

Onshore Wind Energy Market Forecasts To 2034 – Global Analysis By Turbine Configuration (Horizontal-Axis Wind Turbines and Vertical-Axis Wind Turbines), Component, Turbine Capacity, Installation Type, Wind Resource, Grid Connectivity, Ownership Model, Power Procurement Model, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Onshore Wind Energy Market is accounted for \$78.7 billion in 2026 and is expected to reach \$130.3 billion by 2034 growing at a CAGR of 6.5% during the forecast period. The onshore wind energy market is witnessing strong development as governments and businesses pursue cleaner electricity, lower emissions, and greater energy independence. Onshore wind projects offer an economical renewable power solution, supported by advances in turbine design, operational efficiency, digital supervision, and predictive maintenance technologies. Market growth is also being stimulated by investments in transmission networks, wind-farm repowering, and hybrid projects combining wind with solar, energy storage, and green hydrogen production. Supportive regulations, renewable-energy commitments, and corporate demand for clean electricity continue to encourage deployment. Additionally, higher-capacity turbines, enhanced performance at lower wind speeds, and sophisticated control technologies are expanding suitable project locations and improving investment returns.

Market Dynamics:

Driver:

Increasing Demand for Renewable Electricity

Rising requirements for clean electricity are significantly supporting the growth of the onshore wind energy market. Governments, power producers, and commercial organizations are adopting renewable generation to lower carbon emissions and reduce reliance on conventional fuels. Onshore wind offers a scalable solution for producing substantial volumes of electricity and is therefore increasingly incorporated into national energy strategies. Expanding industrial activity, population growth, urban development, electrification, and rapidly increasing electricity requirements from digital infrastructure are creating additional demand for generating capacity. As energy systems transition away from coal, oil, and natural gas, developers and utilities are directing greater investment toward onshore wind farms, encouraging capacity expansion and sustained market development.

Restraint:

High Initial Capital Requirements

The considerable upfront investment required for onshore wind projects can restrict market expansion. Developers must allocate significant funds toward turbines, civil works, foundations, transportation, electrical infrastructure, construction, land preparation, engineering, and grid interconnection. Financing expenses can accumulate during lengthy development and construction periods before projects begin generating electricity and producing revenue. Higher borrowing costs, restrictive financing conditions, and fluctuations in equipment prices can further weaken project feasibility. Smaller developers may find it particularly challenging to obtain adequate funding for large-scale installations, especially in developing economies. Despite comparatively modest operating expenses after commissioning, substantial initial capital requirements can cause investment delays, discourage smaller participants, and slow the addition of new onshore wind capacity.

Opportunity:

Integration of Onshore Wind with Energy Storage and Hybrid Systems

Combining onshore wind with batteries, solar power, and flexible energy technologies is opening new avenues for market growth. Because wind output changes with weather conditions, energy-storage systems can help preserve electricity and deliver it when demand is higher. Wind-solar combinations can also provide a more balanced renewable generation profile because their production patterns may complement one another. Shared grid connections and supporting infrastructure can improve the

efficiency of hybrid developments. Battery storage can additionally assist with system balancing, minimize renewable-energy curtailment, and enhance the economic value of electricity produced by wind farms. Growing requirements for flexible and reliable renewable power are therefore encouraging investment in integrated wind, solar, and storage facilities.

Threat:

Extreme Weather and Climate-Related Risks

Climate-related hazards and increasingly severe weather conditions can threaten onshore wind installations and their financial performance. Wind farms remain exposed to storms, lightning, flooding, extreme heat or cold, and unusually strong winds throughout their operational lifetimes. Such events can damage turbines, electrical systems, access roads, substations, and supporting infrastructure. Changing climate patterns may intensify certain environmental risks in some locations, potentially increasing repair requirements, insurance premiums, downtime, and equipment replacement expenses. Developers may consequently need to incorporate stronger turbine structures, comprehensive environmental assessments, and resilient infrastructure into new projects. These measures can increase capital and operating costs while introducing greater uncertainty about asset reliability, operational continuity, and long-term project returns.

Covid-19 Impact:

The COVID-19 crisis created temporary challenges for the onshore wind energy industry through construction interruptions, workforce restrictions, supply-chain disruptions, transportation problems, and delayed turbine deliveries. Factory closures affected the production of wind turbines and components, while travel restrictions made project development, inspections, permitting, and field activities more difficult. Economic uncertainty also affected financing decisions and caused some developers to postpone investments. Nevertheless, renewable energy continued to receive strategic attention because of its role in decarbonization and energy security. Once pandemic restrictions were gradually lifted, construction activities restarted, supply networks improved, and postponed projects progressed. Consequently, the onshore wind market recovered while retaining its longer-term growth prospects.

The Rotor Blades segment is expected to be the largest during the forecast period

The Rotor Blades segment is expected to account for the largest market share during the forecast period, driven by the critical function of blades in efficiently capturing wind and transferring its energy into mechanical rotation. Technological developments in aerodynamic design, composite materials, blade length, and structural optimization are enhancing turbine efficiency and electricity generation. The increasing installation of larger onshore wind turbines is creating additional demand for advanced blade systems. Manufacturers are developing stronger, lighter, and more aerodynamically optimized blades capable of operating effectively across diverse wind conditions. Furthermore, expanding wind-farm repowering and modernization projects are generating replacement demand for upgraded rotor blades with improved performance and durability.

The Green Hydrogen Production segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Green Hydrogen Production segment is predicted to witness the highest growth rate, driven by rising efforts to reduce emissions from industries where direct electrification remains challenging. Onshore wind can supply renewable electricity to electrolyzers, supporting hydrogen generation with lower carbon intensity. Increasing investments in electrolyzers, hydrogen infrastructure, renewable generation, and industrial decarbonization are expanding opportunities for wind-power developers. Combining wind projects with hydrogen facilities can additionally create a productive use for electricity that might otherwise face periods of low demand or curtailment. As governments and businesses develop hydrogen strategies and seek cleaner energy alternatives for industrial processes, the requirement for renewable electricity supplied by onshore wind is expected to grow substantially.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by extensive wind-power installations, ambitious renewable-energy objectives, and increasing investment in electricity infrastructure. China plays a major role through its substantial installed wind capacity, strong turbine manufacturing ecosystem, and ongoing development of large onshore projects. India is likewise contributing to regional expansion through renewable-energy policies and growing wind-power investments. Increasing electricity consumption, industrial development, decarbonization efforts, and improvements in transmission infrastructure across Asian economies are supporting further deployment. In addition, well-established regional manufacturing networks and competitive turbine production capabilities are reinforcing

Asia Pacific's leading position in the global onshore wind energy market.

Region with highest CAGR:

Over the forecast period, the Latin America region is anticipated to exhibit the highest CAGR, driven by abundant wind potential, rising renewable-energy investments, and efforts to create more diversified power systems. Governments throughout the region are implementing supportive clean-energy policies while attracting private capital toward renewable generation. Brazil represents a key market because of its favorable wind conditions, experienced wind-project developers, and continuing deployment of onshore wind facilities. Increasing power requirements, emissions-reduction goals, and efforts to limit reliance on conventional generation are encouraging further development. Expanding transmission networks, attractive project economics, and growing corporate interest in renewable electricity are also expected to strengthen onshore wind energy growth across Latin America.

Key players in the market

Some of the key players in Onshore Wind Energy Market include Vestas Wind Systems A/S, Siemens Gamesa Renewable Energy S.A., GE Vernova Inc., Goldwind Science & Technology Co., Ltd., Envision Energy, Enercon GmbH, Mingyang Smart Energy Group Co., Ltd., Nordex SE, Windey Energy Technology Group Co., Ltd., SANY Renewable Energy Co., Ltd., Dongfang Electric Corporation, Shanghai Electric Wind Power Group Co., Ltd., CRRC Corporation Limited, CSSC Haizhuang Wind Power Co., Ltd., United Power Technology Co., Ltd., Suzlon Energy Limited, Inox Wind Limited and Hitachi Energy Ltd.

Key Developments:

In August 2026, GE Vernova signed an agreement with Enfinity Global to supply and install 43 of its 3.8 MW–154m onshore wind turbines for the 163.4 MW Fatehgarh Wind Farm in Rajasthan, India. GE Vernova described the collaboration as a strategic partnership leveraging AI-powered digital blade certification to support turbine performance and reliability.

In December 2025, Vestas and Casa dos Ventos announced a new stage of their long-standing partnership for the 828 MW Dom Inoc?ncio Wind Complex in Brazil.

Turbine Configurations Covered:

Horizontal-Axis Wind Turbines

Vertical-Axis Wind Turbines

Components Covered:

Rotor Blades

Nacelle

Gearbox

Generator

Tower

Pitch System

Yaw System

Control System

Power Converter

Main Shaft and Bearings

Turbine Capacities Covered:

Less Than 1 MW

1–3 MW

3–5 MW

5–10 MW

Above 10 MW

Installation Types Covered:

New-Build Installations

Repowering and Retrofit Installations

Wind Resources Covered:

High-Wind-Speed Sites

Medium-Wind-Speed Sites

Low-Wind-Speed Sites

Grid Connectivity's Covered:

On-Grid

Off-Grid

Ownership Models Covered:

Utility-Owned Projects

Independent Power Producer-Owned Projects

Corporate-Owned

Community-Owned Projects

Public-Private Partnership Projects

Power Procurement Models Covered:

Power Purchase Agreements

Merchant Power Sales

Feed-in Tariffs

Contracts for Difference

Captive Consumption

Corporate Renewable Energy Procurement

Open Access

Technologies Covered:

Geared Wind Turbines

Direct-Drive Wind Turbines

Permanent-Magnet Direct-Drive Turbines

Variable-Speed Wind Turbines

Advanced Control Systems

SCADA Systems

Applications Covered:

Utility-Scale Power Generation

Commercial and Industrial Power Generation

Distributed Power Generation

Community Wind Power

Agricultural Applications

Microgrids

Green Hydrogen Production

Wind-Solar Hybrid Power Generation

End Users Covered:

Electric Utilities

Independent Power Producers

Commercial and Industrial Users

Government and Public Sector

Community and Cooperative Organizations

Agricultural Users

Remote and Off-Grid Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Onshore Wind Energy Market Forecasts To 2034 – Global Analysis By Turbine Configuration (Horizontal-Axis Wind...

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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