

What is the potential of solar power generation in China?

Chen et al. developed a comprehensive solar resource assessment system based on the GIS +MCDM method in 2019. This system was applied to the assessment of the potential of PV power generation in the countries under the "Belt and Road" initiative. The results showed that the PV potential of China is 100.8 PWh.

Which land is suitable for PV power generation in China?

The results showed that the average suitability score of land in China is 0.1058 and the suitable land for PV power generation is about 993,000 km<sup>2</sup> in 2015. The PV power generation potential of China is 131.942 PWh, which is approximately 23 times the electricity demand of China in 2015.

Does land cost affect PV power generation in China?

In China, the right to use the land for installing PV facilities needs to be leased or purchased. Therefore, the cost of land is also an important factor affecting the suitability of land for PV power generation in China. This study uses land prices to measure the cost of land.

Where is solar power generated in China?

Fig. 2. Spatial distribution of annual theoretical power generation of China in 2015. The results of theoretical PV power generation show that the high-value areas are mainly concentrated in the Qinghai-Tibet Plateau, followed by Northwest China and Yunnan, where are rich in solar radiation resources.

How is PV power generation potential assessed in China?

This study used a PV power generation potential assessment system based on Geographic Information Systems (GIS) and Multi-Criteria Decision Making (MCDM) methods to investigate the PV power generation potential in China.

What is the average LCOE of PV power generation in China?

According to statistics, the average LCOE of the ground PV stations in China is about 0.39 yuan/kWh by 2019, and it is expected that the LCOE of the PV power generation in China will be basically consistent with the average cost of coal-fired power generation by 2021. In this case, the PV subsidies may be canceled.

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In Section 4, the model is applied to the Jinghong-Ganlanba cascade hydropower system that complements wind and solar power. In Section 5, the influence of wind and solar factors on the model results are analyzed. The main ...

# Jinghong solar power generation system construction

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