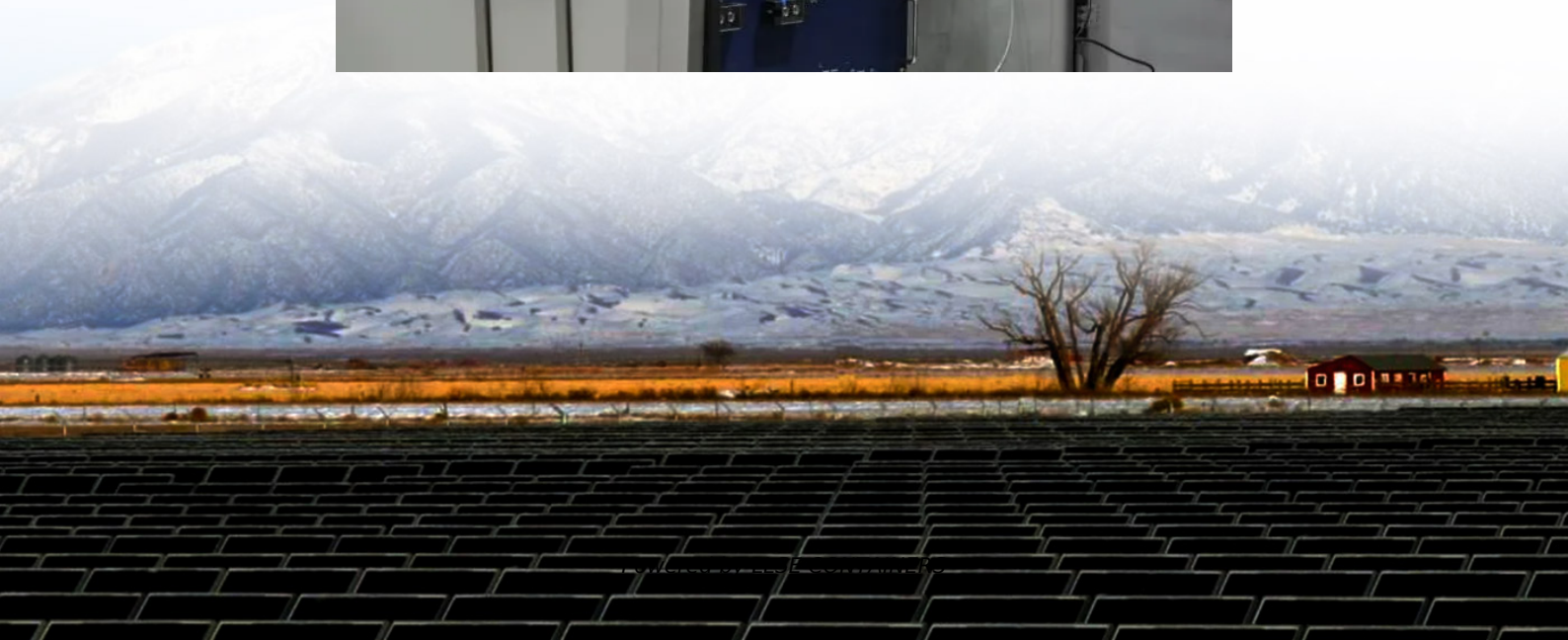


# **Outdoor base station solar power generation**





## Overview

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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.

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.

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 low irradiance base station install more PV?

The proposed evaluation method achieves a balance in LCC, initial investment, return on investment, and carbon emissions. From the perspective of LCC and carbon emissions, base stations with lower annual irradiance levels can install more PV.



## Outdoor base station solar power generation

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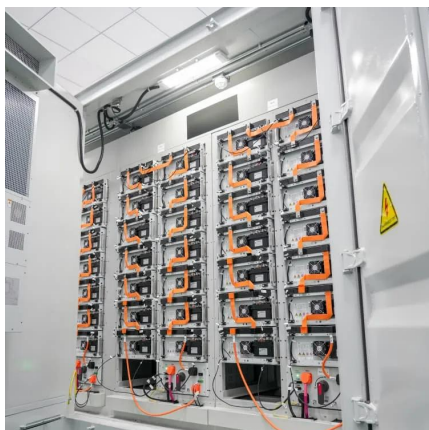
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