

**The Design of the Solar's Energy CCTV System in Engineering Parking Lot
Politeknik Negeri Jember**

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ABSTRACT

Solar energy has the potential to generate electricity with off-grid PLTS technology. Utilization of PLTS Off grid technology as an environmentally friendly building parking at Politeknik Negeri Jember. for security and ease of surveillance. The first method is charging for 3 days of repetition, after that, the highest average battery usage is taken for load consumption without solar panels. Electricity production from PLTS is used to compliance the highest average electricity demand of 9,68 Wh . The technical planning of the PLTS is expected to be able to supply the CCTV needs for a day. From the results of the research analysis stated that the design of off grid 20 Wp PLTS is able to supply CCTV powerneeds for a day.

Key words: CCTV HB05, energy surya, Off grid, PLTS