



Gigawatt Solar Power Outlook

What is the global market outlook for solar power 2025-2029?

The Global Market Outlook for Solar Power 2025-2029 paints a compelling picture of solar's trajectory as the cornerstone of the global energy transition. With nearly 600 GW installed in a single year, solar has entered a new era, one defined not by niche adoption or subsidy dependence, but by scale, competitiveness, and necessity.

How many gigawatts did the solar industry install in Q3 2025?

The U.S. solar industry installed 11.7 gigawatts(GW) of new capacity in Q3 2025, marking the industry's third-largest quarter on record and pushing total installations this year past 30 GW. U.S. Solar Market Insight is a quarterly publication of the Solar Energy Industries Association (SEIA) and Wood Mackenzie Power & Renewables.

How has solar impacted global power generation?

Regarding global power generation, solar nearly doubled its share over the past 3 years, growing by 1.3 percentage points only last year to a 7% share in the world's electricity mix. This growth continued to drive renewable penetration and pushed additions of conventional electricity sources to a new low.

How many GW of solar generating capacity will come online in 2026?

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 compared with the end of 2025. Much of the utility-scale solar generation capacity additions will come online in Texas.

Final Thoughts The Global Market Outlook for Solar Power 2025-2029 paints a compelling picture of solar's trajectory as the cornerstone of the global energy transition.

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). Growth in utility ...

Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. ...

Recently, the International Energy Agency (IEA) predicted that global photovoltaic solar power capacity additions will exceed 4,000 GW by 2030. In its flagship report Renewables 2024, the ...

Emerging solar era: The global expansion of solar PV and energy storage Solar PV installations are continuing to scale up globally, with an expected 8% increase from last year's record, reaching an ...

China and the US may be reducing policy support for the solar power sector, but Goldman Sachs Research still expects rapid growth, with solar installations set to rise by 57% between 2024 ...

Although the number of countries with annual gigawatt-scale solar markets has increased to 35, this is fewer

than anticipated. We do expect this to change in the near future; our report ...

The US solar industry also faces significant challenges due to recent federal actions, including proposed changes to tax credits that would effectively make them unusable for new ...

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Global solar energy outlook - statistics & facts In the last few years, solar energy has been the main driver for renewable energy growth worldwide.

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