



University : Universitas Sumatera Utara
Country : Indonesia
Web Address : www.usu.ac.id

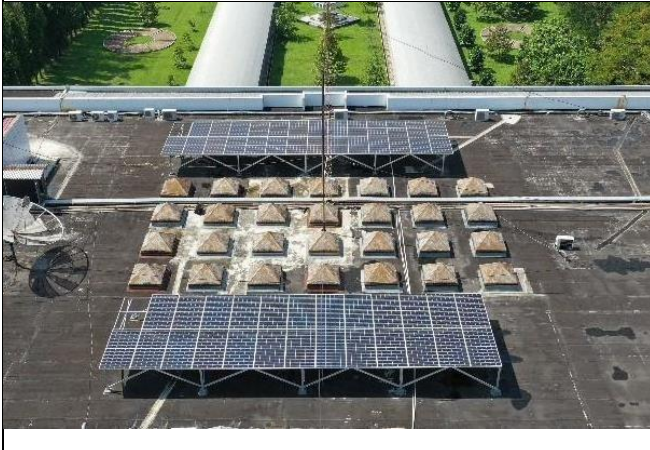
[2] Energy and Climate Change (EC)

[2.5] Renewable Energy Sources in Campus





Solar-powered lights along at Universitas Street



Roof Top Solar Panels in USU Office 21 kWp



Solar panel in Faculty of Engineering integrated Lab dan Class Room



Speed Bump



Solar lighting and Charging in Student Pavilion



Solar Charging in Shuttle Bus



Wind Turbine



Water Turbin/Pump as Turbine



Biomass Pyrolysis

Description:

In order to increase the use of new renewable energy, USU builds facilities with renewable energy sources. USU has three sources of renewable energy produced on campus. They are:

- a. Electricity from solar panel
Solar panels found in the Main Administration Building (21 kWp capacity), Mechanical Engineering Laboratory (3 kWp capacity), the Rooftop of Electrical Departemen Integrated one classroom (280 Wp capacity), solar-powered lights along at Universitas Street (14 kWp capacity), Solar Lighting and Charging in student pavilion (6 x 425WP) and Solar charging at shuttle bus (2 x 150 Wp)
- b. Wind Turbine (capacity 800 watt)
- c. Water Turbine (Pump as Turbine/PAT) (capacity 586 watt)
- d. Electricity from speed bump (Combine Heat and Power) (less than 100 Watt)
- e. Biomass Pyrolysis (capacity 500 watt)