

# **World solar market report 2025**





## Overview

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Global Market Outlook for Solar Power 2025–2029 provides an in-depth forecast and analysis of the global solar power sector, with a special focus on India's rapid growth and emerging role as the world's third-largest solar market.

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In 2024, global photovoltaic capacity rose to more than 2.2 TW, up from 1.6 TW in 2023, with over 600 GW of new PV systems commissioned. This marks another record year for PV deployment, despite continued overcapacity in manufacturing and falling module prices that placed pressure on the entire.

The global solar industry has surpassed 2 terawatts of installed capacity—but asset performance isn't keeping pace. Over the past 5 years, equipment-driven underperformance increased by 214%, translating to potentially US\$10 billion of unrealized revenue for the industry in 2024. Raptor Maps' 2025.

The global solar pv market is poised for significant growth, starting at USD 51.46 billion in 2024, climbing to USD 52.44 billion in 2025, and projected to reach USD 53.43 billion by 2033, with a CAGR of 1.9%. Photovoltaic (PV) cells, also known as solar cells, are nonmechanical devices that.

Bringing together our regional expertise in the Americas, Europe, Asia Pacific, the Middle East and Africa, Wood Mackenzie's Global solar PV market outlook Q1 2025 breaks down how the key policy, supply chain, finance and other market developments from the past quarter will affect solar PV buildout. What is the global market outlook for solar power 2025–2029?



The Global Market Outlook for Solar Power 2025–2029 is SolarPower Europe's flagship annual publication, delivering the most authoritative analysis of solar market trends worldwide. The 2025 edition reports a record 597 GW of solar capacity installed in 2024, bringing total global capacity to 2.2 TW.

How will the global solar market evolve in 2025?

In 2025, the global solar market will continue to grow, with policy support, technological advancements, and increasing demand as key driving forces. To navigate evolving market conditions, companies must remain adaptable, leverage new opportunities, and drive sustainable industry development.

How big is the global solar PV market compared to 2024?

Industry forecasts suggest that global solar PV installations could reach 531-583 GW, representing an approximate 10% year-on-year increase. Although the growth rate may slow compared to 2024, the market remains full of opportunities, driven by policy support, rising demand in emerging markets, and technological advancements. 1.

Is the global solar industry performing well in 2024?

The global solar industry has surpassed 2 terawatts of installed capacity—but asset performance isn't keeping pace. Over the past 5 years, equipment-driven underperformance increased by 214%, translating to potentially US\$10 billion of unrealized revenue for the industry in 2024.

How can solar companies stay ahead in 2025?

To stay ahead, solar companies must focus on technological innovation, supply chain optimization, and global market expansion. In 2025, the global solar market will continue to grow, with policy support, technological advancements, and increasing demand as key driving forces.

What is the growth rate of solar energy in 2025?

In the Worldwide Solar Energy market, electricity generation is projected to reach 1.39tn kWh in 2025. An annual growth rate of 7.39% is anticipated during the period from 2025 to 2029. As global awareness of climate change intensifies, countries worldwide are increasingly investing in solar energy solutions to achieve sustainable energy goals.



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### [Photovoltaic Market Outlook 2025 , StartUs Insights](#)

The photovoltaic industry is transforming energy production, driving sustainability, and improving energy independence. The 2025 Photovoltaic Market Outlook delves into emerging trends, technological advancements, and market ...

### **Wood Mackenzie predicts solar growth will stagnate in ...**

Wood Mackenzie's latest report forecasts that 493 GW (DC) of solar will be added throughout the world this year, compared to 495 GW in 2024. Solar module prices are expected to rise this year as



### **Solar Market Size, Share, Insight , Growth Report by ...**

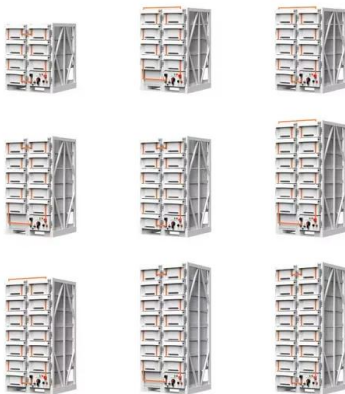
Solar Global Market Report 2025 - By Solar Module (Monocrystalline, Polycrystalline, Cadmium Telluride, Amorphous Silicon Cells, Other Solar Modules), By Technology (Photovoltaic Systems, Concentrated Solar Power ...

### [Global Solar Boom: ISA's Latest Report Highlights](#)

World Solar Market Report: Unprecedented Growth The World Solar Market Report documents a rapid rise in global solar capacity,



which has surged from 1.22 GW in 2000 to 1,418.97 GW by 2023. With 345.83 GW ...



### [Africa Market Outlook for Solar PV 2025-2028](#)

The Africa Market Outlook for Solar PV 2025-2028 provides an in-depth analysis of the region's solar growth, investment landscape, and policy frameworks. The report examines key markets, highlights emerging opportunities, and outlines ...

### **2025 Renewable Energy Industry Outlook , Deloitte Insights**

Deloitte's Renewable Energy Industry Outlook draws on insights from our 2024 power and utilities survey, along with analysis of industrial policy, tech capital, new technologies, workforce ...



### **World Solar Report**

The assembly elected France as co-president for the same period. About the Report The 3rd edition of the World Solar Report series consists of 4 reports: World Solar Market Report: It highlighted the increasing global solar capacity ...



## Global Solar Report 2025

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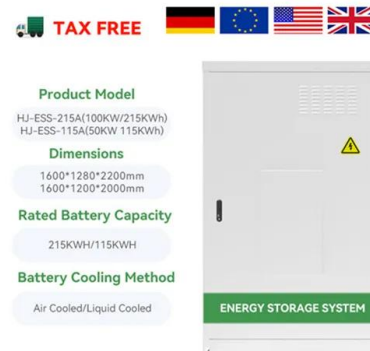
## Solar Energy Market Forecast And Industry Research Report 2025

Solar Energy Global Market Report 2025 - By Type (Solar Cell Panel, Solar Cell Paste, Solar Silicon Wafer), By Technology (Photovoltaic Systems, Concentrated Solar Power Systems), By ...



## Global solar PV market outlook update: Q1 2025

Bringing together our regional expertise in the Americas, Europe, Asia Pacific, the Middle East and Africa, Wood Mackenzie's Global solar PV market outlook Q1 2025 breaks down how the key policy, supply chain, ...



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