University Rating System (HURS)

University : Siam University
Country : Thailand
Web Address : http://sustainability.siam.edu

SI 2.4 Advanced Energy Management Systems

[2.4.8] Renewable energy produce inside campus



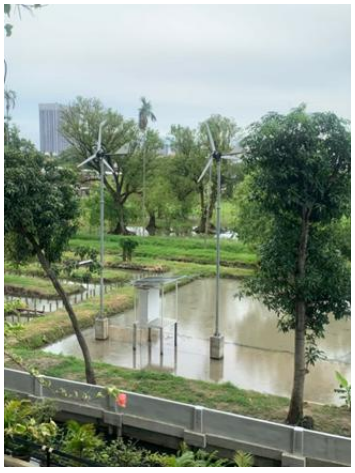


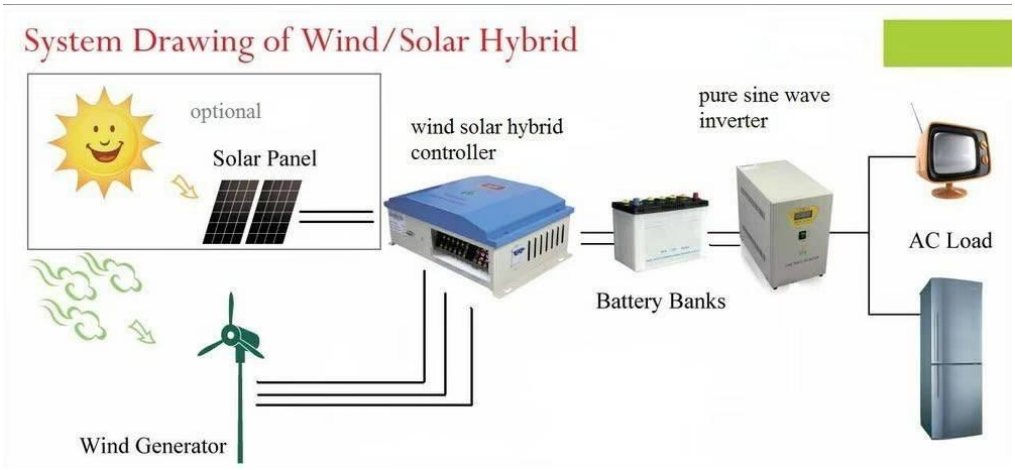












Renewable energy, solar cells, wind power (Siam University, Thailand)

Description:

According to our policy ("Green and Clean Campus" Policy), Siam University has encouraged to reduce carbon and greenhouse gas emissions by using more alternative clean energy, such as using solar energy and wind energy in the university. Therefore, we have installed solar cells on roofs of all buildings and wind turbines in a garden in order to increase clean energy usage in the campus.

Afterwards, we have continued our renewable energy sources installation plan, both indoor and outdoor. This year, Siam University installed more additional Solar Rooftops and it was indicated that the **solar power can produce a total electric capacity of approximately 990,320.40 kW-h.** The number showed increase from last year 40,383.80kW-h. We have thus managed to increase renewable energy source by 4.25%. In addition, **the wind turbines are not only used for water treatment but also are used to produce electricity within the campus. It can produce an electric current of around 4622.4 kW-h per year**. According to Siam Energy Annual Report 2022, our electric bills in the year 2022 were 3,381,856.00 kW-h, while the electric bills in the year 2023 were 3,286,000.00kW-h. We have thus managed to reduce our electrical expenses up to 2.83%. Nevertheless, this reduction was also due to other methods that we used to control the electricity usage of the lecture rooms, elevators, air conditioner replacement, and solar light installation along the pedestrian path within the university.

Solar power provides 990,320.40 kilowatt-hour

Wind power provides 4622.4kilowatt-hour

Additional Information on SDG7

https://sustainability.siam.edu/