

Global Solar PV Testing and Analysis Market Growth (Status and Outlook) 2025-2031

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Abstracts

The global Solar PV Testing and Analysis market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

Solar PV testing and analysis refers to the process of evaluating the performance, efficiency, and reliability of solar photovoltaic (PV) systems. It involves various tests and measurements to assess the functionality and quality of the PV modules, inverters, and other components of the system. Solar PV testing and analysis play a vital role in ensuring the optimal performance, safety, and longevity of solar PV systems, helping to maximize their energy generation and return on investment.

The testing and analysis of solar PV systems typically include the following:

1. **Performance Testing:** This involves measuring the electrical output of the PV modules under different conditions, such as varying levels of sunlight, temperature, and shading. It helps determine the system's energy production and efficiency.
2. **Electrical Safety Testing:** This includes checking the electrical connections, grounding, and insulation of the PV system to ensure it meets safety standards and regulations. It helps identify any potential electrical hazards.
3. **Durability Testing:** This involves subjecting the PV modules and other components to various environmental conditions, such as extreme temperatures, humidity, and mechanical stress, to assess their durability and reliability over time.
4. **Quality Assurance Testing:** This includes inspecting the PV modules for any

manufacturing defects, such as cracks, delamination, or hotspots, which can affect their performance and lifespan.

5. Inverter Testing: Inverters are an essential part of a solar PV system, as they convert the DC electricity generated by the PV modules into AC electricity for use in homes or businesses. Inverter testing involves evaluating their efficiency, power output, and compatibility with the PV system.

6. Performance Monitoring: Continuous monitoring of the solar PV system's performance is crucial to identify any issues or underperformance. This can be done through data logging, remote monitoring systems, or specialized software that tracks the system's energy production and efficiency.

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 117.38 GW.

LPI (LP Information)' newest research report, the "Solar PV Testing and Analysis Industry Forecast" looks at past sales and reviews total world Solar PV Testing and Analysis sales in 2024, providing a comprehensive analysis by region and market sector of projected Solar PV Testing and Analysis sales for 2025 through 2031. With Solar PV Testing and Analysis sales broken down by region, market sector and sub-sector, this

report provides a detailed analysis in US\$ millions of the world Solar PV Testing and Analysis industry.

This Insight Report provides a comprehensive analysis of the global Solar PV Testing and Analysis landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Solar PV Testing and Analysis portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar PV Testing and Analysis market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar PV Testing and Analysis and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar PV Testing and Analysis.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar PV Testing and Analysis market by product type, application, key players and key regions and countries.

Segmentation by Type:

Functional Testing

Performance Testing

Durability Testing

Certification Services

Segmentation by Application:

Electricity

Automobile

Aerospace

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Bureau Veritas

T?V Rheinland

SGS SA

TEKTRONIX

SolarEdge Technologies

Newport

Keysight Technologies

National Instruments

Jabil

CPS National

Standardisation Testing and Quality Certification (STQC)

Intertek

Aescusoft

DEKRA

Strathmore University Energy Research Centre

The National Renewable Energy Centre of Spain (CENER)

CLP e Solutions

EAG Laboratories

NTS

Pvinsight

ICAS

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