

Global Solar Forecast and Nowcasting Market Research Report 2026(Status and Outlook)

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Abstracts

Solar forecast and nowcasting are important means to predict solar power generation, which play a crucial role in optimizing the operation and management of solar energy systems and ensuring grid stability. Solar Forecast refers to the process of gathering and analyzing data to predict solar power generation on various time horizons. It encompasses a wide range of time scales, including long - term forecasting (weeks, months, years), short - term forecasting (up to seven days ahead), and very - short - term forecasting (also known as nowcasting). Solar Nowcasting specifically refers to the prediction of solar power output over time horizons of tens to hundreds of minutes ahead, typically within 3 - 4 hours. Solar nowcasting services usually have a temporal resolution of 5 to 15 minutes, with updates as frequent as every minute. Accurate solar forecasts and nowcasts help photovoltaic (PV) power plants optimize their operation and management. For example, they can assist in scheduling maintenance to minimize potential losses, such as during periods of cloudy weather. In addition, they are of great significance for the efficient management of the electric grid. By predicting solar power generation, grid operators can better balance power supply and demand, reduce the impact of the intermittency of solar energy on the grid, and ensure grid stability. In the context of fluctuating energy prices, solar forecasts and nowcasts enable power producers to submit bids at the right time, maximizing earnings. At the same time, they can help reduce potential under - and over - delivery penalties from grid operators, thereby reducing costs.

The global Solar Forecast and Nowcasting market size was estimated at USD 2287.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Solar Forecast

and Nowcasting market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Solar Forecast and Nowcasting market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Solar Forecast and Nowcasting market.

Global Solar Forecast and Nowcasting Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Solargis
IBM Research

Reuniwatt
DNV?Solcast?
Open Climate Fix
NIWA
CSP Services
Vaisala Xweather
CalibSun
Fraunhofer ISE
Vaisala

Market Segmentation (by Type)

Satellite Data-based Nowcasting
Ground Observation Data-based Nowcasting
Multi-source Data Fusion Nowcasting

Market Segmentation (by Application)

PV Power Plant
Meteorological Service
Building Energy
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value
In-depth analysis of the Solar Forecast and Nowcasting Market
Overview of the regional outlook of the Solar Forecast and Nowcasting Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Solar Forecast and Nowcasting Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Solar Forecast and Nowcasting, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Solar Forecast and Nowcasting
- 1.2 Key Market Segments
 - 1.2.1 Solar Forecast and Nowcasting Segment by Type
 - 1.2.2 Solar Forecast and Nowcasting Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SOLAR FORECAST AND NOWCASTING MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Solar Forecast and Nowcasting Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Solar Forecast and Nowcasting Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SOLAR FORECAST AND NOWCASTING MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Solar Forecast and Nowcasting Product Life Cycle
- 3.3 Global Solar Forecast and Nowcasting Sales by Manufacturers (2020-2025)
- 3.4 Global Solar Forecast and Nowcasting Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Solar Forecast and Nowcasting Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Solar Forecast and Nowcasting Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Solar Forecast and Nowcasting Market Competitive Situation and Trends
 - 3.8.1 Solar Forecast and Nowcasting Market Concentration Rate

3.8.2 Global 5 and 10 Largest Solar Forecast and Nowcasting Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SOLAR FORECAST AND NOWCASTING INDUSTRY CHAIN ANALYSIS

4.1 Solar Forecast and Nowcasting Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SOLAR FORECAST AND NOWCASTING MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Solar Forecast and Nowcasting Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Solar Forecast and Nowcasting Market

5.7 ESG Ratings of Leading Companies

6 SOLAR FORECAST AND NOWCASTING MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Solar Forecast and Nowcasting Sales Market Share by Type (2020-2025)

6.3 Global Solar Forecast and Nowcasting Market Size by Type (2020-2025)

6.4 Global Solar Forecast and Nowcasting Price by Type (2020-2025)

7 SOLAR FORECAST AND NOWCASTING MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Solar Forecast and Nowcasting Market Sales by Application (2020-2025)

7.3 Global Solar Forecast and Nowcasting Market Size (M USD) by Application (2020-2025)

7.4 Global Solar Forecast and Nowcasting Sales Growth Rate by Application (2020-2025)

8 SOLAR FORECAST AND NOWCASTING MARKET SALES BY REGION

8.1 Global Solar Forecast and Nowcasting Sales by Region

8.1.1 Global Solar Forecast and Nowcasting Sales by Region

8.1.2 Global Solar Forecast and Nowcasting Sales Market Share by Region

8.2 Global Solar Forecast and Nowcasting Market Size by Region

8.2.1 Global Solar Forecast and Nowcasting Market Size by Region

8.2.2 Global Solar Forecast and Nowcasting Market Size by Region

8.3 North America

8.3.1 North America Solar Forecast and Nowcasting Sales by Country

8.3.2 North America Solar Forecast and Nowcasting Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Solar Forecast and Nowcasting Sales by Country

8.4.2 Europe Solar Forecast and Nowcasting Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Solar Forecast and Nowcasting Sales by Region

8.5.2 Asia Pacific Solar Forecast and Nowcasting Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Solar Forecast and Nowcasting Sales by Country
 - 8.6.2 South America Solar Forecast and Nowcasting Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Solar Forecast and Nowcasting Sales by Region
 - 8.7.2 Middle East and Africa Solar Forecast and Nowcasting Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SOLAR FORECAST AND NOWCASTING MARKET PRODUCTION BY REGION

- 9.1 Global Production of Solar Forecast and Nowcasting by Region(2020-2025)
- 9.2 Global Solar Forecast and Nowcasting Revenue Market Share by Region (2020-2025)
- 9.3 Global Solar Forecast and Nowcasting Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Solar Forecast and Nowcasting Production
 - 9.4.1 North America Solar Forecast and Nowcasting Production Growth Rate (2020-2025)
 - 9.4.2 North America Solar Forecast and Nowcasting Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Solar Forecast and Nowcasting Production
 - 9.5.1 Europe Solar Forecast and Nowcasting Production Growth Rate (2020-2025)
 - 9.5.2 Europe Solar Forecast and Nowcasting Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Solar Forecast and Nowcasting Production (2020-2025)
 - 9.6.1 Japan Solar Forecast and Nowcasting Production Growth Rate (2020-2025)
 - 9.6.2 Japan Solar Forecast and Nowcasting Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Solar Forecast and Nowcasting Production (2020-2025)

- 9.7.1 China Solar Forecast and Nowcasting Production Growth Rate (2020-2025)
- 9.7.2 China Solar Forecast and Nowcasting Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Solargis

- 10.1.1 Solargis Basic Information
- 10.1.2 Solargis Solar Forecast and Nowcasting Product Overview
- 10.1.3 Solargis Solar Forecast and Nowcasting Product Market Performance
- 10.1.4 Solargis Business Overview
- 10.1.5 Solargis SWOT Analysis
- 10.1.6 Solargis Recent Developments

10.2 IBM Research

- 10.2.1 IBM Research Basic Information
- 10.2.2 IBM Research Solar Forecast and Nowcasting Product Overview
- 10.2.3 IBM Research Solar Forecast and Nowcasting Product Market Performance
- 10.2.4 IBM Research Business Overview
- 10.2.5 IBM Research SWOT Analysis
- 10.2.6 IBM Research Recent Developments

10.3 Reuniwatt

- 10.3.1 Reuniwatt Basic Information
- 10.3.2 Reuniwatt Solar Forecast and Nowcasting Product Overview
- 10.3.3 Reuniwatt Solar Forecast and Nowcasting Product Market Performance
- 10.3.4 Reuniwatt Business Overview
- 10.3.5 Reuniwatt SWOT Analysis
- 10.3.6 Reuniwatt Recent Developments

10.4 DNV?Solcast?

- 10.4.1 DNV?Solcast? Basic Information
- 10.4.2 DNV?Solcast? Solar Forecast and Nowcasting Product Overview
- 10.4.3 DNV?Solcast? Solar Forecast and Nowcasting Product Market Performance
- 10.4.4 DNV?Solcast? Business Overview
- 10.4.5 DNV?Solcast? Recent Developments

10.5 Open Climate Fix

- 10.5.1 Open Climate Fix Basic Information
- 10.5.2 Open Climate Fix Solar Forecast and Nowcasting Product Overview
- 10.5.3 Open Climate Fix Solar Forecast and Nowcasting Product Market Performance
- 10.5.4 Open Climate Fix Business Overview
- 10.5.5 Open Climate Fix Recent Developments

10.6 NIWA

10.6.1 NIWA Basic Information

10.6.2 NIWA Solar Forecast and Nowcasting Product Overview

10.6.3 NIWA Solar Forecast and Nowcasting Product Market Performance

10.6.4 NIWA Business Overview

10.6.5 NIWA Recent Developments

10.7 CSP Services

10.7.1 CSP Services Basic Information

10.7.2 CSP Services Solar Forecast and Nowcasting Product Overview

10.7.3 CSP Services Solar Forecast and Nowcasting Product Market Performance

10.7.4 CSP Services Business Overview

10.7.5 CSP Services Recent Developments

10.8 Vaisala Xweather

10.8.1 Vaisala Xweather Basic Information

10.8.2 Vaisala Xweather Solar Forecast and Nowcasting Product Overview

10.8.3 Vaisala Xweather Solar Forecast and Nowcasting Product Market Performance

10.8.4 Vaisala Xweather Business Overview

10.8.5 Vaisala Xweather Recent Developments

10.9 CalibSun

10.9.1 CalibSun Basic Information

10.9.2 CalibSun Solar Forecast and Nowcasting Product Overview

10.9.3 CalibSun Solar Forecast and Nowcasting Product Market Performance

10.9.4 CalibSun Business Overview

10.9.5 CalibSun Recent Developments

10.10 Fraunhofer ISE

10.10.1 Fraunhofer ISE Basic Information

10.10.2 Fraunhofer ISE Solar Forecast and Nowcasting Product Overview

10.10.3 Fraunhofer ISE Solar Forecast and Nowcasting Product Market Performance

10.10.4 Fraunhofer ISE Business Overview

10.10.5 Fraunhofer ISE Recent Developments

10.11 Vaisala

10.11.1 Vaisala Basic Information

10.11.2 Vaisala Solar Forecast and Nowcasting Product Overview

10.11.3 Vaisala Solar Forecast and Nowcasting Product Market Performance

10.11.4 Vaisala Business Overview

10.11.5 Vaisala Recent Developments

11 SOLAR FORECAST AND NOWCASTING MARKET FORECAST BY REGION

11.1 Global Solar Forecast and Nowcasting Market Size Forecast

11.2 Global Solar Forecast and Nowcasting Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Solar Forecast and Nowcasting Market Size Forecast by Country

11.2.3 Asia Pacific Solar Forecast and Nowcasting Market Size Forecast by Region

11.2.4 South America Solar Forecast and Nowcasting Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Solar Forecast and Nowcasting by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Solar Forecast and Nowcasting Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Solar Forecast and Nowcasting by Type (2026-2035)

12.1.2 Global Solar Forecast and Nowcasting Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Solar Forecast and Nowcasting by Type (2026-2035)

12.2 Global Solar Forecast and Nowcasting Market Forecast by Application (2026-2035)

12.2.1 Global Solar Forecast and Nowcasting Sales (K Units) Forecast by Application

12.2.2 Global Solar Forecast and Nowcasting Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Solar Forecast and Nowcasting Market Size by Type (M USD)

Table 4. Global Solar Forecast and Nowcasting Market Size by Application

Table 5. Solar Forecast and Nowcasting Market Size Comparison by Region (M USD)

Table 6. Global Solar Forecast and Nowcasting Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Solar Forecast and Nowcasting Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Solar Forecast and Nowcasting Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Solar Forecast and Nowcasting Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Solar Forecast and Nowcasting as of 2025)

Table 11. Global Market Solar Forecast and Nowcasting Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Solar Forecast and Nowcasting Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Solar Forecast and Nowcasting Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Solar Forecast and Nowcasting Sales by Type (K Units)

Table 27. Global Solar Forecast and Nowcasting Market Size by Type (M USD)

Table 28. Global Solar Forecast and Nowcasting Sales (K Units) by Type (2020-2025)

Table 29. Global Solar Forecast and Nowcasting Sales Market Share by Type (2020-2025)

Table 30. Global Solar Forecast and Nowcasting Market Size (M USD) by Type (2020-2025)

Table 31. Global Solar Forecast and Nowcasting Market Share by Type (2020-2025)

Table 32. Global Solar Forecast and Nowcasting Price (USD/Unit) by Type (2020-2025)

Table 33. Global Solar Forecast and Nowcasting Sales (K Units) by Application

Table 34. Global Solar Forecast and Nowcasting Market Size by Application

Table 35. Global Solar Forecast and Nowcasting Sales by Application (2020-2025) & (K Units)

Table 36. Global Solar Forecast and Nowcasting Sales Market Share by Application (2020-2025)

Table 37. Global Solar Forecast and Nowcasting Market Size by Application (2020-2025) & (M USD)

Table 38. Global Solar Forecast and Nowcasting Market Share by Application (2020-2025)

Table 39. Global Solar Forecast and Nowcasting Sales Growth Rate by Application (2020-2025)

Table 40. Global Solar Forecast and Nowcasting Sales by Region (2020-2025) & (K Units)

Table 41. Global Solar Forecast and Nowcasting Sales Market Share by Region (2020-2025)

Table 42. Global Solar Forecast and Nowcasting Market Size by Region (2020-2025) & (M USD)

Table 43. Global Solar Forecast and Nowcasting Market Size by Region (2020-2025)

Table 44. North America Solar Forecast and Nowcasting Sales by Country (2020-2025) & (K Units)

Table 45. North America Solar Forecast and Nowcasting Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Solar Forecast and Nowcasting Sales by Country (2020-2025) & (K Units)

Table 47. Europe Solar Forecast and Nowcasting Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Solar Forecast and Nowcasting Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Solar Forecast and Nowcasting Market Size by Region (2020-2025) & (M USD)

Table 50. South America Solar Forecast and Nowcasting Sales by Country (2020-2025)

& (K Units)

Table 51. South America Solar Forecast and Nowcasting Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Solar Forecast and Nowcasting Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Solar Forecast and Nowcasting Market Size by Region (2020-2025) & (M USD)

Table 54. Global Solar Forecast and Nowcasting Production (K Units) by Region(2020-2025)

Table 55. Global Solar Forecast and Nowcasting Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Solar Forecast and Nowcasting Revenue Market Share by Region (2020-2025)

Table 57. Global Solar Forecast and Nowcasting Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Solar Forecast and Nowcasting Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Solar Forecast and Nowcasting Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Solar Forecast and Nowcasting Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Solar Forecast and Nowcasting Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Solargis Basic Information

Table 63. Solargis Solar Forecast and Nowcasting Product Overview

Table 64. Solargis Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Solargis Business Overview

Table 66. Solargis SWOT Analysis

Table 67. Solargis Recent Developments

Table 68. IBM Research Basic Information

Table 69. IBM Research Solar Forecast and Nowcasting Product Overview

Table 70. IBM Research Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. IBM Research Business Overview

Table 72. IBM Research SWOT Analysis

Table 73. IBM Research Recent Developments

Table 74. Reuniwatt Basic Information

Table 75. Reuniwatt Solar Forecast and Nowcasting Product Overview

Table 76. Reuniwatt Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Reuniwatt Business Overview

Table 78. Reuniwatt SWOT Analysis

Table 79. Reuniwatt Recent Developments

Table 80. DNV?Solcast? Basic Information

Table 81. DNV?Solcast? Solar Forecast and Nowcasting Product Overview

Table 82. DNV?Solcast? Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. DNV?Solcast? Business Overview

Table 84. DNV?Solcast? Recent Developments

Table 85. Open Climate Fix Basic Information

Table 86. Open Climate Fix Solar Forecast and Nowcasting Product Overview

Table 87. Open Climate Fix Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Open Climate Fix Business Overview

Table 89. Open Climate Fix Recent Developments

Table 90. NIWA Basic Information

Table 91. NIWA Solar Forecast and Nowcasting Product Overview

Table 92. NIWA Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. NIWA Business Overview

Table 94. NIWA Recent Developments

Table 95. CSP Services Basic Information

Table 96. CSP Services Solar Forecast and Nowcasting Product Overview

Table 97. CSP Services Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. CSP Services Business Overview

Table 99. CSP Services Recent Developments

Table 100. Vaisala Xweather Basic Information

Table 101. Vaisala Xweather Solar Forecast and Nowcasting Product Overview

Table 102. Vaisala Xweather Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Vaisala Xweather Business Overview

Table 104. Vaisala Xweather Recent Developments

Table 105. CalibSun Basic Information

Table 106. CalibSun Solar Forecast and Nowcasting Product Overview

Table 107. CalibSun Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 108. CalibSun Business Overview
- Table 109. CalibSun Recent Developments
- Table 110. Fraunhofer ISE Basic Information
- Table 111. Fraunhofer ISE Solar Forecast and Nowcasting Product Overview
- Table 112. Fraunhofer ISE Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Fraunhofer ISE Business Overview
- Table 114. Fraunhofer ISE Recent Developments
- Table 115. Vaisala Basic Information
- Table 116. Vaisala Solar Forecast and Nowcasting Product Overview
- Table 117. Vaisala Solar Forecast and Nowcasting Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Vaisala Business Overview
- Table 119. Vaisala Recent Developments
- Table 120. Global Solar Forecast and Nowcasting Sales Forecast by Region (2026-2035) & (K Units)
- Table 121. Global Solar Forecast and Nowcasting Market Size Forecast by Region (2026-2035) & (M USD)
- Table 122. North America Solar Forecast and Nowcasting Sales Forecast by Country (2026-2035) & (K Units)
- Table 123. North America Solar Forecast and Nowcasting Market Size Forecast by Country (2026-2035) & (M USD)
- Table 124. Europe Solar Forecast and Nowcasting Sales Forecast by Country (2026-2035) & (K Units)
- Table 125. Europe Solar Forecast and Nowcasting Market Size Forecast by Country (2026-2035) & (M USD)
- Table 126. Asia Pacific Solar Forecast and Nowcasting Sales Forecast by Region (2026-2035) & (K Units)
- Table 127. Asia Pacific Solar Forecast and Nowcasting Market Size Forecast by Region (2026-2035) & (M USD)
- Table 128. South America Solar Forecast and Nowcasting Sales Forecast by Country (2026-2035) & (K Units)
- Table 129. South America Solar Forecast and Nowcasting Market Size Forecast by Country (2026-2035) & (M USD)
- Table 130. Middle East and Africa Solar Forecast and Nowcasting Sales Forecast by Country (2026-2035) & (Units)
- Table 131. Middle East and Africa Solar Forecast and Nowcasting Market Size Forecast by Country (2026-2035) & (M USD)
- Table 132. Global Solar Forecast and Nowcasting Sales Forecast by Type (2026-2035)

& (K Units)

Table 133. Global Solar Forecast and Nowcasting Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Solar Forecast and Nowcasting Price Forecast by Type (2026-2035) & (USD/Unit)

Table 135. Global Solar Forecast and Nowcasting Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global Solar Forecast and Nowcasting Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Solar Forecast and Nowcasting
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Solar Forecast and Nowcasting Market Size (M USD), 2025-2035
- Figure 5. Global Solar Forecast and Nowcasting Market Size (M USD) (2020-2035)
- Figure 6. Global Solar Forecast and Nowcasting Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Solar Forecast and Nowcasting Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Solar Forecast and Nowcasting Product Life Cycle
- Figure 13. Solar Forecast and Nowcasting Sales Share by Manufacturers in 2025
- Figure 14. Global Solar Forecast and Nowcasting Revenue Share by Manufacturers in 2025
- Figure 15. Solar Forecast and Nowcasting Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Solar Forecast and Nowcasting Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Solar Forecast and Nowcasting Revenue in 2025
- Figure 18. Industry Chain Map of Solar Forecast and Nowcasting
- Figure 19. Global Solar Forecast and Nowcasting Market PEST Analysis
- Figure 20. Global Solar Forecast and Nowcasting Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Solar Forecast and Nowcasting Market Share by Type
- Figure 27. Sales Market Share of Solar Forecast and Nowcasting by Type (2020-2025)
- Figure 28. Sales Market Share of Solar Forecast and Nowcasting by Type in 2025
- Figure 29. Market Share of Solar Forecast and Nowcasting by Type (2020-2025)
- Figure 30. Market Share of Solar Forecast and Nowcasting by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Solar Forecast and Nowcasting Market Share by Application

Figure 33. Global Solar Forecast and Nowcasting Sales Market Share by Application (2020-2025)

Figure 34. Global Solar Forecast and Nowcasting Sales Market Share by Application in 2025

Figure 35. Global Solar Forecast and Nowcasting Market Share by Application (2020-2025)

Figure 36. Global Solar Forecast and Nowcasting Market Share by Application in 2025

Figure 37. Global Solar Forecast and Nowcasting Sales Growth Rate by Application (2020-2025)

Figure 38. Global Solar Forecast and Nowcasting Sales Market Share by Region (2020-2025)

Figure 39. Global Solar Forecast and Nowcasting Market Size by Region (2020-2025)

Figure 40. North America Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Solar Forecast and Nowcasting Sales Market Share by Country in 2024

Figure 43. North America Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Solar Forecast and Nowcasting Market Size by Country in 2024

Figure 45. U.S. Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Solar Forecast and Nowcasting Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Solar Forecast and Nowcasting Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Solar Forecast and Nowcasting Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Solar Forecast and Nowcasting Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Solar Forecast and Nowcasting Sales Market Share by Country in 2024

Figure 53. Europe Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Solar Forecast and Nowcasting Market Size by Country in 2024

Figure 55. Germany Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Solar Forecast and Nowcasting Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Solar Forecast and Nowcasting Sales Market Share by Region in 2024

Figure 67. Asia Pacific Solar Forecast and Nowcasting Market Size by Region in 2024

Figure 68. China Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Solar Forecast and Nowcasting Sales and Growth Rate (K Units)

Figure 79. South America Solar Forecast and Nowcasting Sales Market Share by Country in 2024

Figure 80. South America Solar Forecast and Nowcasting Market Size and Growth Rate (M USD)

Figure 81. South America Solar Forecast and Nowcasting Market Size by Country in 2024

Figure 82. Brazil Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Solar Forecast and Nowcasting Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Solar Forecast and Nowcasting Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Solar Forecast and Nowcasting Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Solar Forecast and Nowcasting Market Size by Region in 2024

Figure 92. Saudi Arabia Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Solar Forecast and Nowcasting Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 94. UAE Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Solar Forecast and Nowcasting Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Solar Forecast and Nowcasting Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Solar Forecast and Nowcasting Production Market Share by Region (2020-2025)

Figure 103. North America Solar Forecast and Nowcasting Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Solar Forecast and Nowcasting Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Solar Forecast and Nowcasting Production (K Units) Growth Rate (2020-2025)

Figure 106. China Solar Forecast and Nowcasting Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Solar Forecast and Nowcasting Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Solar Forecast and Nowcasting Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Solar Forecast and Nowcasting Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Solar Forecast and Nowcasting Market Share Forecast by Type (2026-2035)

Figure 111. Global Solar Forecast and Nowcasting Sales Forecast by Application (2026-2035)

Figure 112. Global Solar Forecast and Nowcasting Market Share Forecast by Application (2026-2035)

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