



BUHLE POWER

Steel structure solar power generation system





Overview

How to identify steel plants suitable for integration with photovoltaic power plants?

Analytic hierarchy process (AHP) is then used to identify the steel plants suitable for integration with photovoltaic power plants. The EDSAC evaluation model sets five assessment indicators: emission reduction effectiveness, distance effectiveness, supply effectiveness, anti-volatility effectiveness, and cost effectiveness.

How a solar energy storage center works?

In areas where steel plants are scattered, the energy storage center can be placed closer to the photovoltaic power plants, where the electricity generated by the solar plants is first consolidated in the storage center and then directly transmitted to the steel plants via the existing grid.

What factors affect the integration of steel plants with photovoltaic power plants?

This paper comprehensively considers five factors in the matching results: carbon reduction, electricity transmission, supply conditions, grid fluctuations, and cost. Analytic hierarchy process (AHP) is then used to identify the steel plants suitable for integration with photovoltaic power plants.

Does southwestern China have an advantage in photovoltaic power generation?

The southwestern region, represented by Sichuan and Chongqing, has no clear advantage in terms of steel plants or photovoltaic resources. The integration of photovoltaic power generation and steel production clusters can be a key consideration.



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Photovoltaic Power Generation

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