

# ***ACCESSPOINT DESIGN USING SOLAR POWER FOR INTERNET SPREADING***

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## ***ABSTRACT***

*The need for electrical energy in this modern era is increasingly needed by Indonesian people, the use of this electrical energy helps a lot in human work activities as well as in their daily activities, therefore the government implements (Phasing Out) Coal Power Plants and carries out massive NRE development and interconnection. (Supergrid) Indonesia. Research in this thesis aims to utilize solar panels as an energy source from one of the uses of communication technology, namely (Access point) solar-powered internet, it is hoped that this thesis research can become a reference for internet service providers or internet business people (Wifi) can be a new breakthrough in developing its (Masive) network to a remote area to support the development of Indonesia's digitalization . This research was conducted from March 2023 to April 30 2023 at the Jember State Polytechnic, Sumbersari District, Jember Regency. There are 3 research designs for this thesis, namely how to compare operational cost benefits between the use of solar panels and the use of conventional PLN electricity, to find out the dynamic amount of electrical energy required by deployment (Accespoint Wireless), and to find out the flexibility of the installation method of use (Accesspoint Wifi Hotspot ) in the open.*

**Keywords:** Electrical energy needs, solar panels, Internet, Hotspot access