

***Design and Development of Internet Network in Blankspot Areas Using a Cellular BTS
Based on a 100 Watt Peak Photovoltaic System for Promoting Nanggalan Beach
Tourism in Jember***

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ABSTRACT

Internet is one of the most essential needs for all of humanity in our modern civilization. It can be utilized for many purposes, one of which is in the field of economics. This aligns with the innovation of the Internet Network in Blankspot Areas Using a Cellular BTS Based on a 100 Watt Peak Photovoltaic System for Promoting Nanggalan Beach Tourism in Jember. This project is a design of a system that leverages an off-grid electrical network to provide internet access in Jawala village. The components used include LHG-LTE, Mikrotik-rb941, SCC, and solar panels. The primary function of the Internet Network in Blankspot Areas Using a Cellular BTS Based on a 100 Watt Peak Photovoltaic System for Promoting Nanggalan Beach Tourism in Jember is to provide an independent internet network facility aimed at supporting the local economy by using Nanggalan Beach as the main promotional object.

Keywords: *Internet of Things, LHG LTE, Mikrotik, BTS Off-Grid Solar Power Plant*