

***Design And Build A Telemetry-Based Solar Panel  
Performance Monitoring System***

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**ABSTRACT**

*The development of renewable energy is growing, not except for solar panels which can convert solar energy into electrical energy. The more widespread use of solar panels, there will be a lot of PLTS everywhere, so it will be less efficient in monitoring every existing PLTS if it is not centralized. The purpose of this study is the application of a telemetry system in PLTS which can monitor the performance of a separate solar panel and monitor it in one observation point. This research planning uses 2 PLTS and 1 observation place. The distance between PLTS 1 and the observation center is 66 m, while PLTS 2 is from the observation center of 342 m. With the telemetry system, parameter data can be sent wirelessly and can be visualized directly.*

*Keywords: Telemetry, Solar Panels, Solar Power Generation*