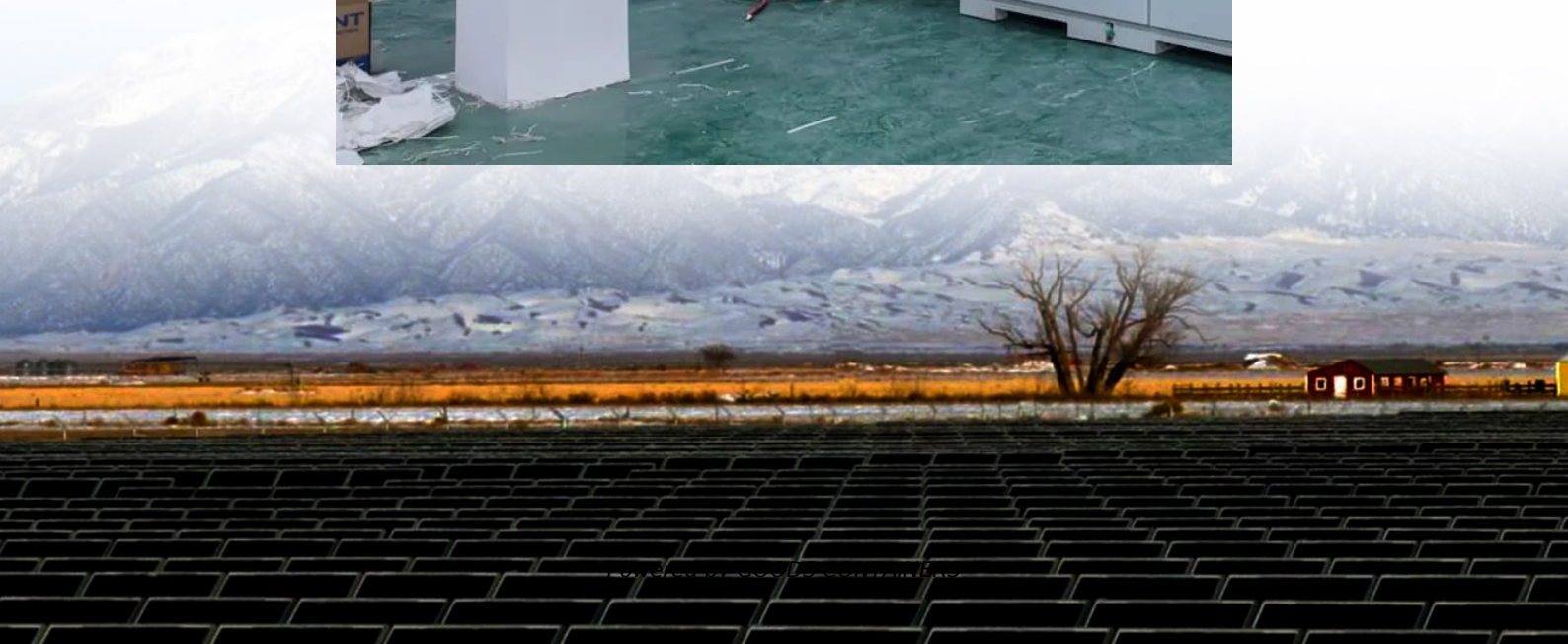


# **Gitega Communications PV Base Station Installation Budget**





## Overview

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What is a 5G base station power system?

**Model of Base Station Power System** The key equipment in 5G base stations are the baseband unit (BBU) and active antenna unit (AAU), both of which are direct current loads. The power of AAU contributes to roughly 80% of the overall communication system power and is highly dependent on the communication volume .

Can a base station power system be optimized according to local conditions?

The optimization of PV and ESS setup according to local conditions has a direct impact on the economic and ecological benefits of the base station power system. An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters.

Can a base station power system model be improved?

An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through this, a multi-faceted assessment criterion that considers both economic and ecological factors is established.

Which land parcels are suitable for PV power stations?

Overall, the suitable land parcels in this study were mainly distributed in high-altitude areas, which corresponds to the study in Saudi Arabia, where the north and northwest of Saudi Arabia, mainly the plateau and mountainous areas, were considered the most suitable areas for PV power stations .



## Gitega Communications PV Base Station Installation Budget

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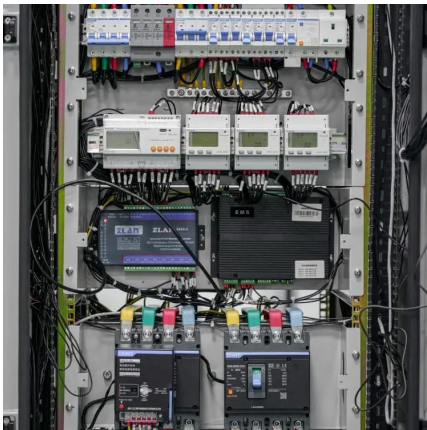
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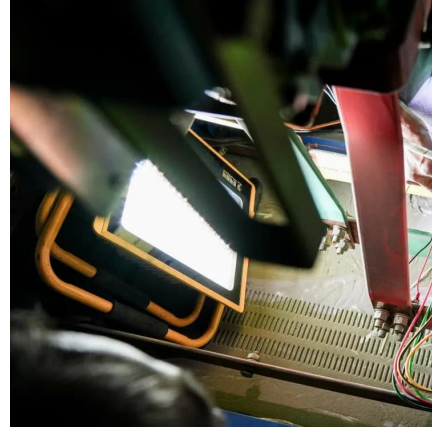
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