# ABSTRACT

Street lights or also known as Public Street Lighting (PJU) are lights used for street lighting at night making it easier for road users to see more clearly the road to be traversed at night, so as to improve traffic safety and security.

In this research, an automatic public street lighting performance monitoring system will be designed which can then be displayed on the available database. The PJU will turn on and off automatically based on the time or intensity of light which when at 17.00 the light will automatically turn on or when the sensor reads that the surrounding environment has a light intensity that tends to be dark, the light will also automatically turn on. Then the PJU system is equipped with voltage and current sensors which can monitor the battery so that the quality of the battery can be known. In addition, the system is also equipped with notification so that when the system detects a device error, the system will send data to the website so that errors in the system can be handled quickly.

Based on the test results from this study, the results of the sensor measurements on the battery have a difference of 0.1216V when compared to the readings from the measuring instrument. As well as the sensor measurement of the solar panel output has a reading difference of 0.2683V. Then for testing the performance of the website, it is able to display reading values and display graphs.

**Keywords**: PJU, Monitoring, Website.