

Are there batteries in the hybrid energy room for mobile base station equipment





Overview

Can a virtual battery model be used for a base station?

Grounded in the spatiotemporal traits of chemical energy storage and thermal energy storage, a virtual battery model for base stations is established and the scheduling potential of battery clusters in multiple scenarios is explored.

What is a base station energy storage system?

A single base station energy storage system is configured with a set of 48 V/400 A-h energy storage batteries. The initial charge state of the batteries is assumed to obey a normal distribution, assuming that the base station has a uniform specification and its parameters are shown in Table 2. Table 2. Parameters of the energy storage system.

Why do communication base stations use battery energy storage?

Meanwhile, communication base stations often configure battery energy storage as a backup power source to maintain the normal operation of communication equipment [3, 4]. Given the rapid proliferation of 5G base stations in recent years, the significance of communication energy storage has grown exponentially [5, 6].

How many base stations are there in a virtual battery management system?

In Example 3, four scenarios are set up in the region, with a total of 40,000 base stations or 80,000 base stations distributed uniformly in two scales to access the virtual battery management system and participate in the scheduling. The internal parameters of the base stations are the same as those described in Section 4.2.



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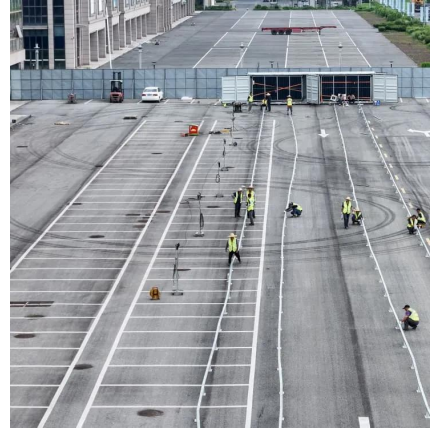
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