

Male Northwest solar Energy Storage Power Station





Overview

Is northwest China a good place for solar energy development?

Northwest China has abundant solar energy resources and extensive land, making it a pivotal site for solar energy development. However, restrictions on site selection and severe weather conditions have hindered the establishment and operation of photovoltaic (PV) power stations.

Is Gobi desert suitable for photovoltaic power stations?

Development of improved site suitability map using comprehensive indicator system. Gobi Desert shows high suitability for construction of photovoltaic power stations. Solar energy generation can meet projected demand and reduce carbon emissions.

What percentage of PV power stations are located on grasslands?

The statistical results showed that in 2020, 40.89 % of PV power stations were established on grasslands, 24.88 % on croplands, 17.01 % and 14.14 % on barren lands and buildings, 2.12 % on water, and only 0.96 % on forests or shrubs. Fig. 11. The statistics of land-use coverage type occupied by China's PV power stations in 2020. 3.3.

How big is China's PV power station?

China's total PV power station area in 2020 was estimated as 2635.64 km². China's PV power generation in 2020 was calculated to be 238.65 TWh. This power amount is equivalent to reducing carbon emissions by 149.63 million tons. Evaluation results favor Sustainable Development Goals and carbon neutrality.



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