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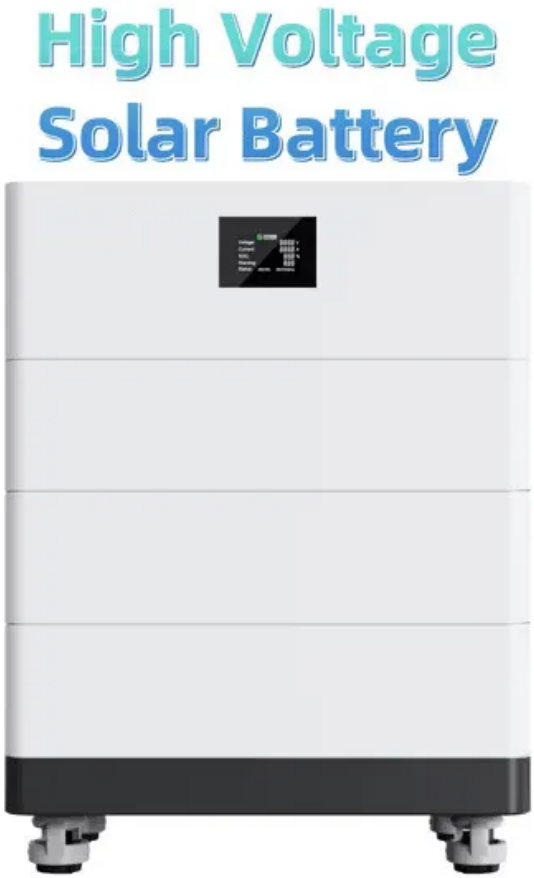

Overview

This paper presents the solution to utilizing a hybrid of photovoltaic (PV) solar and wind power system with a backup battery bank to provide feasibility and reliable electric power for a. In conclusion, it"s more eco-friendly and economic to construct a wind solar hybrid power system for the communication base station cause solar and wind is sufficient here. The Assela Wind Farm, situated in the Oromia region of Ethiopia, will feature a transformer station and a high voltage. This paper proposed a standalone solar/wind/micro-hydro hybrid power generation system to electrify Ethiopian remote areas that are far from the national utility grid. The aim is that it will lead to the development of renewable energy sources, using a hybrid optimization model for energy. This is to certify that the thesis prepared by Rihana Mohammed, entitled: Optimal Sizing of Grid-PV Hybrid System for ethio telecom Access Layer Devices and Its Economic Feasibility, submitted in partial fulfillment of the requirements for the degree of Master of Sciences (Energy Technology). · This paper presents the solution to utilizing a hybrid of photovoltaic (PV) solar and wind power system with a backup battery · This paper presents the solution to utilizing a hybrid of photovoltaic (PV) solar and wind power system with a backup battery bank to provide. Ethiopia Telecommunication Base Station Photovoltaic Power Generation System Energy Storage This paper presents the solution to utilizing a hybrid of photovoltaic (PV) solar and wind power.

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· By integrating PV power generation systems and energy storage devices, we achieve self-sufficiency of base stations in the event of unstable power supply or power outages.

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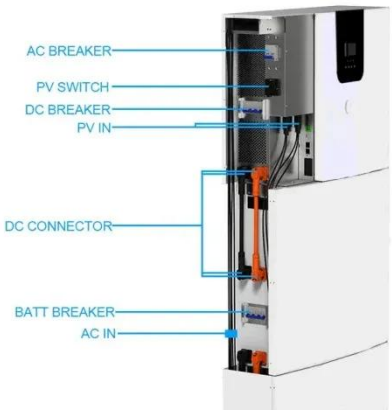

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