

China s current installed solar container capacity





Overview

As of May 2025, China has installed 1,080 GW of solar capacity, with May seeing China's largest monthly increase in operating capacity. China's annual solar additions jumped from 55 GW in 2021 to 88 GW in 2022 (+60%), surged to 216 GW in 2023 (+145%), and then reached 278 GW in 2024. Note: NEA considers utility-scale solar to include projects of at least six megawatts of installed alternating current capacity. Utility-scale solar power capacity in China reached more than 880 gigawatts (GW) in 2024, according to China's National Energy Administration. China has more utility-scale solar than any other country. The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as much as the total utility-scale solar capacity installed in the United States in 2024.

Global solar installations are breaking records again in 2025. In H1 2025, the world added 380 gigawatts (GW) of new solar capacity – a staggering 64% jump compared to the same period in 2024, when 232 GW came online. China was responsible for installing a massive 256 GW of that solar capacity. For. ded capacity over CY2024. 91% of December's added capacity came from zero-emissions sources, t 8.3GW of this, being 20% of new solar capacity additions over CY2024, was completed in the month of December alone. This is more than Australia's entire cumulative solar capacity install rom centralised. China is advancing a nearly 1.3 terawatt (TW) pipeline of utility-scale solar and wind capacity, leading the global effort in renewable energy buildout. This is in addition to China's already operating 1.4 TW of solar and wind capacity, nearly 26% of which (357 gigawatts (GW)) came online in 2024. China's cumulative installed solar capacity hit 886.66 GW at the end of 2024, with 277.17 GW of new annual installations, up 45.48% year on year. The deployment surge exceeded forecasts, setting a new historical record for PV installations. China's National Energy Administration (NEA) has released.

Utility-scale solar power capacity in China reached more than 880 gigawatts (GW) in 2024, according to China's National Energy Administration. China has more utility-scale solar than any other country. The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as



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Installed solar energy capacity

About this data Total solar capacity Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power.

China's installed power generation capacity up 18%

China's cumulative installed power generation capacity reached 3.69 billion kilowatts by the end of August, marking a year-on-year increase of 18 percent, official data showed on Friday. ...



China Energy Transition Review 2025 , Ember

China's wind and solar generation capacity more than doubled in the three years to 2024, from 635 GW to 1,408 GW. In early 2025, the capacity of wind and solar combined overtook that of coal.



Renewable energy accounts for 56 pct of China's total installed capacity

The newly installed capacity of renewable energy in 2024 accounted for 86 percent of China's total newly installed power capacity, while the



cumulative installed capacity of renewable ...



Chinese PV Industry Brief: China's solar capacity rises to 1.11 TW by ...

China's installed power capacity hit 3.67 TW by July, with solar at 1.11 TW, wind at 570 GW, and renewables providing nearly one-quarter of generation.

China's solar and onshore wind capacity reaches new ...

China is advancing a nearly 1.3 terawatt (TW) pipeline of utility-scale solar and wind capacity, leading the global effort in renewable energy buildout. This is in ...



China's solar capacity installations grew rapidly in 2024

China has more utility-scale solar than any other country. The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as much as the 121 GW of utility ...





H1 2025: China installs more solar than rest of the world combined

In the first half of 2025, the country installed more than twice as much solar capacity as the rest of the world combined, accounting for 67% of global additions.



Solar in China has become too big to fail

This factory can churn out enough of those photovoltaic (PV) cells in a week to build a power plant with a capacity of more than 500 megawatts--which is about as big as current solar ...

China's Newly Installed Renewable Energy Capacity Up 47.7% Year ...

In the first three quarters of 2025, China added 310 million kW of newly installed renewable energy capacity, representing a year-on-year increase of 47.7%.



MONTHLY CHINA ENERGY UPDATE , February 2025

In CY2024, China hit a new record of annual net new capacity added to the grid at 429GW, a 21% y-o-y increase. Of this, wind and solar power combined capacity accounted for 83% at 356.5GW, dwarfing ...



China's solar capacity installations grew rapidly in 2024

China's solar capacity installations grew rapidly in 2024 Data source: Through 2023: U.S. Energy Information Administration, International Energy Statistics (IES); 2024: China's National ...



Global solar installations surge 64% in first half of 2025

As a result, China added more than twice as much solar capacity as the rest of the world combined, making up 67% of the global total. In the first half of 2024, China made up 54% of global ...

China Wind & Solar brief July 2025

China's solar and wind operating capacity has soared to 1.4 TW and now accounts for 44% of the world's operating utility-scale solar and wind capacity, more than the combined total of the European ...

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