

Solar power generation on the Yunnan-Guizhou Plateau

Where is the Yunnan-Guizhou Plateau located?

The Yunnan-Guizhou Plateau or Yungui Plateau (simplified Chinese: 云贵高原; traditional Chinese: 雲貴高原; pinyin: Yúnnán-Guǐzhōu Píngyuán) is a highland region located in southwest China. The region is primarily spread over the provinces of Yunnan and Guizhou.

Are photovoltaic power installations in Yunnan and Guangdong competitive?

For Yunnan, Guangdong, and Hubei, the photovoltaic power installations are at low levels with neighboring provinces, showing a relatively weak regional competition pattern. In addition, the photovoltaic power installation in different stages varied at the provincial level.

What is the climate like in the Yunnan-Guizhou Plateau & Sichuan Basin?

The Tibetan Plateau also experiences generally clear conditions, thereby enhancing the receipt of solar radiation. In contrast, the Yunnan-Guizhou Plateau and Sichuan Basin experience a monsoonal climate that, during the rainy season, results in high rainfall, cloudy days, and less direct sunshine, all of which serve to reduce surface insolation.

What is China Southern power grid?

China Southern Power Grid ("Southern Grid") is one of China's two major state-owned power distributors that serve five southern provinces: Guangdong, Guangxi, Yunnan, Guizhou and Hainan. The region has witnessed a rapid build-up of power generation capacity, from 275 GW in 2015 to 350 GW in 2020.

Are photovoltaic installation capacities of Hunan and Yunnan low?

Hunan, Yunnan, Guangdong, Chongqing as well as their surrounding areas show the significant low-low characteristics as cold spots, indicating that the photovoltaic installation capacities of Hunan, Yunnan, Guangdong, Chongqing and their surrounding areas are low.

What are the spatial-temporal characteristics of photovoltaic power installation in China?

According to the photovoltaic power installation distribution, the spatial-temporal characteristics of the photovoltaic power installation in China can be depicted. The photovoltaic power development stages could be classified into Full operation, Partial operation, Announced construction, Permitted construction, and Under construction.

2.1 Study site. The Yunnan-Guizhou Plateau, one of the four major plateaus in China, is located between 22°N and 30°N and between 100°E and 111°E, and it covers the ...

The Yunnan-Guizhou Plateau (YGP) is an important ecological region in southwestern China with frequent and severe droughts affecting its vegetation and ecosystem. Many studies have used ...

The YGP (22.52°-31.21°N, 100.03°-111.33°E) is situated in southwestern China and to the southeast of the TP. The YGP extends from the Hengduan Mountains in the ...

The hydro-wind-solar hybrid power generation system can be roughly ... Hubei, Yunnan, Guizhou, ... southeast in the southeast Qinghai-Tibet Plateau with a fall of 2560 m ...

The Yunnan-Guizhou Plateau (YGP) in China is well known for its extraordinary biodiversity, warm and humid climate, and abundance of stone materials and caves, which made it a "paradise for hunter-fisher-gatherers" ...

Spatial and temporal variations in daytime and night-time precipitation and differences in these variations between the dry and wet seasons were investigated based on a daily precipitation dataset comprising data from ...

The Yunnan-Guizhou Plateau, also known as Yungui Plateau, is a significant highland region in southwest China, spanning across the provinces of Yunnan and Guizhou. Here's an in-depth ...

Over the Yunnan-Guizhou Plateau, there is dominance of EPEs with a duration of less than 4 h, which starts in the afternoon (15:00-19:00 Beijing time). Meanwhile, the EPEs ...

Download scientific diagram | Power generation mix of: (a) Guangdong, (b) Yunnan, (c) Guizhou, and (d) the State Grid of China. from publication: A Comparison of Carbon Dioxide Emissions ...

Guizhou and Yunnan Provinces (Yungui Plateau) in Southwestern China are well known as biodiversity hotspots. We introduce two new species in this study viz., *Mucispora hydei* (in *Fuscosporellaceae* ...

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