

China's solar power generation shocked the world

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.

After substantial government incentives were introduced in 2011, China's solar power market grew dramatically: the country became the world's leading installer of photovoltaics in 2013.

China surpassed 1,000 GW of solar capacity in 2025, nearly half of the global total. Industrial policy, state-owned firms, and private innovators together fuel its leadership.

China is building an enormous network of clean energy industries on the Tibetan Plateau, the world's highest. The intention is to harness the region's bright sunshine, cold temperatures and...

By the first quarter of 2024, China's total utility-scale solar and wind capacity reached 758 GW, though data from China Electricity Council put the total capacity, including distributed solar, at ...

China's solar energy production is reaching simply staggering levels, dragging energy costs down around the globe.

China's installations of wind and solar in May are enough to generate as much electricity as Poland, as the world's second-biggest economy breaks further records with its rapid buildup of...

Between 2010 and 2024, China's solar photovoltaic manufacturing capacity exploded. (Photovoltaic cells, or solar cells, are the technologies that use sunlight to produce electricity.)

China is adding more solar and wind power to its energy grid than any other economy - but that huge buildout has its challenges. Here's what we can learn

Solar surged 64% in H1 2025 with 380 GW added worldwide, led by China's record pace, keeping 2025 on track for new highs.

China is already the undisputed leader of this trend. The People's Republic is adding more solar and wind capacity each year than the next ten countries combined. Last year alone, it invested ...



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