

## **ABSTRACT**

Nowdays, everything about energy saver become attention. Efficiency energy utilization is very important in use of electronics instrument. This thing has the purpose to make a technology that friendly to the environment. Not with the exception of house lighting. We often see that many light shine although not be use. This thing can be big energy wasting. So, we need the solution for this problem, and the answer is energy saver automatic light.

This lighting system has the purpose to controlling light condition automatically base on around condition. This system will detect level of light from a room. If the room has enough lighting level, the light will be in off condition. But, if the room has not enough level of lighting (in dark), the light will turn on. Main source of the energy for this light is not from PLN, but came from solar panel. We use solar panel to save energy from PLN and utilising energy source that free and can be use for long term.

This light system that base on solar panel can work genially. This system can utilize solar energy by using solar panel and the output of system (light) can be controlled automatically by sensor blok that depends of environment condition. The solar panel can charging the battery from empty to full capacity about 12 hours. The sensor can turn on the light at 18.02 and turn off the light at 05.50. This system can utilize solar energy, so can help us to save limit energy source from PLN.

Keyword : Automatic Light, Solar Panel