

# Global Solar Nowcasting Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our latest research, the global Solar Nowcasting market size will reach USD million in 2031, growing at a CAGR of %over the analysis period.

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.

This report is a detailed and comprehensive analysis for global Solar Nowcasting market. Both quantitative and qualitative analyses are presented by company, 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 Solar Nowcasting market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Solar Nowcasting market size and forecasts by region and country, in

consumption value (\$ Million), 2020-2031

Global Solar Nowcasting market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Solar Nowcasting market shares of main players, in revenue (\$ Million), 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 Solar Nowcasting

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solar Nowcasting market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Solargis, IBM Research, Reuniwatt, DNV?Solcast?, Open Climate Fix, NIWA, CSP Services, Vaisala Xweather, CalibSun, Fraunhofer ISE, etc.

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

### Market segmentation

Solar Nowcasting 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

#### Satellite-Based Nowcasting

Sky Imager-Based Nowcasting

Machine Learning-Based Nowcasting

Others

#### Market segment by Application

PV Power Station

Commercial

Residential

Others

#### Market segment by players, this report covers

Solargis

IBM Research

Reuniwatt

DNV?Solcast?

Open Climate Fix

NIWA

CSP Services

Vaisala Xweather

CalibSun

Fraunhofer ISE

Vaisala

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

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

Chapter 2, to profile the top players of Solar Nowcasting, with revenue, gross margin, and global market share of Solar Nowcasting from 2020 to 2025.

Chapter 3, the Solar Nowcasting competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Solar Nowcasting market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Solar Nowcasting.

Chapter 13, to describe Solar Nowcasting research findings and conclusion.

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