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Title: 5G Macro Base Station Data Center Battery Cabinet IP65 Leasing Service

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How to optimize 5G macro BS network?

Given the power profile and on/off state of each BS, the injected power of each BS, the on/off state of ACs, the charge/discharge power of backup batteries, and the power of renewable generation units during each time period are jointly optimized to achieve the goal of the economic operation of the 5G macro BS network.

How to reduce power consumption and electricity costs of 5G macro BS network?

In summary, with the proposed dispatching scheme, the power consumption and electricity costs of the 5G macro BS network can be reduced by taking advantage of the spatial and temporal fluctuations of the traffic load, the thermal inertia of the cabinets, and the storage of the backup batteries. 4.1.3.

What is a 5G macro BS homogeneous network?

The 5G macro BS homogeneous network is shown in Figure 1. The main energy-consuming equipment in a macro BS include the communications equipment, an AC, a backup battery, and a renewable generation unit.

What is 5G macro BS?

All BSs in the network are always in active mode, and the users in each cell are served by the 5G macro BS in the local cell; that is, user allocation is not performed, the transmission of electric energy among the BSs is not performed, the fixed-frequency commercial AC is temperature-controlled, and the set temperature is fixed.

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