

China's first solar power station

OverviewHistorySolar resourcesSolar photovoltaicsConcentrated solar powerSolar water heatingEffects on the global solar power industryGovernment incentivesChina is the largest market in the world for both photovoltaics (PV) and solar thermal energy. Its PV capacity crossed 1,000 gigawatt (one terawatt, 1 TW) in May 2025. By June 2025, China's PV capacity surpassed 1,100 gigawatt. In 2024, China added 277 gigawatts (GW) of solar power, which was equivalent to 15% of the world's total cumulative installed solar capacity.

In 2025, China's first 100 megawatt molten salt tower solar thermal power station located on the vast Gobi Desert in Dunhuang, Gansu has been operating stably, becoming an important ...

China's Gobi Desert is home to a groundbreaking solar power station, a world-first design that slashes costs and significantly boosts energy efficiency.

Far off the coast of Shandong, a new kind of power plant is quietly feeding China's coastal cities. A vast field of solar panels, fixed to steel trusses in shallow water, has become the world ...

China launches the world-first dual-tower solar thermal power plant in the Gobi Desert. 27,000 mirrors focus sunlight to heat salt, generating steam for turbine

China has unveiled the world's first dual-tower solar thermal power station in the Gobi Desert, using 27,000 mirrors to generate renewable energy round the clock, a landmark in clean ...

China has reportedly developed the world's first dual-tower solar thermal plant near Guazhou County in Gansu Province to enhance efficiency and reduce carbon dioxide emissions.

In 2011, China owned the largest solar power plant in the world at the time, the Huanghe Hydropower Golmud Solar Park, which had a photovoltaic capacity of 200 MW. In 2018, it held the record again ...

Xizang broke ground on its first tower-type solar thermal power plant in Amdo county, marking a major milestone in high-altitude clean energy development.

In a first, China has switched on a solar thermal power station in the Gobi Desert, a project described as a more cost-effective and efficient use of the technology, with the potential to be scaled ...



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