

China's first solar power battle



Overview

China's first major solar shakeout began in 2012. During the 2009–2010 frenzy, Chinese solar majors expanded rapidly, leveraged by debt, to meet European and U.S. demand, exporting 90 percent of their output. When the 2011 Eurozone crisis hit, solar subsidies were gutted. Wind and solar surpassed a quarter of China's electricity generation for the first time in April 2025. Its PV capacity crossed 1,000 gigawatts (one terawatt, 1 TW) in May 2025. China's first renewable energy power base in the country's Gobi Desert and other arid regions was connected to the grid and started generating power on Tuesday, said its operator China Energy Investment Corp, or China Energy. 84 terawatts by December 2025, according to data released by the National Energy Administration on January 28, marking a structural shift in the world's largest. as switched on a world-first solar thermal power station, located in the Gobi Desert. The station is said to be a cheaper and more efficient use of solar technology with potential to be scaled up. Built by the China Three Gorges Corporation, the plant in Guazhou county in northwestern Gansu. China's unprecedented renewable energy expansion has drawn global scientific acclaim, with top academic journals Science and Nature highlighting this week the country's clean power transition as one of 2025's most inspiring milestones.



Article Content

China's clean power shift hailed as scientific breakthrough ...

Renewables overtook coal as the world's top energy source for the first time this year, propelled by China's milestone of surpassing 1 terawatt of installed solar capacity in May, said the

Politics

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How China Became the World's Leader on Renewable

China has achieved stunning growth in its installed renewable capacity over the last two decades, far outpacing the rest of the world. But to end

"There is only one player": why China is becoming a world leader in ...

They are the reason China has already won the battle for the energy of the 21st century. "Keeping us hooked on fossil fuels": how can we negotiate with autocracies on the climate crisis?

China's Plans to Produce Renewable Energy in Space

China's solar venture in space Space-Based Solar Power (SBSP or SSP), the concept of gathering solar power in space using solar power satellites

China's Solar Power Generation Overtakes Wind for

China's solar power generation overtook wind for the first time last year as a boom in cheap panels continues to reshape the country's grid and

Facing China's solar power industry, EU advised to

EU should pick its battles with the world's second-largest economy and tie market access to technology sharing, economists say.

State of global solar energy market: Overview, China's role,

This article tackles the main challenges in the solar energy market and sheds light on the opportunities in that industry. The research results show that China controls the supply of primary

China flicks the switch on world-first thermal power

China has switched on a world-first solar thermal power station in the Gobi Desert that is said to be a cheaper and more efficient use of the technology

China's Solar, Wind Capacity Surpassed Coal Power for

China's wind and solar capacity surpassed coal for the first time in 2025, reaching 1.84 terawatts as installations hit record levels amid grid challenges.

China's Solar Industry Is in Upheaval—The Effects Will

China's first major solar shakeout began in 2012. During the 2009–2010 frenzy, Chinese solar majors expanded rapidly, leveraged by debt, to

China's Clean Energy Boom Could Win the Race to Power the Future

It's banking on a world that runs on cheap electricity from the sun and wind, and that relies on China for affordable, high-tech

China hits 1 TW solar milestone

China's solar power capacity has surpassed 1 TW, marking a historic milestone as the country accelerates its energy transition. Around 92 GW of new

China's world-beating solar industry is in turmoil

Yet China's solar industry, though world-beating, is in trouble. And the boost from the war has not been enough to steady it. China's solar exports have enjoyed a surge since the bombing

World's first solar thermal power station begins operation in China's ...

The design – and potentially multi-tower systems in the future – breaks the capacity limits of single-tower plants and opens a new path for scaling up solar thermal power in China, according to CCTV.

USA Versus China in 2025 and 2026 | NextBigFuture

Energy: China's cheap solar/batteries lower global renewable costs, enhancing competitiveness for energy-intensive industries (e.g., data centers).

Why China Built 162 Square Miles of Solar Panels on

China is using the high-altitude expanse for immense solar panel farms and wind turbines and has begun work on the world's largest hydroelectric

Solar power in China

Solar power in China China's solar potential Wind and solar surpassed a quarter of China's electricity generation for the first time in April 2025.

China's Clean Energy Boom Could Win the Race to Power the Future

In China, more wind turbines and solar panels were installed last year than in the rest of the world combined. And China's

First renewable energy power base in Gobi desert

As China plans to speed up the construction of solar and wind power generation facilities in the Gobi Desert and other arid regions amid efforts to

How China Came to Dominate the World in Solar Energy

The emphasis on solar power is the latest installment in a two-decade program to make China less dependent on energy imports. China's solar exports have already drawn urgent responses.

From seeding drones to solar farms: A look at China's battle against ...

East Asia From seeding drones to solar farms: A look at China's battle against desertification As of 2024, 53 per cent of China's desertified land has been reforested or stabilised.

China's wind + solar revolution is shaking up the global energy game

In the 12 months to June 2025, wind and solar generated more electricity than hydro, nuclear, and bioenergy for the first time. Just four years earlier, they produced only half as much. This...

China's Solar Power Capacity on Course to Surpass Coal This Year

China's solar generating capacity is expected to surpass coal for the first time this year, according to the country's top electricity industry group, marking a milestone in the country's...

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Taiping Rebellion

Inside China, the rebellion faced resistance from the traditionalist rural classes because of hostility to Chinese culture and Confucian values. The landowning

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