

Uninterrupted power supply for solar container communication stations in the middle of the network

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Can a remote base station power supply be uninterrupted?

By Zhang Hongguan & Zhang Yufeng Uninterrupted power supply for remote base stations has been a challenge since the founding of the wireless industry, but alternative sources have a chance of succeeding where traditional solutions have failed.

How does a solar power supply work?

Solar or power grid electricity powers the base station and charges the batteries, with solar having priority. Only when neither proves sufficient will the batteries be utilized. Huawei's PowerCube hybrid power supply solution has been widely recognized for its remote-station viability.

How many power supply combinations are there in a base station?

For base stations, there are six power supply combinations—solar-only, solar+diesel, solar+mains, etc. Solar-only When there is sufficient sunlight, photovoltaic cells convert solar energy into electric power. Loads are powered by solar energy controllers, which also charge the batteries.

What happens if a base station doesn't get enough sunlight?

When sunlight is not sufficient, the batteries will take over. Considering that remote base stations must be highly-integrated, inexpensive, and modest, Huawei has developed its all-on-pole EasySite solution, which integrates the base station, antennas, transmission, and tower into one convenient package.

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