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Global Solar and Wind Power Prediction Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar and Wind Power Prediction Systems market size is expected to reach $ 960 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Solar and wind power prediction systems are technologies designed to forecast the energy output of solar and wind power plants. These systems utilize advanced meteorological models, historical weather data, and real-time measurements to generate accurate predictions of renewable energy production. Solar power prediction systems focus on estimating the amount of sunlight reaching solar panels, considering factors such as cloud cover and atmospheric conditions. Wind power prediction systems, on the other hand, analyze wind speed and direction to anticipate the energy output of wind turbines. By providing reliable forecasts, these prediction systems assist energy operators and grid managers in efficiently integrating renewable energy into the power grid, optimizing energy distribution, and planning for potential fluctuations in supply. These technologies play a crucial role in enhancing the reliability and stability of renewable energy sources within the broader energy grid.

The growth of the Solar and Wind Power prediction System market is primarily driven by the continued expansion of global wind and solar installations, the rising penetration of variable renewable energy in power grids, and the accelerating development of competitive electricity markets. As wind and solar account for a larger share of electricity generation, their weather-dependent, intermittent and variable output creates greater challenges for supply-demand balancing, reserve capacity planning and secure grid operation, encouraging renewable power producers, utilities and grid operators to deploy more accurate power forecasting systems. Meanwhile, the expansion of day-ahead, intraday and real-time electricity markets is making forecasting errors

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increasingly relevant to imbalance costs and trading profitability, strengthening demand for short-term and ultra-short-term forecasting capabilities. The rapid development of energy storage, virtual power plants, hybrid wind-solar-storage projects and centralized renewable asset management is also increasing demand for portfolio-level and regional forecasting. In addition, advances in high-resolution numerical weather prediction, satellite observations, real-time SCADA data, cloud computing, artificial intelligence and machine learning are improving forecasting accuracy, update frequency and performance under complex weather conditions, supporting the evolution of solar and wind power forecasting systems from auxiliary analytical tools into core digital infrastructure for renewable energy dispatch, trading and intelligent operations.

Report Scope

This report studies the global Solar and Wind Power Prediction Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar and Wind Power Prediction Systems, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar and Wind Power Prediction Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar and Wind Power Prediction Systems total market, 2021-2032, (USD Million)

Global Solar and Wind Power Prediction Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Solar and Wind Power Prediction Systems total market, key domestic companies, and share, (USD Million)

Global Solar and Wind Power Prediction Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solar and Wind Power Prediction Systems total market by Type, CAGR,

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2021-2032, (USD Million)

Global Solar and Wind Power Prediction Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Solar and Wind Power Prediction Systems 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 State Power Rixin Tech, energy & meteo systems, Beijing East E-Energy Technology, UL Solutions, Vaisala, DNV, Guodian Nanjing Automation, NR Electric, Meteologica, enfor, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Solar and Wind Power Prediction Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solar and Wind Power Prediction Systems Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global Solar and Wind Power Prediction Systems Market, Segmentation by Type:

Short-Term Forecasting

Medium and Long Term Forecasting

Global Solar and Wind Power Prediction Systems Market, Segmentation by Deployment Method:

Cloud-based

On-premises

Global Solar and Wind Power Prediction Systems Market, Segmentation by Predicted Object:

Turbine/Unit-level Forecasting

Plant/Site-level Forecasting

Others

Global Solar and Wind Power Prediction Systems Market,

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Segmentation by Application:

Energy Providers

Power Traders

Grid Operators

Companies Profiled:

State Power Rixin Tech

energy & meteo systems

Beijing East E-Energy Technology

UL Solutions

Vaisala

DNV

Guodian Nanjing Automation

NR Electric

Meteologica

enfor

Envision Energy

Goldwind

Meteomatics

Amperon

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Weathernews

ConWX

Reuniwatt

Steadysun

Beijing Qingda Keyue

Dongfang Electronics

rebase.energy

Stellerus

StarSoul New Energy Technology

Meta Carbon

Key Questions Answered

1. How big is the global Solar and Wind Power Prediction Systems market?
2. What is the demand of the global Solar and Wind Power Prediction Systems market?
3. What is the year over year growth of the global Solar and Wind Power Prediction Systems market?
4. What is the total value of the global Solar and Wind Power Prediction Systems market?
5. Who are the Major Players in the global Solar and Wind Power Prediction Systems market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Solar and Wind Power Prediction Systems Introduction
1.2 World Solar and Wind Power Prediction Systems Market Size & Forecast (2021 & 2025 & 2032)
1.3 World Solar and Wind Power Prediction Systems Total Market by Region (by Headquarter Location)
  1.3.1 World Solar and Wind Power Prediction Systems Market Size by Region (2021-2032), (by Headquarter Location)
  1.3.2 United States Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.3 China Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.4 Europe Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.5 Japan Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.6 South Korea Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.7 ASEAN Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
  1.3.8 India Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Solar and Wind Power Prediction Systems Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.2 World Solar and Wind Power Prediction Systems Consumption Value by Region
  2.2.1 World Solar and Wind Power Prediction Systems Consumption Value by Region (2021-2026)
  2.2.2 World Solar and Wind Power Prediction Systems Consumption Value Forecast by Region (2027-2032)
2.3 United States Solar and Wind Power Prediction Systems Consumption Value

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(2021-2032)
2.4 China Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.5 Europe Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.6 Japan Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.7 South Korea Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.8 ASEAN Solar and Wind Power Prediction Systems Consumption Value (2021-2032)
2.9 India Solar and Wind Power Prediction Systems Consumption Value (2021-2032)

3 WORLD SOLAR AND WIND POWER PREDICTION SYSTEMS COMPANIES COMPETITIVE ANALYSIS

3.1 World Solar and Wind Power Prediction Systems Revenue by Player (2021-2026)
3.2 Industry Rank and Concentration Rate (CR)
  3.2.1 Global Solar and Wind Power Prediction Systems Industry Rank of Major Players
  3.2.2 Global Concentration Ratios (CR4) for Solar and Wind Power Prediction Systems in 2025
  3.2.3 Global Concentration Ratios (CR8) for Solar and Wind Power Prediction Systems in 2025
3.3 Solar and Wind Power Prediction Systems Company Evaluation Quadrant
3.4 Solar and Wind Power Prediction Systems Market: Overall Company Footprint Analysis
  3.4.1 Solar and Wind Power Prediction Systems Market: Region Footprint
  3.4.2 Solar and Wind Power Prediction Systems Market: Company Product Type Footprint
  3.4.3 Solar and Wind Power Prediction Systems Market: Company Product Application Footprint
3.5 Competitive Environment
  3.5.1 Historical Structure of the Industry
  3.5.2 Barriers of Market Entry
  3.5.3 Factors of Competition
3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Solar and Wind Power Prediction Systems Revenue Comparison (by Headquarter Location)
  4.1.1 United States VS China: Solar and Wind Power Prediction Systems Revenue

+357 96 030922
info@marketpublishers.com

Comparison (2021 & 2025 & 2032) (by Headquarter Location)
4.1.2 United States VS China: Solar and Wind Power Prediction Systems Revenue Market Share Comparison (2021 & 2025 & 2032)
4.2 United States Based Companies VS China Based Companies: Solar and Wind Power Prediction Systems Consumption Value Comparison
4.2.1 United States VS China: Solar and Wind Power Prediction Systems Consumption Value Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Solar and Wind Power Prediction Systems Consumption Value Market Share Comparison (2021 & 2025 & 2032)
4.3 United States Based Solar and Wind Power Prediction Systems Companies and Market Share, 2021-2026
4.3.1 United States Based Solar and Wind Power Prediction Systems Companies, Headquarters (States, Country)
4.3.2 United States Based Companies Solar and Wind Power Prediction Systems Revenue, (2021-2026)
4.4 China Based Companies Solar and Wind Power Prediction Systems Revenue and Market Share, 2021-2026
4.4.1 China Based Solar and Wind Power Prediction Systems Companies, Company Headquarters (Province, Country)
4.4.2 China Based Companies Solar and Wind Power Prediction Systems Revenue, (2021-2026)
4.5 Rest of World Based Solar and Wind Power Prediction Systems Companies and Market Share, 2021-2026
4.5.1 Rest of World Based Solar and Wind Power Prediction Systems Companies, Headquarters (Province, Country)
4.5.2 Rest of World Based Companies Solar and Wind Power Prediction Systems Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Solar and Wind Power Prediction Systems Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Short-Term Forecasting
5.2.2 Medium and Long Term Forecasting
5.3 Market Segment by Type
5.3.1 World Solar and Wind Power Prediction Systems Market Size by Type (2021-2026)
5.3.2 World Solar and Wind Power Prediction Systems Market Size by Type

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(2027-2032)
5.3.3 World Solar and Wind Power Prediction Systems Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY DEPLOYMENT METHOD

6.1 World Solar and Wind Power Prediction Systems Market Size Overview by Deployment Method: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Deployment Method
6.2.1 Cloud-based
6.2.2 On-premises
6.3 Market Segment by Deployment Method
6.3.1 World Solar and Wind Power Prediction Systems Market Size by Deployment Method (2021-2026)
6.3.2 World Solar and Wind Power Prediction Systems Market Size by Deployment Method (2027-2032)
6.3.3 World Solar and Wind Power Prediction Systems Market Size Market Share by Deployment Method (2027-2032)

7 MARKET ANALYSIS BY PREDICTED OBJECT

7.1 World Solar and Wind Power Prediction Systems Market Size Overview by Predicted Object: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Predicted Object
7.2.1 Turbine/Unit-level Forecasting
7.2.2 Plant/Site-level Forecasting
7.2.3 Others
7.3 Market Segment by Predicted Object
7.3.1 World Solar and Wind Power Prediction Systems Market Size by Predicted Object (2021-2026)
7.3.2 World Solar and Wind Power Prediction Systems Market Size by Predicted Object (2027-2032)
7.3.3 World Solar and Wind Power Prediction Systems Market Size Market Share by Predicted Object (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Solar and Wind Power Prediction Systems Market Size Overview by Application: 2021 VS 2025 VS 2032

+357 96 030922
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8.2 Segment Introduction by Application
8.2.1 Energy Providers
8.2.2 Power Traders
8.2.3 Grid Operators
8.3 Market Segment by Application
8.3.1 World Solar and Wind Power Prediction Systems Market Size by Application (2021-2026)
8.3.2 World Solar and Wind Power Prediction Systems Market Size by Application (2027-2032)
8.3.3 World Solar and Wind Power Prediction Systems Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 State Power Rixin Tech
9.1.1 State Power Rixin Tech Details
9.1.2 State Power Rixin Tech Major Business
9.1.3 State Power Rixin Tech Solar and Wind Power Prediction Systems Product and Services
9.1.4 State Power Rixin Tech Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.1.5 State Power Rixin Tech Recent Developments/Updates
9.1.6 State Power Rixin Tech Competitive Strengths & Weaknesses
9.2 energy & meteo systems
9.2.1 energy & meteo systems Details
9.2.2 energy & meteo systems Major Business
9.2.3 energy & meteo systems Solar and Wind Power Prediction Systems Product and Services
9.2.4 energy & meteo systems Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.2.5 energy & meteo systems Recent Developments/Updates
9.2.6 energy & meteo systems Competitive Strengths & Weaknesses
9.3 Beijing East E-Energy Technology
9.3.1 Beijing East E-Energy Technology Details
9.3.2 Beijing East E-Energy Technology Major Business
9.3.3 Beijing East E-Energy Technology Solar and Wind Power Prediction Systems Product and Services
9.3.4 Beijing East E-Energy Technology Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.3.5 Beijing East E-Energy Technology Recent Developments/Updates
9.3.6 Beijing East E-Energy Technology Competitive Strengths & Weaknesses
9.4 UL Solutions
9.4.1 UL Solutions Details
9.4.2 UL Solutions Major Business
9.4.3 UL Solutions Solar and Wind Power Prediction Systems Product and Services
9.4.4 UL Solutions Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.4.5 UL Solutions Recent Developments/Updates
9.4.6 UL Solutions Competitive Strengths & Weaknesses
9.5 Vaisala
9.5.1 Vaisala Details
9.5.2 Vaisala Major Business
9.5.3 Vaisala Solar and Wind Power Prediction Systems Product and Services
9.5.4 Vaisala Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.5.5 Vaisala Recent Developments/Updates
9.5.6 Vaisala Competitive Strengths & Weaknesses
9.6 DNV
9.6.1 DNV Details
9.6.2 DNV Major Business
9.6.3 DNV Solar and Wind Power Prediction Systems Product and Services
9.6.4 DNV Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.6.5 DNV Recent Developments/Updates
9.6.6 DNV Competitive Strengths & Weaknesses
9.7 Guodian Nanjing Automation
9.7.1 Guodian Nanjing Automation Details
9.7.2 Guodian Nanjing Automation Major Business
9.7.3 Guodian Nanjing Automation Solar and Wind Power Prediction Systems Product and Services
9.7.4 Guodian Nanjing Automation Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.7.5 Guodian Nanjing Automation Recent Developments/Updates
9.7.6 Guodian Nanjing Automation Competitive Strengths & Weaknesses
9.8 NR Electric
9.8.1 NR Electric Details
9.8.2 NR Electric Major Business
9.8.3 NR Electric Solar and Wind Power Prediction Systems Product and Services

+357 96 030922
info@marketpublishers.com

9.8.4 NR Electric Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.8.5 NR Electric Recent Developments/Updates
9.8.6 NR Electric Competitive Strengths & Weaknesses
9.9 Meteologica
9.9.1 Meteologica Details
9.9.2 Meteologica Major Business
9.9.3 Meteologica Solar and Wind Power Prediction Systems Product and Services
9.9.4 Meteologica Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.9.5 Meteologica Recent Developments/Updates
9.9.6 Meteologica Competitive Strengths & Weaknesses
9.10 enfor
9.10.1 enfor Details
9.10.2 enfor Major Business
9.10.3 enfor Solar and Wind Power Prediction Systems Product and Services
9.10.4 enfor Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.10.5 enfor Recent Developments/Updates
9.10.6 enfor Competitive Strengths & Weaknesses
9.11 Envision Energy
9.11.1 Envision Energy Details
9.11.2 Envision Energy Major Business
9.11.3 Envision Energy Solar and Wind Power Prediction Systems Product and Services
9.11.4 Envision Energy Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.11.5 Envision Energy Recent Developments/Updates
9.11.6 Envision Energy Competitive Strengths & Weaknesses
9.12 Goldwind
9.12.1 Goldwind Details
9.12.2 Goldwind Major Business
9.12.3 Goldwind Solar and Wind Power Prediction Systems Product and Services
9.12.4 Goldwind Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.12.5 Goldwind Recent Developments/Updates
9.12.6 Goldwind Competitive Strengths & Weaknesses
9.13 Meteomatics
9.13.1 Meteomatics Details

+357 96 030922
info@marketpublishers.com

9.13.2 Meteomatics Major Business
9.13.3 Meteomatics Solar and Wind Power Prediction Systems Product and Services
9.13.4 Meteomatics Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.13.5 Meteomatics Recent Developments/Updates
9.13.6 Meteomatics Competitive Strengths & Weaknesses
9.14 Amperon
9.14.1 Amperon Details
9.14.2 Amperon Major Business
9.14.3 Amperon Solar and Wind Power Prediction Systems Product and Services
9.14.4 Amperon Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.14.5 Amperon Recent Developments/Updates
9.14.6 Amperon Competitive Strengths & Weaknesses
9.15 Weathernews
9.15.1 Weathernews Details
9.15.2 Weathernews Major Business
9.15.3 Weathernews Solar and Wind Power Prediction Systems Product and Services
9.15.4 Weathernews Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.15.5 Weathernews Recent Developments/Updates
9.15.6 Weathernews Competitive Strengths & Weaknesses
9.16 ConWX
9.16.1 ConWX Details
9.16.2 ConWX Major Business
9.16.3 ConWX Solar and Wind Power Prediction Systems Product and Services
9.16.4 ConWX Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.16.5 ConWX Recent Developments/Updates
9.16.6 ConWX Competitive Strengths & Weaknesses
9.17 Reuniwatt
9.17.1 Reuniwatt Details
9.17.2 Reuniwatt Major Business
9.17.3 Reuniwatt Solar and Wind Power Prediction Systems Product and Services
9.17.4 Reuniwatt Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.17.5 Reuniwatt Recent Developments/Updates
9.17.6 Reuniwatt Competitive Strengths & Weaknesses
9.18 Steadysun

+357 96 030922
info@marketpublishers.com

9.18.1 Steadysun Details
9.18.2 Steadysun Major Business
9.18.3 Steadysun Solar and Wind Power Prediction Systems Product and Services
9.18.4 Steadysun Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.18.5 Steadysun Recent Developments/Updates
9.18.6 Steadysun Competitive Strengths & Weaknesses
9.19 Beijing Qingda Keyue
9.19.1 Beijing Qingda Keyue Details
9.19.2 Beijing Qingda Keyue Major Business
9.19.3 Beijing Qingda Keyue Solar and Wind Power Prediction Systems Product and Services
9.19.4 Beijing Qingda Keyue Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.19.5 Beijing Qingda Keyue Recent Developments/Updates
9.19.6 Beijing Qingda Keyue Competitive Strengths & Weaknesses
9.20 Dongfang Electronics
9.20.1 Dongfang Electronics Details
9.20.2 Dongfang Electronics Major Business
9.20.3 Dongfang Electronics Solar and Wind Power Prediction Systems Product and Services
9.20.4 Dongfang Electronics Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.20.5 Dongfang Electronics Recent Developments/Updates
9.20.6 Dongfang Electronics Competitive Strengths & Weaknesses
9.21 rebase.energy
9.21.1 rebase.energy Details
9.21.2 rebase.energy Major Business
9.21.3 rebase.energy Solar and Wind Power Prediction Systems Product and Services
9.21.4 rebase.energy Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.21.5 rebase.energy Recent Developments/Updates
9.21.6 rebase.energy Competitive Strengths & Weaknesses
9.22 Stellerus
9.22.1 Stellerus Details
9.22.2 Stellerus Major Business
9.22.3 Stellerus Solar and Wind Power Prediction Systems Product and Services
9.22.4 Stellerus Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.22.5 Stellerus Recent Developments/Updates
9.22.6 Stellerus Competitive Strengths & Weaknesses
9.23 StarSoul New Energy Technology
9.23.1 StarSoul New Energy Technology Details
9.23.2 StarSoul New Energy Technology Major Business
9.23.3 StarSoul New Energy Technology Solar and Wind Power Prediction Systems Product and Services
9.23.4 StarSoul New Energy Technology Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.23.5 StarSoul New Energy Technology Recent Developments/Updates
9.23.6 StarSoul New Energy Technology Competitive Strengths & Weaknesses
9.24 Meta Carbon
9.24.1 Meta Carbon Details
9.24.2 Meta Carbon Major Business
9.24.3 Meta Carbon Solar and Wind Power Prediction Systems Product and Services
9.24.4 Meta Carbon Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026)
9.24.5 Meta Carbon Recent Developments/Updates
9.24.6 Meta Carbon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Solar and Wind Power Prediction Systems Industry Chain
10.2 Solar and Wind Power Prediction Systems Upstream Analysis
10.3 Solar and Wind Power Prediction Systems Midstream Analysis
10.4 Solar and Wind Power Prediction Systems Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Solar and Wind Power Prediction Systems Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Table 2. World Solar and Wind Power Prediction Systems Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
Table 3. World Solar and Wind Power Prediction Systems Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
Table 4. World Solar and Wind Power Prediction Systems Revenue Market Share by Region (2021-2026), (by Headquarter Location)
Table 5. World Solar and Wind Power Prediction Systems Revenue Market Share by Region (2027-2032), (by Headquarter Location)
Table 6. Major Market Trends
Table 7. World Solar and Wind Power Prediction Systems Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
Table 8. World Solar and Wind Power Prediction Systems Consumption Value by Region (2021-2026) & (USD Million)
Table 9. World Solar and Wind Power Prediction Systems Consumption Value Forecast by Region (2027-2032) & (USD Million)
Table 10. World Solar and Wind Power Prediction Systems Revenue by Player (2021-2026) & (USD Million)
Table 11. Revenue Market Share of Key Solar and Wind Power Prediction Systems Players in 2025
Table 12. World Solar and Wind Power Prediction Systems Industry Rank of Major Player, Based on Revenue in 2025
Table 13. Global Solar and Wind Power Prediction Systems Company Evaluation Quadrant
Table 14. Head Office of Key Solar and Wind Power Prediction Systems Players
Table 15. Solar and Wind Power Prediction Systems Market: Company Product Type Footprint
Table 16. Solar and Wind Power Prediction Systems Market: Company Product Application Footprint
Table 17. Solar and Wind Power Prediction Systems Mergers & Acquisitions Activity
Table 18. United States VS China Solar and Wind Power Prediction Systems Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 19. United States VS China Solar and Wind Power Prediction Systems Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

+357 96 030922
info@marketpublishers.com

Table 20. United States Based Solar and Wind Power Prediction Systems Companies, Headquarters (States, Country)
Table 21. United States Based Companies Solar and Wind Power Prediction Systems Revenue, (2021-2026) & (USD Million)
Table 22. United States Based Companies Solar and Wind Power Prediction Systems Revenue Market Share (2021-2026)
Table 23. China Based Solar and Wind Power Prediction Systems Companies, Headquarters (Province, Country)
Table 24. China Based Companies Solar and Wind Power Prediction Systems Revenue, (2021-2026) & (USD Million)
Table 25. China Based Companies Solar and Wind Power Prediction Systems Revenue Market Share (2021-2026)
Table 26. Rest of World Based Solar and Wind Power Prediction Systems Companies, Headquarters (Province, Country)
Table 27. Rest of World Based Companies Solar and Wind Power Prediction Systems Revenue (2021-2026) & (USD Million)
Table 28. Rest of World Based Companies Solar and Wind Power Prediction Systems Revenue Market Share (2021-2026)
Table 29. World Solar and Wind Power Prediction Systems Market Size by Type, (USD Million), 2021 & 2025 & 2032
Table 30. World Solar and Wind Power Prediction Systems Market Size Value by Type (2021-2026) & (USD Million)
Table 31. World Solar and Wind Power Prediction Systems Market Size by Type (2027-2032) & (USD Million)
Table 32. World Solar and Wind Power Prediction Systems Market Size by Deployment Method, (USD Million), 2021 & 2025 & 2032
Table 33. World Solar and Wind Power Prediction Systems Market Size Value by Deployment Method (2021-2026) & (USD Million)
Table 34. World Solar and Wind Power Prediction Systems Market Size by Deployment Method (2027-2032) & (USD Million)
Table 35. World Solar and Wind Power Prediction Systems Market Size by Predicted Object, (USD Million), 2021 & 2025 & 2032
Table 36. World Solar and Wind Power Prediction Systems Market Size Value by Predicted Object (2021-2026) & (USD Million)
Table 37. World Solar and Wind Power Prediction Systems Market Size by Predicted Object (2027-2032) & (USD Million)
Table 38. World Solar and Wind Power Prediction Systems Market Size by Application, (USD Million), 2021 & 2025 & 2032
Table 39. World Solar and Wind Power Prediction Systems Market Size by Application

+357 96 030922
info@marketpublishers.com

(2021-2026) & (USD Million)
Table 40. World Solar and Wind Power Prediction Systems Market Size by Application (2027-2032) & (USD Million)
Table 41. State Power Rixin Tech Basic Information, Manufacturing Base and Competitors
Table 42. State Power Rixin Tech Major Business
Table 43. State Power Rixin Tech Solar and Wind Power Prediction Systems Product and Services
Table 44. State Power Rixin Tech Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. State Power Rixin Tech Recent Developments/Updates
Table 46. State Power Rixin Tech Competitive Strengths & Weaknesses
Table 47. energy & meteo systems Basic Information, Manufacturing Base and Competitors
Table 48. energy & meteo systems Major Business
Table 49. energy & meteo systems Solar and Wind Power Prediction Systems Product and Services
Table 50. energy & meteo systems Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. energy & meteo systems Recent Developments/Updates
Table 52. energy & meteo systems Competitive Strengths & Weaknesses
Table 53. Beijing East E-Energy Technology Basic Information, Manufacturing Base and Competitors
Table 54. Beijing East E-Energy Technology Major Business
Table 55. Beijing East E-Energy Technology Solar and Wind Power Prediction Systems Product and Services
Table 56. Beijing East E-Energy Technology Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. Beijing East E-Energy Technology Recent Developments/Updates
Table 58. Beijing East E-Energy Technology Competitive Strengths & Weaknesses
Table 59. UL Solutions Basic Information, Manufacturing Base and Competitors
Table 60. UL Solutions Major Business
Table 61. UL Solutions Solar and Wind Power Prediction Systems Product and Services
Table 62. UL Solutions Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. UL Solutions Recent Developments/Updates
Table 64. UL Solutions Competitive Strengths & Weaknesses
Table 65. Vaisala Basic Information, Manufacturing Base and Competitors
Table 66. Vaisala Major Business

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Table 67. Vaisala Solar and Wind Power Prediction Systems Product and Services
Table 68. Vaisala Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Vaisala Recent Developments/Updates
Table 70. Vaisala Competitive Strengths & Weaknesses
Table 71. DNV Basic Information, Manufacturing Base and Competitors
Table 72. DNV Major Business
Table 73. DNV Solar and Wind Power Prediction Systems Product and Services
Table 74. DNV Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. DNV Recent Developments/Updates
Table 76. DNV Competitive Strengths & Weaknesses
Table 77. Guodian Nanjing Automation Basic Information, Manufacturing Base and Competitors
Table 78. Guodian Nanjing Automation Major Business
Table 79. Guodian Nanjing Automation Solar and Wind Power Prediction Systems Product and Services
Table 80. Guodian Nanjing Automation Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Guodian Nanjing Automation Recent Developments/Updates
Table 82. Guodian Nanjing Automation Competitive Strengths & Weaknesses
Table 83. NR Electric Basic Information, Manufacturing Base and Competitors
Table 84. NR Electric Major Business
Table 85. NR Electric Solar and Wind Power Prediction Systems Product and Services
Table 86. NR Electric Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. NR Electric Recent Developments/Updates
Table 88. NR Electric Competitive Strengths & Weaknesses
Table 89. Meteologica Basic Information, Manufacturing Base and Competitors
Table 90. Meteologica Major Business
Table 91. Meteologica Solar and Wind Power Prediction Systems Product and Services
Table 92. Meteologica Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Meteologica Recent Developments/Updates
Table 94. Meteologica Competitive Strengths & Weaknesses
Table 95. enfor Basic Information, Manufacturing Base and Competitors
Table 96. enfor Major Business
Table 97. enfor Solar and Wind Power Prediction Systems Product and Services
Table 98. enfor Solar and Wind Power Prediction Systems Revenue, Gross Margin and

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Market Share (2021-2026) & (USD Million)
Table 99. enfor Recent Developments/Updates
Table 100. enfor Competitive Strengths & Weaknesses
Table 101. Envision Energy Basic Information, Manufacturing Base and Competitors
Table 102. Envision Energy Major Business
Table 103. Envision Energy Solar and Wind Power Prediction Systems Product and Services
Table 104. Envision Energy Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Envision Energy Recent Developments/Updates
Table 106. Envision Energy Competitive Strengths & Weaknesses
Table 107. Goldwind Basic Information, Manufacturing Base and Competitors
Table 108. Goldwind Major Business
Table 109. Goldwind Solar and Wind Power Prediction Systems Product and Services
Table 110. Goldwind Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Goldwind Recent Developments/Updates
Table 112. Goldwind Competitive Strengths & Weaknesses
Table 113. Meteomatics Basic Information, Manufacturing Base and Competitors
Table 114. Meteomatics Major Business
Table 115. Meteomatics Solar and Wind Power Prediction Systems Product and Services
Table 116. Meteomatics Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Meteomatics Recent Developments/Updates
Table 118. Meteomatics Competitive Strengths & Weaknesses
Table 119. Amperon Basic Information, Manufacturing Base and Competitors
Table 120. Amperon Major Business
Table 121. Amperon Solar and Wind Power Prediction Systems Product and Services
Table 122. Amperon Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Amperon Recent Developments/Updates
Table 124. Amperon Competitive Strengths & Weaknesses
Table 125. Weathernews Basic Information, Manufacturing Base and Competitors
Table 126. Weathernews Major Business
Table 127. Weathernews Solar and Wind Power Prediction Systems Product and Services
Table 128. Weathernews Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

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Table 129. Weathernews Recent Developments/Updates
Table 130. Weathernews Competitive Strengths & Weaknesses
Table 131. ConWX Basic Information, Manufacturing Base and Competitors
Table 132. ConWX Major Business
Table 133. ConWX Solar and Wind Power Prediction Systems Product and Services
Table 134. ConWX Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 135. ConWX Recent Developments/Updates
Table 136. ConWX Competitive Strengths & Weaknesses
Table 137. Reuniwatt Basic Information, Manufacturing Base and Competitors
Table 138. Reuniwatt Major Business
Table 139. Reuniwatt Solar and Wind Power Prediction Systems Product and Services
Table 140. Reuniwatt Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 141. Reuniwatt Recent Developments/Updates
Table 142. Reuniwatt Competitive Strengths & Weaknesses
Table 143. Steadysun Basic Information, Manufacturing Base and Competitors
Table 144. Steadysun Major Business
Table 145. Steadysun Solar and Wind Power Prediction Systems Product and Services
Table 146. Steadysun Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 147. Steadysun Recent Developments/Updates
Table 148. Steadysun Competitive Strengths & Weaknesses
Table 149. Beijing Qingda Keyue Basic Information, Manufacturing Base and Competitors
Table 150. Beijing Qingda Keyue Major Business
Table 151. Beijing Qingda Keyue Solar and Wind Power Prediction Systems Product and Services
Table 152. Beijing Qingda Keyue Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 153. Beijing Qingda Keyue Recent Developments/Updates
Table 154. Beijing Qingda Keyue Competitive Strengths & Weaknesses
Table 155. Dongfang Electronics Basic Information, Manufacturing Base and Competitors
Table 156. Dongfang Electronics Major Business
Table 157. Dongfang Electronics Solar and Wind Power Prediction Systems Product and Services
Table 158. Dongfang Electronics Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

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Table 159. Dongfang Electronics Recent Developments/Updates
Table 160. Dongfang Electronics Competitive Strengths & Weaknesses
Table 161. rebase.energy Basic Information, Manufacturing Base and Competitors
Table 162. rebase.energy Major Business
Table 163. rebase.energy Solar and Wind Power Prediction Systems Product and Services
Table 164. rebase.energy Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 165. rebase.energy Recent Developments/Updates
Table 166. rebase.energy Competitive Strengths & Weaknesses
Table 167. Stellerus Basic Information, Manufacturing Base and Competitors
Table 168. Stellerus Major Business
Table 169. Stellerus Solar and Wind Power Prediction Systems Product and Services
Table 170. Stellerus Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 171. Stellerus Recent Developments/Updates
Table 172. Stellerus Competitive Strengths & Weaknesses
Table 173. StarSoul New Energy Technology Basic Information, Manufacturing Base and Competitors
Table 174. StarSoul New Energy Technology Major Business
Table 175. StarSoul New Energy Technology Solar and Wind Power Prediction Systems Product and Services
Table 176. StarSoul New Energy Technology Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 177. StarSoul New Energy Technology Recent Developments/Updates
Table 178. StarSoul New Energy Technology Competitive Strengths & Weaknesses
Table 179. Meta Carbon Basic Information, Manufacturing Base and Competitors
Table 180. Meta Carbon Major Business
Table 181. Meta Carbon Solar and Wind Power Prediction Systems Product and Services
Table 182. Meta Carbon Solar and Wind Power Prediction Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 183. Meta Carbon Recent Developments/Updates
Table 184. Meta Carbon Competitive Strengths & Weaknesses
Table 185. Global Key Players of Solar and Wind Power Prediction Systems Upstream (Raw Materials)
Table 186. Global Solar and Wind Power Prediction Systems Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Solar and Wind Power Prediction Systems Picture
Figure 2. World Solar and Wind Power Prediction Systems Total Revenue: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Solar and Wind Power Prediction Systems Total Revenue (2021-2032) & (USD Million)
Figure 4. World Solar and Wind Power Prediction Systems Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Figure 5. World Solar and Wind Power Prediction Systems Revenue Market Share by Region (2021-2032), (by Headquarter Location)
Figure 6. United States Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 7. China Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 8. Europe Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 9. Japan Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 10. South Korea Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 11. ASEAN Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 12. India Based Company Solar and Wind Power Prediction Systems Revenue (2021-2032) & (USD Million)
Figure 13. Solar and Wind Power Prediction Systems Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 16. World Solar and Wind Power Prediction Systems Consumption Value Market Share by Region (2021-2032)
Figure 17. United States Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 18. China Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 19. Europe Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)

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Figure 20. Japan Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 21. South Korea Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 22. ASEAN Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 23. India Solar and Wind Power Prediction Systems Consumption Value (2021-2032) & (USD Million)
Figure 24. Producer Shipments of Solar and Wind Power Prediction Systems by Player Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for Solar and Wind Power Prediction Systems Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for Solar and Wind Power Prediction Systems Markets in 2025
Figure 27. United States VS China: Solar and Wind Power Prediction Systems Revenue Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Solar and Wind Power Prediction Systems Consumption Value Market Share Comparison (2021 & 2025 & 2032)
Figure 29. World Solar and Wind Power Prediction Systems Market Size by Type, (USD Million), 2021 & 2025 & 2032
Figure 30. World Solar and Wind Power Prediction Systems Market Size Market Share by Type in 2025
Figure 31. Short-Term Forecasting
Figure 32. Medium and Long Term Forecasting
Figure 33. World Solar and Wind Power Prediction Systems Market Size Market Share by Type (2021-2032)
Figure 34. World Solar and Wind Power Prediction Systems Market Size by Deployment Method, (USD Million), 2021 & 2025 & 2032
Figure 35. World Solar and Wind Power Prediction Systems Market Size Market Share by Deployment Method in 2025
Figure 36. Cloud-based
Figure 37. On-premises
Figure 38. World Solar and Wind Power Prediction Systems Market Size Market Share by Deployment Method (2021-2032)
Figure 39. World Solar and Wind Power Prediction Systems Market Size by Predicted Object, (USD Million), 2021 & 2025 & 2032
Figure 40. World Solar and Wind Power Prediction Systems Market Size Market Share by Predicted Object in 2025
Figure 41. Turbine/Unit-level Forecasting

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Figure 42. Plant/Site-level Forecasting
Figure 43. Others
Figure 44. World Solar and Wind Power Prediction Systems Market Size Market Share by Predicted Object (2021-2032)
Figure 45. World Solar and Wind Power Prediction Systems Market Size by Application, (USD Million), 2021 & 2025 & 2032
Figure 46. World Solar and Wind Power Prediction Systems Market Size Market Share by Application in 2025
Figure 47. Energy Providers
Figure 48. Power Traders
Figure 49. Grid Operators
Figure 50. World Solar and Wind Power Prediction Systems Market Size Market Share by Application (2021-2032)
Figure 51. Solar and Wind Power Prediction Systems Industrial Chain
Figure 52. Methodology
Figure 53. Research Process and Data Source

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