



What are the power base stations in China's deserts





Overview

As one of China's first large-scale renewable energy bases with a capacity exceeding 10 gigawatts, the base is set to develop eight gigawatts of solar power, four gigawatts of wind power, and four gigawatts of supporting coal power.

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HOHHOT, Jan. 16 -- Deep in the Kubuqi desert in north China's Inner Mongolia Autonomous Region, rows of blue solar panels glisten under the winter sun, converting sunlight into electricity that flows into thousands of households. Beneath the panels, different types of shrubs stand tall despite.

HOHHOT, Sept. 5 (Xinhua) -- Seen from the air, 196,000 solar panels stretch across the Kubuqi Desert in a striking horse-shaped mosaic, while on the ground, visitors to Chaideng Village, Ordos City, stroll along the solar station and nearby farmstays, savouring local delicacies in what was once the.

In the Gobi Desert outside Golmud in the northwestern province of Qinghai, a row of white tanks stands tall in the open wilderness. Inside, air is compressed and cooled to -194 degrees Celsius (-317 Fahrenheit), and then it becomes liquid. When released, it expands by more than 750 times, drives.

China just connected its largest single-capacity solar farm built on a former coal mining area, which is in the Gobi Desert, to the grid. The Mengxi Blue Ocean Photovoltaic Power Station, located in Otog Front Banner, Ordos, Inner Mongolia, came online on November 5. With a massive installed.

At the recently concluded 2025 Ordos Two Sessions, officials revealed plans to implement 19 engineering projects under the "Three North" Shelterbelt Program (TSFP) in 2025. These initiatives aim to fully connect the northern-edge shelterbelt of Kubuqi, restore 5 million mu (about 333,333 hectares).



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[China's Desert Renewable Energy Revolution](#)

By using new technology and planning, China is turning deserts and old mining areas into sources of renewable energy. This not only helps the country but also sets an ...

[China's green energy solution powers sustainability ...](#)

China is leveraging its vast desert regions to develop large-scale solar and wind power bases that not only generate clean energy but ...



China's green energy solution powers sustainability while ...

China is leveraging its vast desert regions to develop large-scale solar and wind power bases that not only generate clean energy but also play a vital role in reversing ...

In the Gobi Desert, China is powering up the world's largest ...

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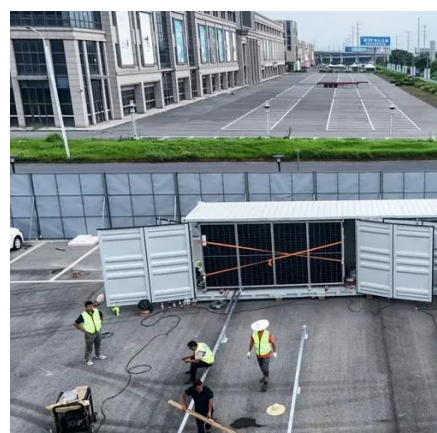


[China's 3GW Gobi Desert solar farm can power 2 million ...](#)

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Solar photovoltaic program helps turn deserts green in China: ...

Results show that PV power stations in China's 12 biggest deserts expanded from 0 to 102.56 km² from 2011 to 2018, mainly distributed in the central part of north China. The ...



[How China develops solar energy to turn Kubuqi ...](#)

China plans to build 450 gigawatts of solar and wind power generation capacity on the Gobi and other desert regions, the state ...

How China develops solar energy to turn Kubuqi Desert into an ...

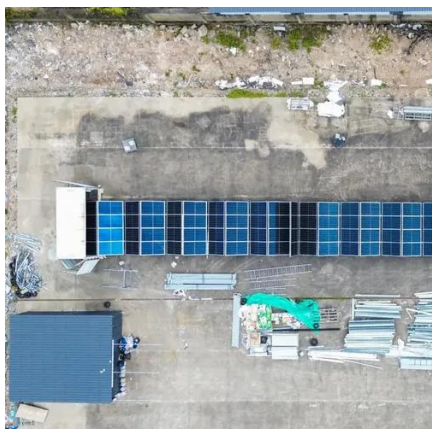


China plans to build 450 gigawatts of solar and wind power generation capacity on the Gobi and other desert regions, the state planner said in March.



Solar power projects drive ecological restoration in north China's deserts

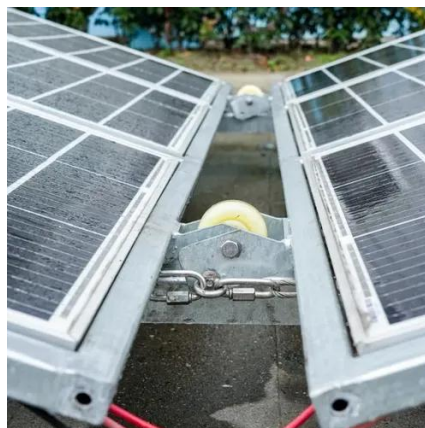
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[Desert-based renewable energy transmission base](#)

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China's first large-scale renewable energy export base in the Gobi Desert and other arid regions has officially begun operation.



Desert-based renewable energy transmission base in Xinjiang ...

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[China's 3GW Gobi Desert solar farm can power 2](#)

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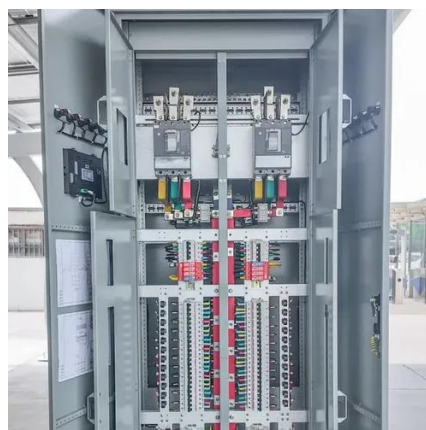


Exploring the 'Photovoltaic Great Wall' in China's seventh largest desert

According to reports, the 2-gigawatt project in Kubuqi is one of the first large-scale wind and photovoltaic power bases launched under China's 14th Five-Year Plan (2021-2025).

[Solar power project transforms desert into energy hub](#)

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