

Is Xinjiang a good place for solar energy?

Compared with the solar energy resources of other provinces in China, Xinjiang is one of the richest regions in China in terms of solar energy resources. In particular, the solar radiation in the south of Xinjiang is similar to that in Tibet [55].

What is the potential of solar PV power generation in Xinjiang?

(3) In the situation where the construction of PV power plants in Xinjiang is fully developed, the theoretical potential of annual solar PV power generation in Xinjiang is approximately  $8.57 \times 10^6$  GWh. This is equivalent to  $2.59 \times 10^9$  tce of coal. Furthermore,  $6.58 \times 10^9$  t of CO<sub>2</sub> emissions can be reduced.

How much green energy does Xinjiang have?

According to Wang, the base can generate about 2.1 billion kWh of electricity from green energy annually, nearly 4.5 percent of Shihezi's total electricity output in 2022, saving 650,000 tonnes of standard coal. Xinjiang's installed power capacity from new energy sources has surpassed 62 million kilowatts.

Can Xinjiang meet its annual electricity demand?

Therefore, a progress level of 25% in Xinjiang was fully capable of satisfying Xinjiang's annual electricity demand. In terms of PV power generation,  $2.14 \times 10^6$  GWh of PV power generation is equivalent to  $6.48 \times 10^8$  tce of coal combustion for coal-fired power generation.

Where is Huadian Xinjiang wind power plant located?

Located in the Mulei wind-solar-electricity industrial park, Huadian Xinjiang Power Generation Co is building an 800,000 kilowatt wind power plant and a 250,000 kilowatt photovoltaic plant.

How many kilowatts does Xinjiang have?

According to data from the National Energy Administration, in the first half, Xinjiang's newly installed capacity of new energy reached 14.08 million kilowatts, including 4.28 million kilowatts of wind power and 9.8 million kilowatts of PV power, up 103 percent year-on-year.



# South Xinjiang Solar Power Generation Base

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