

Power level of solar energy storage power station





Overview

How many mw can a power station produce?

The power station can produce 1,200 MW (=4 units * 300 MW/unit) of hydropower and regulate storage capacities of about 8.5 million m³ and 8.7 million m³ in upstream and downstream reservoirs, respectively. The upstream reservoir possesses an emergency reserve storage of 0.5 million m³ to tackle emergency incidents.

How to calculate residual power load in PSP station?

Considering the PS-VF operation of PSP station, the residual power load is obtained by utilizing the total power load to subtract the sum of pumped-storage output, hydropower load, wind power load, photovoltaic power load, biomass power load, energy input outside the region and energy input within the region.

What are the stable statuses of a power generation unit?

The stable statuses of four units consist of power generation, pump storage, phase modulation and machine halt (Table 2). In general, units cannot operate in the phase modulation for a long time under pump storage status. Rotating backup for power generation cannot be substituted by unit idling or phase modulation in power generation.

How can a PSP station reduce residual load volatility?

The goal of optimal PSP station operation is to reduce the residual load volatility by first absorbing other renewable energy inputs. This study collected 245,280 power load datasets (=7 factors * 365 days * 96 time steps) of the Hunan province grid in 2022.



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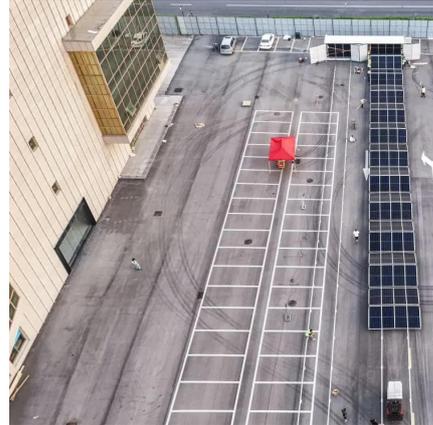
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