

Global Solar Nowcasting Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solar Nowcasting market size is predicted to grow from US\$ 2357 million in 2025 to US\$ 3592 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

Solar nowcasting refers to the short-term prediction of solar energy generation, typically over minutes to a few hours. It involves using real-time data from weather satellites, ground-based sensors, and meteorological models to estimate the amount of solar radiation that will reach the Earth's surface. This is especially important for optimizing the performance of solar power plants and managing energy grids, as it helps anticipate fluctuations in solar energy due to changing weather conditions like cloud cover, atmospheric particles, and sun position. Accurate solar nowcasting ensures better integration of solar power into energy systems and enhances overall grid stability.

The global market for solar radiation nowcasting is experiencing robust growth, characterized by a competitive landscape populated by numerous players, diverse product types, and widespread applications. Based on satellite nowcasting utilizes satellite data to monitor and predict solar radiation; based on sky imager nowcasting relies on sky imagers to capture sky conditions for radiation prediction; based on machine learning nowcasting employs machine learning algorithms to analyze relevant data for more accurate forecasts. In addition, there are other product types such as those based on numerical weather prediction models.

Solar radiation nowcasting is mainly applied in photovoltaic power stations, which helps optimize the operation and management of power stations, improve power generation efficiency, and reduce costs. In addition, it is also used in commercial and residential sectors, such as helping commercial buildings and residential households reasonably

arrange the use of solar energy.

Europe, especially countries like Germany, Italy, and Spain, was the main concentration of the global solar radiation nowcasting market. The US market is also growing strongly, with a relatively fragmented competitive landscape. As the largest economy in the world, the US has a strong demand for energy, and with the continuous improvement of the proportion of solar energy in the energy structure, the market demand for solar radiation nowcasting is also increasing.

The Asia-Pacific region is showing great potential. Countries such as China and Japan have seen a continuous increase in the demand for solar radiation nowcasting with the rapid development of the solar photovoltaic and solar thermal utilization sectors. In particular, China has the world's largest solar photovoltaic installed capacity, and the demand for solar radiation nowcasting is huge. The market scale is expected to grow rapidly in the future, and the important position of the Asia-Pacific region in the global market will become more prominent.

LPI (LP Information)' newest research report, the “Solar Nowcasting Industry Forecast” looks at past sales and reviews total world Solar Nowcasting sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Nowcasting sales for 2026 through 2032. With Solar Nowcasting sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Nowcasting industry.

This Insight Report provides a comprehensive analysis of the global Solar Nowcasting 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 Nowcasting portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Nowcasting market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Nowcasting 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 Nowcasting.

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

Segmentation by Type:

Satellite-Based Nowcasting

Sky Imager-Based Nowcasting

Machine Learning-Based Nowcasting

Others

Segmentation by Core Technical Principle:

Physical Model-based Nowcasting

Data-driven Nowcasting

Hybrid Model-based Nowcasting

Segmentation by Prediction Time Scale:

Ultra-short-term Nowcasting

Short-term Nowcasting

Medium-short-term Nowcasting

Segmentation by Application:

PV Power Station

Commercial

Residential

Others

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.

Solargis

IBM Research

Reuniwatt

DNV?Solcast?

Open Climate Fix

NIWA

CSP Services

Vaisala Xweather

CalibSun

Fraunhofer ISE

Vaisala

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