



Solar power generation capacity forecast





Overview

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. The. Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to EIA data reviewed by the SUN DAY Campaign, continuing their strong 2025 growth. EIA's latest monthly "Electric Power Monthly" report (with data through November 30, 2025), once again. China's total installed power capacity is forecast to reach about 4. 3 terawatts by the end of 2026 as China expects 300 GW to come from primarily wind and solar. The rest of the world was up 11% y/y. According to the 2025-2026 National Power Supply and Demand Analysis and Forecast Report released Monday by the China Electricity Council, wind and.



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[Global Market Outlook for Solar Power 2025-2029](#)

Cumulative solar PV capacity is expected to exceed most energy analysts' forecasts by 2030. If the solar market trajectory continues as projected, total global solar installations are set to ...

[China's solar power capacity to surpass coal in 2026](#)

China's installed solar power capacity is set to surpass coal for the first time in 2026.



[China Nears Historic Power Shift as Solar Overtakes Coal in 2026](#)

China's total installed power capacity is forecast to reach about 4.3 terawatts by the end of 2026 as China expects 300 GW to come from primarily wind and solar.



Global solar energy outlook

In the coming decade, solar PV is expected to continue being the largest contributor to global renewable energy installations, reaching a cumulative capacity of more than seven terawatts by



[IEA forecasts over 4,000GW of global photovoltaic \(PV\) ...](#)

Recently, the International Energy Agency (IEA) predicted that global photovoltaic solar power capacity additions will exceed 4,000 GW by 2030.



[Global renewable power installed capacity to surge to 11.2TW by 2035](#)

Driven primarily by declining costs and strong policy support, particularly for solar PV and wind energy, the global renewable power installed capacity is estimated to surge from 3.42TW in ...



[EIA: 99%+ of new US capacity in 2026 will be solar, wind](#)

Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to the latest EIA data.



[Renewable electricity - Renewables 2025 - Analysis](#)



Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...



[Solar power generation drives electricity generation growth over the](#)

Almost 70 gigawatts (GW) of new solar generating capacity projects are scheduled to come online in 2026 and 2027, which represents a 49% increase in U.S. solar operating capacity ...

Spring 2025 Solar Industry Update

- At the end of 2024, solar was the second-largest source of electricity generation capacity in the United States. o Over the next 2 years, virtually all new electric generation capacity ...





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