BATANGAS STATE UNIVERSITY
The National Engineering University
1903
PHILIPPINES
EXCELLENCE

BATANGAS STATE UNIVERSITY'S (BATSTATEU'S) POLICY GUIDELINES FOR SUSTAINABLE DEVELOPMENT

which will be performed by a designated Energy Conservation and Efficiency Committee.

1.5.3 The University shall promote the use of renewable energy resources especially to new constructions and to integrate them in existing building renovations. This shall include the utilization of solar PV.

1.5.4 The University shall implement measures on reduction of greenhouse gases emissions. The goal is to reduce the greenhouse gas emissions of the campuses to 25% below 2022 levels by 2029 based on the BatStateU Sustainability Plan.

a. The following shall be practiced as regards the use of University vehicles

a.1 Proper trip planning, car-pooling and vehicle maintenance

a.2 All vehicles shall be properly maintained and have valid registration with the LTO and are compliant to the Clean Air Act emission standards

a.3 Drivers shall practice eco-friendly driving habits to ensure efficient and low-carbon footprint use of all University vehicles.

b. As regards private vehicles, the following must be observed:

b.1 “No-idling policy” shall be implemented

b.2 With valid registration with the LTO and compliant to the Clean Air Act emission standards. Vehicle pass stickers are issued upon submission of a photocopy of the vehicle’s Official Receipt and the Certificate of Registration (OR/CR).

c. Generator sets

c.1 Generator set will only be used when there is no power supply and/or during an emergency situation.

1.5.5 Students and personnel of the University shall make every effort in achieving the goals of BatStateU to lower energy consumption, decrease greenhouse gas emissions, reduce energy expenditures, transition to clean and alternative energy sources, and educate the BatStateU community on the importance of energy conservation, management and efficiency.

University : Batangas State University, The National Engineering University
Country : Philippines
Web Address : https://batstate-u.edu.ph/

Number of renewable energy sources on campus (EC.3)

Five Storey STEER HUB
Capacity 20KVA

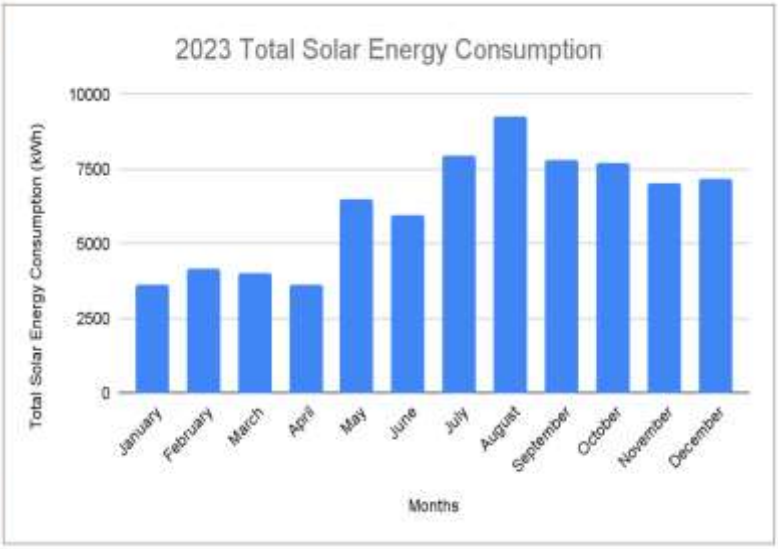
Five Storey Higher Education Building
Capacity 20KVA

Five Storey Higher Education Building
Capacity 20KVA

Five Storey Student Services Center II
Capacity 10KVA

Seven Storey CIRTC Building
Capacity 33KVA

Month of 2023	Total Solar Energy Consumption (kWh)
January	3636.07
February	4159.30
March	4016.04
April	3615.12
May	6502.33
June	5942.19
July	7941.41
August	9277.76
September	7817.67
October	7698.69
November	7030.66
December	7193.65
Total	**74830.89**
Total in Gigajoules	**269.39**



Description:

Solar energy is a source of renewable energy being used by the university. Solar panels were installed on the roofs of different buildings of Batangas State University. Presented are the photos of some of these buildings such as the Five Storey Higher Education Building (20kVA capacity), Five Storey Student Services Center II Building (10kVA capacity), and Seven Storey CIRTC Building (33kVA capacity) in Batangas State University Pablo Borbon; the Five Storey STEER HUB Building (20kVA Solar PV capacity and 4kVA battery capacity for Hybrid) in Batangas State University Alangilan; and the Five Storey Higher Education Building (20kVA capacity) in Batangas State University Lipa. The solar panels are being utilized 24 hours a day.

According to research, the utilization of new and alternative energy sources, specifically solar energy, has been on the rise and will continue to grow as we attempt to diminish our use and dependency on older, non-renewable energy sources. Solar energy technologies are one of the least carbon-intensive ways to produce electricity in a society that is becoming more and more carbon-constrained.

Accordingly, Batangas State University makes a commitment to creating climate-smart infrastructure and technology by installing solar panels to help battle greenhouse gas emissions and lessen our global reliance on fossil fuels.

The table and figure as presented above illustrates the recorded solar energy consumption for 2023. The data presented states the total monthly consumption which arrives at 74, 830.89 kWh or 269.39 gigajoules annual solar energy consumption for 2023. It can be noticed that the month of August generated the highest consumption of solar power energy at 9277.76 kWh. It can be due to the angle of factors, including the angle of the sun, the length of the day and the weather in the afforested months.

Responding to the globally competitive nature of academic structures, Batangas State University is continuously building ways in creating a sustainable community in all its campuses and to realize the vision of a green sustainable future.

Therefore, Batangas State University has **1 source** of renewable sources.