

# **Distributed Solar Market Size, Share & Trends Analysis Report By Product Type (Mono-Si, p-Si, a-Si, CPV), By End User (Residential, Commercial, Industrial, Utility), By Region, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

The global distributed solar market size was estimated at approximately USD 121.80 billion in 2024 and is projected to reach USD 193.83 billion by 2033, growing at a CAGR of 5.21% from 2025 to 2033. Market expansion is supported by rising electricity costs, growing consumer demand for decentralized clean power, and favorable policy frameworks across major economies.

Adoption is accelerating as commercial, industrial, and residential users increasingly deploy rooftop and onsite solar systems, benefiting from improvements in module efficiency, smart inverters, and the integration of energy storage. Government incentives, net-metering programs, and declining installation costs continue to improve the economic viability of distributed solar solutions. These developments, combined with advancements in digital energy management and grid-interactive technologies, are positioning distributed solar as a key enabler of long-term grid resilience and global renewable energy transition goals.

In North America, the distributed solar market is expanding steadily, supported by strong federal and state-level clean energy policies, declining solar installation costs, and rising demand for resilient, decentralized power systems. The U.S. continues to lead regional adoption through Department of Energy (DOE) initiatives, net metering programs, investment tax credits (ITC), and utility-backed distributed generation strategies aimed at enhancing grid reliability. Growing participation from commercial and industrial users, along with corporate renewable procurement commitments and

virtual power plant (VPP) programs, is further accelerating deployment.

The Asia Pacific region dominates the global distributed solar market, propelled by rapid urbanization, robust government targets for renewable energy expansion, and strong investment in decentralized power infrastructure. Countries such as China, India, Japan, and Australia are leading large-scale deployment through favorable rooftop solar policies, capital subsidies, time-of-day tariffs, and supportive net-metering regulations. China continues to set the pace with its extensive residential PV rollout, distributed energy trading pilots, and integration of distributed solar into smart grid modernization efforts. India is accelerating growth through rooftop solar schemes, corporate renewable power purchase agreements (PPAs), and large-scale solarization of commercial and industrial facilities. Japan and Australia are advancing the adoption of solar energy through high electricity prices, feed-in premium programs, and strong consumer demand for home solar-plus-storage systems.

## Global Distributed Solar Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global distributed solar market report on the basis of product type, end user, and region.

### Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Monocrystalline (Mono-Si)

Polycrystalline (p-Si)

Amorphous Silicon (a-Si)

Concentrated PV Cell (CPV)

### End User Outlook (Revenue, USD Million, 2021 - 2033)

Residential

Commercial

Industrial

Utility

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

India

Japan

South Korea

Latin America

Brazil

Middle East & Africa

Saudi Arabia

UAE

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