

Venezuela Communications 5G base station built photovoltaic





Overview

Base station operators deploy a large number of distributed photovoltaics to solve the problems of high energy consumption and high electricity costs of 5G base stations. In this study, the idle space of the

Do 5G base stations use intelligent photovoltaic storage systems?

Therefore, 5G macro and micro base stations use intelligent photovoltaic storage systems to form a source-load-storage integrated microgrid, which is an effective solution to the energy consumption problem of 5G base stations and promotes energy transformation.

What is a 5G photovoltaic storage system?

The photovoltaic storage system is introduced into the ultra-dense heterogeneous network of 5G base stations composed of macro and micro base stations to form the micro network structure of 5G base stations .

Does a 5G base station microgrid photovoltaic storage system improve utilization rate?

Access to the 5G base station microgrid photovoltaic storage system based on the energy sharing strategy has a significant effect on improving the utilization rate of the photovoltaics and improving the local digestion of photovoltaic power. The case study presented in this paper was considered the base stations belonging to the same operator.

What happens if a base station does not deploy photovoltaics?

When the base station operator does not invest in the deployment of photovoltaics, the cost comes from the investment in backup energy storage, operation and maintenance, and load power consumption. Energy storage does not participate in grid interaction, and there is no peak-shaving or valley-filling effect.

How 5G base station microgrid power backup works?

The charging and discharging actions of energy storage meet the



requirements of various 5G base stations for microgrid power backup. During the low electricity price period, the 5G base station microgrid purchases electricity from the grid to meet the power demand of the base station.

What is P0 in 5G microgrid?

P0 is the base power consumption generated by the four base stations when there is no traffic load. In the 5G base station microgrid, the traffic of the macro and micro base stations exhibits obvious periodicity in time, and the upward and downward trends are in step.



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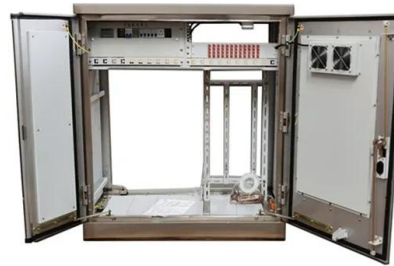
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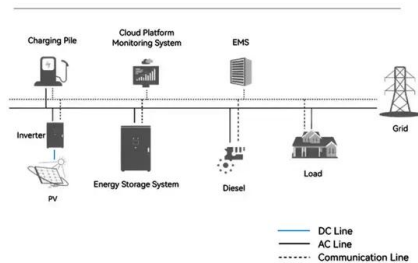
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System Topology



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