

SolarTech Power Solutions

Inspection batch of energy equipment for communication base station energy storage system



Overview

How is a backup energy storage model established?

The backup energy storage model of the base station is established by combining the node vulnerability, load level and the communication volume of the corresponding area. The energy storage output range of the base station is finally determined.

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:

How to determine backup energy storage capacity of base stations?

For the determination of the backup energy storage capacity of base stations in different regions, this paper mainly considers three factors: power supply reliability of the grid node where the base station is located (grid node vulnerability), the load level of the grid node and communication load.

How can a base station save energy?

Energy saving is achieved by adjusting the communication volume of the base station and responding to the needs of the power grid to increase or decrease the charge and discharge of the base station's energy storage. However, the paper's pricing of energy interaction ignores the operating loss costs of the operator's energy storage equipment.

How does base station Energy Storage differ from traditional energy storage equipment?

However, base station energy storage differs from traditional energy storage equipment. Its capacity is affected by the distribution of users in the area where the base station is located, the intensity of communication services,

and the reliability of the power supply.

Does base station energy storage participate in the load power supply?

At this time, the base station energy storage not only participates in the load power supply, but also has certain absorption of wind-solar output when the wind-solar output is larger than the load demand (13:00,16:00). For scenario 3, it can be seen that the scenario has obvious complementary characteristics of the wind-solar power (5:00~20:00).

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