



**SolarTech Power Solutions**

# 5g base station power trading



## Overview

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Will 5G base stations energy storage become a research hotspot?

As a result, 5G base stations energy storage will become a research hotspot as a new energy storage configuration subject to participate in the frequency regulation ancillary service.

Will 5G base stations increase electricity consumption?

According to the characteristics of high energy consumption and large number of 5G base stations, the large-scale operation of 5G base stations will bring an increase in electricity consumption. In the construction of the base station, there is energy storage equipped as uninterruptible power supplies to ensure the reliability of communication.

What is a 5G base station?

The base station is the physical foundation for the popularity of 5G networks. 5G base stations distribute densely in cities. According to the characteristics of high energy consumption and large number of 5G base stations, the large-scale operation of 5G base stations will bring an increase in electricity consumption.

Does a 5G base station promote frequency stability?

The proportion of traditional frequency regulation units decreases as renewable energy increases, posing new challenges to the frequency stability of the power system. The energy storage of base station has the potential to promote frequency stability as the construction of the 5G base station accelerates.

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).

Can auxiliary frequency regulation reduce frequency deviation of 5G base station?

Therefore, the strategy proposed in this paper can reduce frequency deviation of power system and auxiliary frequency regulation to maintain stable operation of power system. Taking the energy storage of 5G base station as the flexible FR resources, the control strategy of energy storage of 5G base station participating in FR is proposed.

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