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Global Wind and Solar Power Forecast System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wind and Solar Power Forecast System 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).

The wind and solar power forecasting system is a specialized software solution designed for wind farms, photovoltaic (PV) power plants, new energy centralized control centers, and grid dispatching agencies. It automates the forecasting, rolling adjustment, and result management of future wind and solar power generation. The system typically integrates numerical weather prediction, satellite remote sensing, ground meteorological observation, and real-time SCADA operation data of wind turbines and photovoltaic power plants, and combines physical models, statistical models, machine learning and artificial intelligence algorithms to generate ultra-short-term, short-term, day-ahead, intraday and medium-term power prediction results.

The market for wind and solar power forecasting systems is primarily driven by the continued expansion of global installed wind and solar capacity, the rising share of renewable energy integrated into the grid, and the increasing marketization of the power sector. Because wind and solar power generation are characterized by significant intermittency, volatility, and weather dependence, the accuracy of the power grid's future power generation is directly related to supply and demand balance, reserve capacity configuration, and system security as the proportion of new energy sources increases. Furthermore, with new energy companies participating in day-ahead, intraday, and real-time electricity markets, forecasting errors will directly affect deviation assessments and trading revenues. Therefore, high-precision power forecasting is gradually becoming a basic configuration for new energy power plants and dispatching agencies. Meanwhile, the rapid development of energy storage, virtual power plants,

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integrated wind-solar-storage systems, and centralized operation models for new energy sources has placed higher demands on multi-site, combined-level, and high-frequency rolling forecasts. The continuous maturation of high-resolution numerical weather prediction, satellite cloud images, real-time SCADA data, cloud computing, and AI and deep learning technologies has continuously improved forecast accuracy, automation levels, and adaptability to complex weather conditions, jointly driving the evolution of wind and solar power forecasting systems from traditional site auxiliary software to core digital systems for new energy dispatching, trading, and intelligent operation.

Report Scope

This report studies the global Wind and Solar Power Forecast System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind and Solar Power Forecast System, 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 Wind and Solar Power Forecast System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wind and Solar Power Forecast System total market, 2021-2032, (USD Million)

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

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

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

Global Wind and Solar Power Forecast System total market by Type, CAGR, 2021-2032, (USD Million)

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

This report profiles major players in the global Wind and Solar Power Forecast System 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 Wind and Solar Power Forecast System 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 Wind and Solar Power Forecast System Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global Wind and Solar Power Forecast System Market, Segmentation by Type:

Short-Term Forecasting

Medium and Long Term Forecasting

Global Wind and Solar Power Forecast System Market, Segmentation by Deployment Method:

Cloud-based

On-premises

Global Wind and Solar Power Forecast System Market, Segmentation by Predicted Object:

Turbine/Unit-level Forecasting

Plant/Site-level Forecasting

Others

Global Wind and Solar Power Forecast System Market, Segmentation by Application:

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Wind Power

Solar Power

Others

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

Weathernews

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

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