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Large solar panels on-site energy China



Overview

China added a record 60 GW of new solar capacity in the first quarter of 2025, with rooftop installations accounting for 36 GW – the highest quarterly total for distributed PV in the country’s history, according to Rystad Energy. How many solar panels are installed in China?

A recent report by Rystad energy shows that most rooftop systems are being installed for commercial and industrial (C&I) use. The total installed capacity of distributed solar in China is expected to reach 130 GW by the end of the year. This will include about 92 GW from C&I projects and 38 GW from residential users.

How much solar power did China install in the first quarter?

For more information, visit China installed a record 60 gigawatts (GW) of new solar photovoltaic (PV) capacity in the first quarter of 2025 – the highest ever recorded in a first quarter in the country’s history, according to Rystad Energy research and analysis.

Will China set a new record for solar power installations in 2024?

China is on track to set a new record for solar power installations in 2024, driven by falling production costs and increased global interest in renewable energy, said industry experts and company executives.

How big is China's rooftop solar system?

This was China’s largest- ever first-quarter addition. Rooftop solar systems contributed around 36 GW, which is 60% of the total capacity added. This increase in rooftop installations follows new policy guidelines announced in October 2024 by the National Energy Administration (NEA). These guidelines took effect in May 2025.

Does China have more utility-scale solar?

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-scale solar capacity installed in the United States at the end of 2024.

Will planned solar projects lead to continued growth in China's solar capacity?

Planned solar capacity projects will likely lead to continued growth in China's solar capacity. More than 720 GW of solar capacity are in development: about 250 GW under construction, nearly 300 GW in pre-construction phases, and 177 GW of announced projects, according to the Global Solar Power Tracker compiled by Global Energy Monitor.

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