

Which regions are suitable for solar energy development?

The region of Southwest China, and Tibet in particular, also has a large area suitable for PV solar development (over 5000 km<sup>2</sup>) where the capacity factor exceeds 0.15. There is no land suitable for solar energy development with a capacity factor of 0.15 or more in the regions of East China and Central China. Fig. 5.

Does China have a commitment to building renewables projects?

The stark contrast in construction rates illustrates the active nature of China's commitment to building renewables projects. Utility-scale solar and wind power capacity in construction, by country Utility-scale solar and wind power capacity in the top ten countries broken down by status, in gigawatts (GW)

What is the regional distribution of photovoltaic power stations in China?

In general, the regional distribution of photovoltaic power stations in China is quite different, and the regional competition patterns are variable. Provinces with high installed photovoltaic power stations and high regional competition are mainly located in Northwest and North China.

Does low emission scenario favor the implementation of solar energy in China?

This suggests that the low emission scenario generally favors the implementation of solar energy in China; and therefore, if this can be achieved, the expectation is that the goal of accelerating the development of distributed energy in east and central China can be reached.

Where are the cold spots of photovoltaic installation in China?

South China and Southwest China, including Guangxi, Guangdong, Fujian and Chongqing are generally the cold spots of photovoltaic installation, with relatively small installed capacities at each stage. Fig. 3. Moran scatter of China's provincial photovoltaic installation.

Can photovoltaic power stations promote China's low-carbon transition?

To promote China's low-carbon transition, the construction of photovoltaic power stations is practical in various provinces of China. Since the photovoltaic power stations can maintain 25 years, the cumulative emission reduction potentials can be quantified to measure the contribution to low-carbon transition.



# Chendai Four Regions Solar Power Generation

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