

## Template for Evidence(s) UI Greenmetric Questionnaire

### [2] Energy and Climate Change (EC)

#### [2.8] The Ratio of Renewable Energy Production Divided by Total Energy Usage per Year

| Renewable Energy Source |                         | KwH produced per day | Units | KwH   |
|-------------------------|-------------------------|----------------------|-------|-------|
| 1                       | Solar Energy Source     | 3.6                  | 13    | 46.8  |
| 2                       | Additional Solar Lights | 1.35                 | 7     | 9.45  |
| Total                   |                         | 4.95                 | 20    | 56.25 |

#### Total Electric Consumption for last year

| Months          | Expenses (Peso) | Kilowatt hour | Comulative Consumption (KwH) |
|-----------------|-----------------|---------------|------------------------------|
| OCTOBER, 2024   | 1362329.39      | 114,507       | 114,507                      |
| NOVEMBER, 2024  | 1536127.9       | 114,305       | 228,812                      |
| DECEMBER, 2024  | 448506.52       | 121,257       | 350,069                      |
| JANUARY, 2025   | 703394.64       | 48,465        | 398,534                      |
| FEBRUARY, 2025  | 1362078.13      | 99,120        | 497,654                      |
| MARCH, 2025     | 1330590.51      | 96,050        | 593,704                      |
| APRIL, 2025     | 1411290.33      | 97,933        | 691,637                      |
| MAY, 2025       | 1280799.87      | 95,994        | 787,631                      |
| JUNE, 2025      | 1197129.62      | 101,021       | 888,652                      |
| JULY, 2025      | 1233285.113     | 51,685        | 940,337                      |
| AUGUST, 2025    | 1216938.316     | 88,066        | 1,028,403                    |
| SEPTEMBER, 2025 | 1216938.316     | 103,161       | 1,131,564                    |

Ratio of renewable energy production divided by total energy usage per year

$$\frac{56.25 \text{ kWh}}{1,131,564 \text{ KwH}} = 0.00005 \text{ or } 0.005\%$$

## Description

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The images above show examples of the university's solar energy installations, consisting of 20 solar-powered lighting units strategically placed across different areas of the campus. These units utilize renewable solar energy to power outdoor lighting throughout the night, contributing to reduced dependence on conventional electricity sources.

The total renewable energy generated by these solar installations is estimated at 56.25 kilowatts (kW) per year. When compared to the university's total annual electricity consumption of 1,131,564 kWh, the ratio of renewable energy production to total energy usage is approximately 0.00005, or 0.005%. Although this ratio is relatively small, it represents the university's ongoing commitment to integrating renewable energy technologies and gradually expanding solar infrastructure as part of its sustainability initiatives