

Price of photovoltaic panels of China Southern Power Grid

Is China a major market for solar photovoltaics?

Provided by the Springer Nature SharedIt content-sharing initiative In recent years, China has become not just a large producer but a major market for solar photovoltaics (PV), increasing interest in solar electricity prices in China.

What is the role of solar photovoltaic power generation in China?

Among alternative sources, solar photovoltaic (PV) power generation is expected to play an important role in this process in China given abundant solar resources and huge PV manufacturing capacity (7 - 10).

Does China have a price threshold for solar power?

The cost of solar PV electricity generation is affected by many local factors, making it a challenge to understand whether China has reached the threshold at which a grid-connected solar PV system supplies electricity to the end user at the same price as grid-supplied power or the price of desulfurized coal electricity, or even lower.

How much solar energy does Chongqing receive?

Chongqing is in the eastern part of the Sichuan Basin and receives on average 107 W m⁻² solar radiation 24 with 732 kWh kW⁻¹ yearly solar energy conversion, from our calculations (Methods). Among all of the provinces, Chongqing has the lowest average solar availability capacity (<100 GW 25).

What is the Solar Energy Curtailment rate in China?

In the year of 2017, the quantity of the solar energy curtailment was 7300 GW h in China and the rate of solar energy curtailment was about 6%. The quantity of solar energy rejection in the northwest reaches 6670 GW h, accounting for 91.4% of the total quantity of solar energy curtailment.

What is the installed capacity of photovoltaic power generation in China?

According to the statistics released by the National Energy Administration (NEA) in 2017, the cumulative installed capacity of photovoltaic power generation in the northwest of China was 35.03 GW, accounting for 26.89% of the total installed capacity of PV power generation in the whole country.

5 · China Southern Power Grid, one of the country's two major power grids, vowed to invest 670 billion yuan (\$105 billion) recently in grid network construction during the 14th Five-Year Plan period (2021-25) to ensure power ...

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