



# Desert Solar Power Park

What is the Tengger Desert solar park?

**Project Background** The Tengger Desert Solar Park, also known as the "Great Wall of Solar," was constructed as part of China's efforts to transition to renewable energy and reduce its carbon footprint. It is fifth-largest globally and second-largest solar project in China.

How many solar panels are there in the desert?

Spanning approximately 1,200 km<sup>2</sup> within the vast 36,700 km<sup>2</sup> desert area, this project covers 3% of the desert with solar panels. With a capacity of 1,547 megawatts (MW) and featuring around 3.5 million solar modules, it is developed and operated by the State Grid Corporation of China and Zhongwei Power Supply Co.

What are the benefits of the Tengger Desert solar park?

**Benefits of this Project Renewable Energy Generation:** The Tengger Desert Solar Park generates 1.55 GW of clean electricity annually, powering approximately 600,000 households, significantly reducing carbon emissions and air pollution associated with conventional power generation.

Will China build a solar power plant in the desert?

China is investing heavily in UHV DC transmission lines, capable of transporting electricity over thousands of kilometers with minimal losses, allowing power generated in remote deserts to be delivered to urban centers. Midong is just the beginning. China has announced plans to build over 450 GW of solar and wind capacity in desert regions by 2030.

The Tengger Desert new energy base is the first to be approved, launched, and put into operation among the 10 million kW-level projects in desert and Gobi areas in China. It also serves as ...

The largest solar park in the world now stands in China's northwestern Ningxia province. Sprawling across 43 square kilometers (17 square miles), the Tengger Desert Solar Park provides ...

The first phase of the project was completed in April of last year, and so far, 2.06 billion kilowatt-hours of electricity have been delivered from the desert. In fact, numerous high-quality ...

China's vast desert solar farms are quietly rewriting the story of renewable energy. Beyond generating electricity, new research shows they are transforming the very land beneath ...

An aerial drone photo taken on Sept. 3, 2025 shows a photovoltaic and desertification control project in Kubuqi Desert, north China's Inner Mongolia Autonomous Region. (Xinhua/Li ...

The 1.5 GW Tengger Desert Solar Park, also known as Great Wall of Solar, is the largest solar PV power station in China.

Imagine standing in the middle of a vast desert, surrounded by an endless sea of solar panels, stretching beyond the horizon. This is not science fiction--it is the world's largest solar park, ...



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Spanning some 43 square kilometers (16.6 square miles) in the open desert--and supplying power to more than 600,000 homes--Tengger Desert Solar Park was constructed at a ...

China's "useless" desert now generates massive energy while sprouting new life. Desert solar panels create thriving ecosystems where barren land once stood. Nature is fighting back.

China transforms a desert into a solar panel paradise. Explore how this groundbreaking project reshapes the energy landscape. Join the movement!

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