

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).

Is China a leader in solar power?

With its total installed capacity of solar PV surpassing that of the United States in 2013 and Germany in 2015 (15,16), China has maintained its leading global position in terms of not only the deployment of solar power but also the manufacture of PV modules.

Why is solar PV power generation nowcasting important?

Thus, sophisticated solar PV power generation nowcasting technique not only can improve the stability of power generation, but also facilitates the developments of more commercially viable PV systems, the current electricity market and price transactions, and increases the competitiveness of the solar PV energy source 15,16.

What is the nominal power per unit area of solar module?

The nominal power per unit area of solar module was quantified from 2020 to 2060 assuming increasing efficiency of conversion of solar radiation to electricity. The national potential installed capacity (kW) in the year t (2020 to 2060) was aggregated spatially:

Can solar power be used in southern power grids?

By contrast, the potential of solar PV to serve power demand in southern power grids is relatively low, especially for the East China grid, which accounts for 20.7% of national electricity demand, 18.9% of the population, and 27.5% of gross domestic product.

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