

China s containerized solar panels for roofs





Overview

Can rooftop solar be deployed in China?

This study moves beyond technical estimates to assess the deployable rooftop solar potential across 367 Chinese cities, factoring in real-world constraints. The findings offer actionable insights to guide strategic deployment and support China's ambitious solar energy goals.

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.

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.

Why has rooftop PV soared in China?

Rooftop PV accounted for 60%, or 36 GW, of that total, marking the largest quarterly capacity addition for distributed PV in China's history. The surge was largely driven by the urgency to meet policy deadlines set by the National Energy Administration's (NEA) new guidelines, which were released in October last year and put into effect this May.



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mobile solar system project

Users deploy them flexibly on RVs, boats, or remote sites. Solar Con means containerized solar energy systems. These integrate mobile solar panels with batteries and controllers.



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