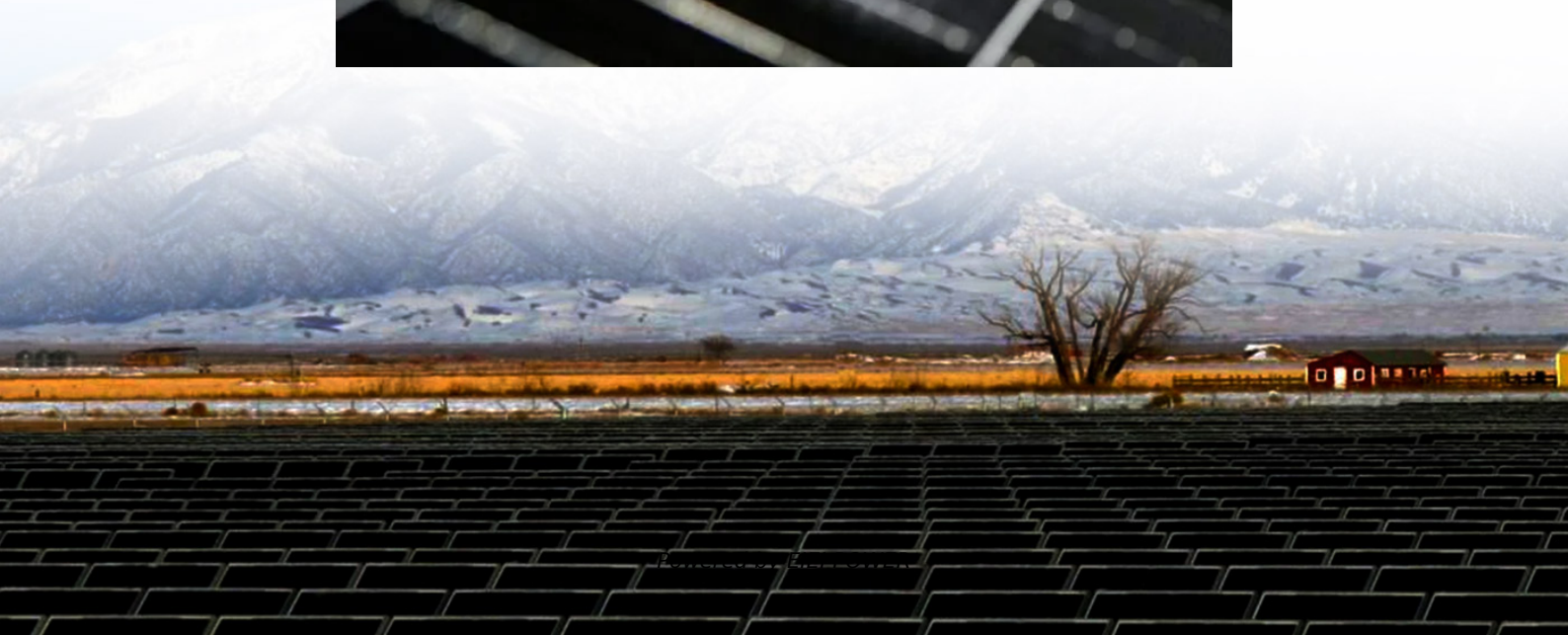


# **5G base station electrical adjustment principle**





## Overview

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How to optimize energy storage planning and operation in 5G base stations?

In the optimal configuration of energy storage in 5G base stations, long-term planning and short-term operation of the energy storage are interconnected. Therefore, a two-layer optimization model was established to optimize the comprehensive benefits of energy storage planning and operation.

Will 5G base station energy storage contribute to demand response?

Reference revealed that the 5G base station energy storage could participate in demand response, and obtain certain benefits when it meets the basic power backup requirements.

What is a 5G base station energy storage device?

During main power failures, the energy storage device provides emergency power for the communication equipment. A set of 5G base station main communication equipment is generally composed of a baseband BBU unit and multiple RF AAU units. Equation 1 serves as the base station load model:.

What is a 5G base station energy consumption prediction model?

According to the energy consumption characteristics of the base station, a 5G base station energy consumption prediction model based on the LSTM network is constructed to provide data support for the subsequent BSES aggregation and collaborative scheduling.



## 5G base station electrical adjustment principle

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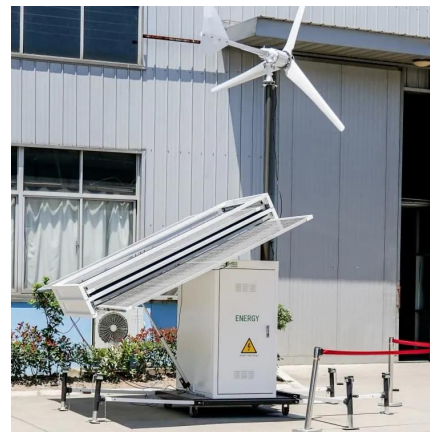


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