

# ***STREET LIGHTING DESIGN USING SOLAR CELLS AND IOT BASED PIR SENSORS***

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## **ABSTRACT**

The lack of street lighting which triggers a high number of accidents and crime and theft makes the general public less interested and afraid to pass through the streets, especially at night, because they feel unsafe and comfortable, so it will have an impact on the economic growth rate of rural communities. not progressing and developing, the process of collecting basic theory and data related to the problem that the author has previously identified is carried out. The data sources and theoretical basis used can be taken from theses, journals and articles to form the basis for preparing the report. This test includes an electronic system to run the automatic system. When there is movement the light will turn on, if not the light will turn off and this condition will be tested under conditions at night and during the day if there is movement then the lights will not turn on to focus on charging the battery via the solar panel. This tool can work at night when the motion sensor detects movement in front of it, the lights will automatically turn on to save energy that has been stored in the battery. During the day this tool is only focused on charging the battery and so that the energy that has been stored in the battery when the motion sensor detects movement in front of it, the lights will not turn on.

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