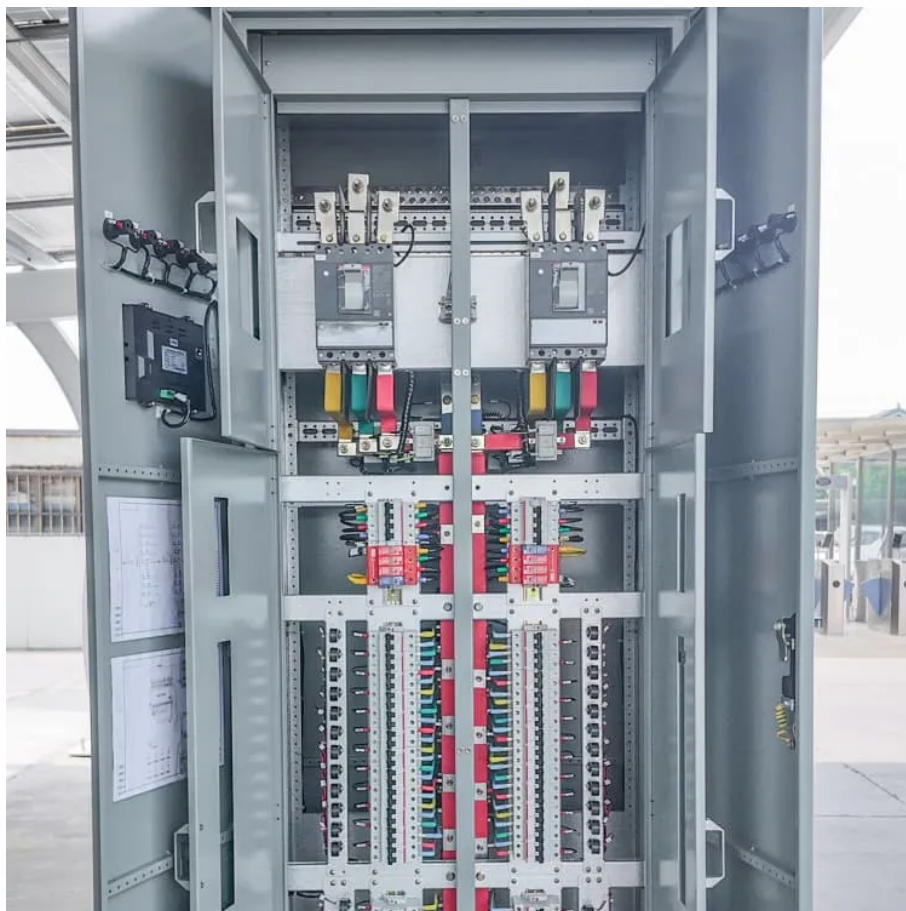


# Solar system installed capacity





## Overview

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How much solar capacity did the world add in 2025?

In the first six months of 2025, the world added 380 GW of new solar capacity — 64% higher than during the same period in 2024, when 232 GW were installed. In 2024, it took until September for global solar capacity additions to surpass 350 GW, while in 2025, the milestone was reached in June.

How many solar panels were installed in 2024?

In 2024, global cumulative PV capacity reached over 2.2 TW, with China alone surpassing 1 TW. At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW. China installed up to 357.3 GW, accounting for almost 60% of new global capacity.

How much solar capacity will China have in 2024?

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. Planned solar capacity projects will likely lead to continued growth in China's solar capacity.

How many GW of solar power does China have?

China added 357.3 GW—nearly 60 percent of the global total—surpassing 1 TW of cumulative capacity and accounting for nearly half the world's installed PV capacity by year-end. The rest of the world added 244.6 GW, bringing total non-China capacity to 1,198 GW. Europe, the United States and Brazil saw steady growth, the report said.



## Solar system installed capacity

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[Solar PV capacity new installations by country 2023, Statista](#)

In 2023, China installed the largest share of the world's new solar photovoltaic (PV) capacity, at 58 percent of the total capacity.

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[2024: Global Solar Capacity Tops 2.2 TW, ...](#)

Global cumulative solar photovoltaic (PV) capacity rose to more than 2.2 terawatts (TW) by the end of 2024, up from 1.6 TW in 2023, with over 600 GW of new systems commissioned, the International ...

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### Snapshot 2025

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[IEA: World reaches 2.2TW of cumulative installed solar capacity](#)

The world reached 2.2TW of cumulative installed solar capacity in 2024, with China alone accounting for 1TW of total operating capacity.

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[2024: Global Solar Capacity Tops 2.2 TW, With Over 600 GW ...](#)

Global cumulative solar photovoltaic (PV) capacity rose to more than 2.2 terawatts (TW) by the end of 2024, up from 1.6 TW in 2023, with over 600 GW of new systems ...

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[China's solar capacity installations grew rapidly 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 ...

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[Solar electricity installed capacity , 2023](#)

Official statistics by year of solar electricity installed capacity (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive analytical ...

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**Snapshot 2025**



In 2024, global cumulative PV capacity reached over 2.2 TW, with China alone surpassing 1 TW. At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 ...

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[Global solar installations surge 64% in first half of 2025](#)

World installed 380 GW of new solar capacity in first six months of 2025 Global solar installations are on track for another record year. In the first six months of 2025, the world ...

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