, April 2025



Achieved Savings of **PHP 1,489,105 in 2023!**

Total Clean Energy Generated: 178,630 kWh



Month	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
Actual Output (kWh)	5,423	15,133	20,702	19,293	17,304	16,124	14,454	11,789	13,809	14,335	14,900	15,365	178,630
Energy Savings (PHP)	43,040	119,198	163,579	151,632	134,498	125,079	128,200	103,826	121,582	125,902	134,606	137,962	1,489,105

*Savings calculated based on BENEKO's HV commercial consumer power rate
Period: 21 January 2023 - 31 December 2023



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2023

Total RE generated


178,630
kWh



74
Houses
Powered
Annually
(200kWh/month)



3,058
LED Lights
Powered
Annually
(20W, 8hrs/day)



306,525
km Driven
Annually



4,916,360
Smart Phones
Charged Annually



816
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



83
tons



32

ha Forest Carbon Sequestered

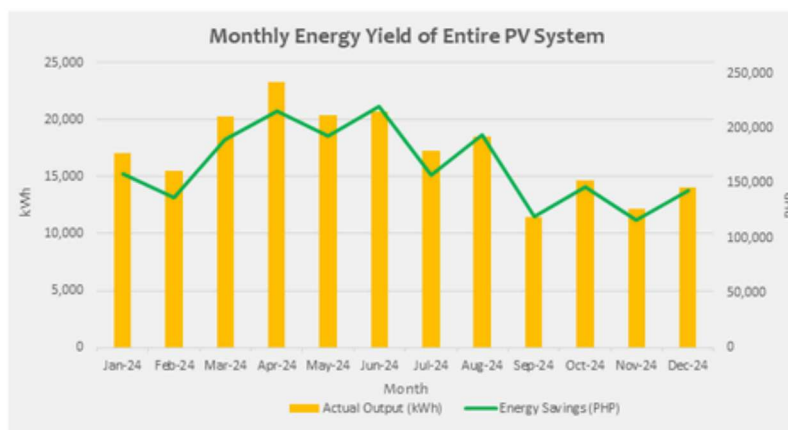
* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



3

Achieved Savings of **PHP 1,992,307** in 2024!

Total Clean Energy Generated: 205,247 kWh



* Savings calculated based on BENECO's HV commercial consumer power rate
Period: 01 January 2024 - 31 December 2024



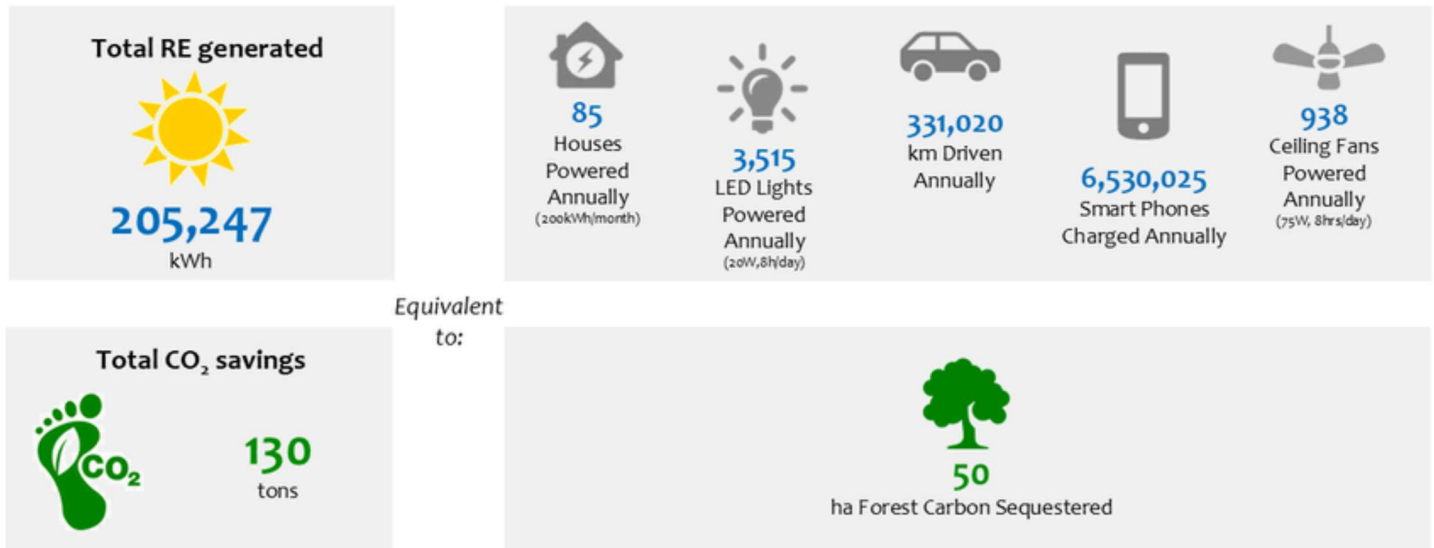
4

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2024



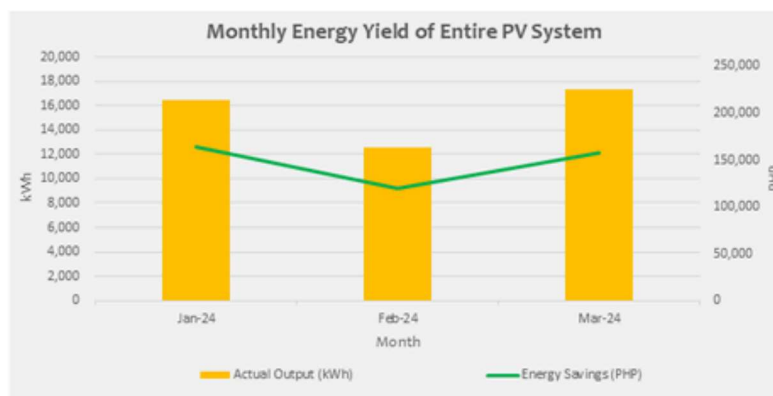
* CO₂ savings calculated based on average CO₂ emissions of the Philippine national grid



5

Achieved Savings of **PHP 441,413** in 2025!

Total Clean Energy Generated: 46,327 kWh



Month	Jan-24	Feb-24	Mar-24	Total
Actual Output (kWh)	16,415	12,570	17,343	46,327
Energy Savings (PHP)	164,194	120,160	157,059	441,413

*Savings calculated based on BENECO's HV commercial consumer power rate
Period: 01 January 2025 – 31 March 2025



6

7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

Total Emission Savings in 2025

Total RE generated



46,327
kWh



18
Houses
Powered
Annually
(200kWh/month)



776
LED Lights
Powered
Annually
(20W, 8h/day)



77,724
km Driven
Annually



1,246,635
Smart Phones
Charged Annually



205
Ceiling Fans
Powered
Annually
(75W, 8hrs/day)

Equivalent
to:

Total CO₂ savings



21
tons



8
ha Forest Carbon Sequestered

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



7

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7 AFFORDABLE AND
CLEAN ENERGY



Installation, Monitoring and Reporting of Solar Power Systems

The Renewable Energy Source utilized across Saint Louis University's (SLU) major facilities, the Baguio campus, Bakakeng campus, and Hospital is the Solar Photovoltaic (PV) Rooftop System. The operational data for 2024 and the first quarter of 2025 demonstrate a strong financial savings and significant environmental impact. The performance highlights clean energy, transforming campus roofs into active power generators.

2024: A Year of Peak Performance and Substantial Savings

The calendar year 2024 marked a significant achievement in clean energy generation for the combined solar PV systems at the three SLU sites.

Metric	SLU Main Campus	SLU Maryheights Campus	SLU Hospital	Total Combined
Clean Energy Generated	275,605 kWh	98,432 kWh	205,247 kWh	579,284 kWh
Achieved Savings	PHP 2,664,141	PHP 950,658	PHP 1,992,307	PHP 5,607,106
Total CO ₂ Savings	125 tons	45 tons	130 tons	300 tons

- **Financial and Energy Gains:** The systems generated a collective 579,284 kWh of clean electricity [calculated from: 614, 856, 1096], resulting in a monumental total savings of PHP 5,607,106 [calculated from: 613, 855, 1095] in utility costs for the year.
- **Site Contribution:** The SLU Hospital system was the largest clean energy producer in 2024, generating 205,247 kWh and achieving the highest CO₂ offset at 130 tons. The SLU Baguio campus followed closely in generation and financial savings.
- **Environmental Impact:** The total CO₂ emissions avoided reached 300 tons [calculated from: 616, 858, 1098]. This substantial environmental benefit is roughly equivalent to powering 85 houses annually or offsetting the emissions from driving 444,490 km, based on the SLU Hospital's figures alone.

Installation, Monitoring and Reporting of Solar Power Systems

2025: Continued Momentum in the First Quarter

The beginning of 2025 saw the clean energy operations maintain their strong performance throughout the first quarter (January to March)

Metric	SLU Main Campus	SLU Maryheights Campus	SLU Hospital	Total Combined
Clean Energy Generated	62,350 kWh	26,454 kWh	46,327 kWh	135,131 kWh
Achieved Savings	PHP 593,156	PHP 250,842	PHP 441,413	PHP 1,285,411
Total CO ₂ Savings	28 tons	17 tons	21 tons	66 tons

- **Financial and Energy Gains:** In just the first three months of 2025, the solar systems collectively generated 135,131 kWh of clean energy [calculated from: 617, 859, 1099], delivering total savings of PHP 1,285,411 [calculated from: 616, 859, 1098] for the campuses and hospital.
- **Site Contribution:** During this quarter, the SLU Baguio system was the most significant energy producer, yielding 62,350 kWh and achieving the highest savings of PHP 593,156.
- **Environmental Impact:** The Q1 2025 performance resulted in a total avoidance of 66 tons of CO₂ emissions [calculated from: 619, 861, 1101]. This quarter's environmental contribution is comparable to charging nearly 2 million smartphones annually, based on the Baguio campus data alone.