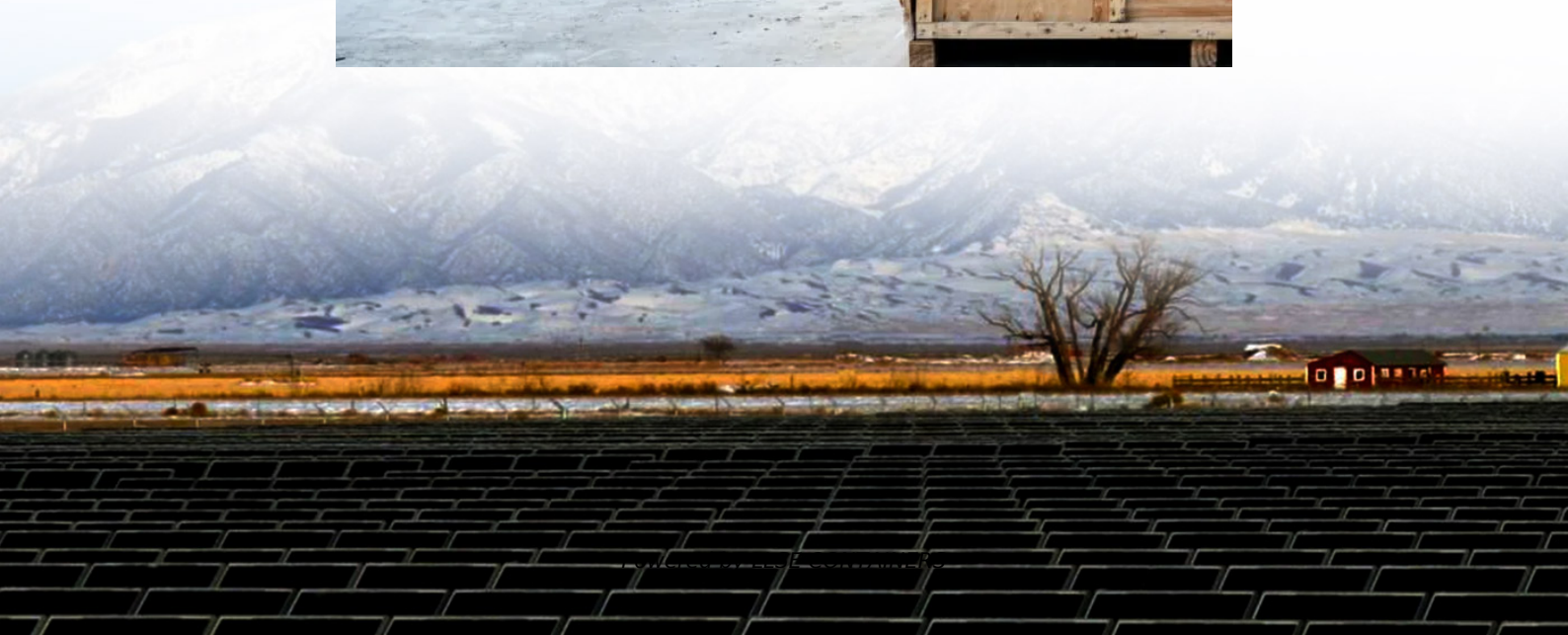


# **Base station power supply supporting budget plan**





## Overview

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Why do cellular base stations have backup batteries?

[. ] Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, the backup batteries of 5G BSs have some spare capacity over time due to the traffic-sensitive characteristic of 5G BS electricity load.

What is 5G base station?

5G base stations (BSs), which are the essential parts of the 5G network, are important user-side flexible resources in demand response (DR) for electric power system. However, a 5G BS has little and difference dispatchable potential, how to make massive 5G BSs participate in DR conveniently is an urgent problem to be solved.

How is the schedulable capacity of a standby battery determined?

In this article, the schedulable capacity of the battery at each time is determined according to the dynamic communication flow, and the scheduling strategy of the standby power considering the dynamic change of communication flow is proposed. In addition, the model of a base station standby battery responding grid scheduling is established.

Does a standby battery responding grid scheduling strategy perform better than constant battery capacity?

In addition, the model of a base station standby battery responding grid scheduling is established. The simulation results show that the standby battery scheduling strategy can perform better than the constant battery capacity. Content may be subject to copyright.



## Base station power supply supporting budget plan

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