

Global Residential Solar Panels Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Residential Solar Panels market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.361 GW.

This report is a detailed and comprehensive analysis for global Residential Solar Panels market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Residential Solar Panels market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Residential Solar Panels market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Residential Solar Panels market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/W), 2020-2031

Global Residential Solar Panels market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/W), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Residential Solar Panels
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Residential Solar Panels market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Maxeon, LG, Silfab, Hanwha, Panasonic, REC, Trina Solar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Residential Solar Panels market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Monocrystalline Solar Panels

Polycrystalline Solar Panels

Thin-Film Amorphous Solar Panels

Other

Market segment by Application

Offline Sales

Online Sales

Major players covered

Maxeon

LG

Silfab

Hanwha

Panasonic

REC

Trina Solar

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Residential Solar Panels product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Residential Solar Panels, with price, sales quantity, revenue, and global market share of Residential Solar Panels from 2020 to 2025.

Chapter 3, the Residential Solar Panels competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Residential Solar Panels breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Residential Solar Panels market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Residential Solar Panels.

Chapter 14 and 15, to describe Residential Solar Panels sales channel, distributors, customers, research findings and conclusion.

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