ABSTRACT

Nowadays, more and more people are using solar panels as an alternative source of electricity. Starting from small devices such as lamps, even homes can use solar panels as an alternative backup when there is no electricity available from PLN.

There are various solar panels on the market, starting from All in One (AiO) which user just install themselves and Do It Yourself (DiY) where users have to choose and assemble the solar panels according to their needs.

Monitoring is basically measuring, seeing, and monitoring. Usually, solar panel monitoring is done by measuring the incoming current and voltage (input) and the outgoing (output) using a multimeter, but the data obtained cannot be recorded continuously.

In this research, a solar panel monitoring system was created which can be accessed by users via a website. This monitoring system can also record input and output current and voltage in real time from the performance of solar panels.

Keywords: Solar Panels, Arduino, Sensor, Monitoring, Website