



# Solar power generation market in the next decade





## Overview

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The International Energy Agency projects significant growth for photovoltaics (PV) in 2024 over the record-breaking year in 2023. Over the next two years, virtually all new electric generation capacity will be PV, batteries, and wind. 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. Government Incentives and Policies -. The International Renewable Energy Agency (IRENA) reports that, between 2010 and 2023, the global weighted average levelized cost of energy of concentrating solar power (CSP) fell from \$0. For the first time across a sustained period, renewables, including solar, wind, hydro and smaller.



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

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

### [Solar Power Market Size, Share, Trends, Growth Report \[2032\]](#)

In March 2023, President Joe Biden's clean energy plan stated that U.S. is intending to invest nearly a trillion dollars in clean energy and climate action over the next decade. Almost USD 5 ...



### [US solar industry to add 502 GW \(DC\) of capacity in next decade](#)

The research firm says the US solar industry will add 502 GW (DC) of capacity over the next decade, with annual installations surpassing 40 GWdc through 2035.



### [The Next Decade in Solar: 5 Key Trends Shaping the Future of Solar ...](#)

The solar energy revolution is accelerating faster than ever. With global solar capacity expected to triple by 2030 (IEA), the industry is undergoing rapid transformations--from ultra-efficient ...



## Global Market Outlook for Solar Power 2025-2029

Across all regions, developing a skilled workforce and setting ambitious solar and storage targets are essential tasks. In these times of political uncertainty, low-cost solar power could turn into ...



## Solar Market Insight Report Q4 2025

Longer term, the residential solar market will grow at an average annual rate of 7% between 2027 and 2030. Rising retail rates and declining solar costs will drive a recovery in ...



## [Highlights of the global energy transition in 2025 , Ember](#)

By 2024, the ten BRICS countries accounted for more than half of global solar generation - 51%, up from just 15% a decade earlier. This rapid rise signals a major shift in the centre of gravity ...



## [The Future of Solar Energy: Top Solar](#)



## Energy Trends in 2025

Explore the future of solar in 2025--key trends, new tech, and policies driving global clean energy growth.

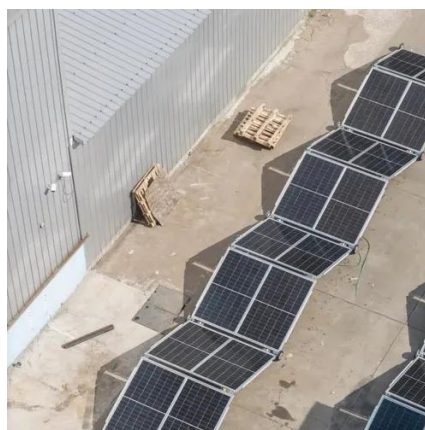


## Quarterly Solar Industry Update

Each quarter, NREL conducts a presentation of technical trends within the solar industry.

## 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 ...





## Contact Us

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