

Wind Tower Market Forecasts to 2034 – Global Analysis By Tower Type (Tubular Steel Towers, Concrete Towers, Hybrid Steel-Concrete Towers, Lattice Towers, Composite Towers, and Other Tower Types), Tower Height, Turbine Capacity, Deployment, End User, and By Geography

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Abstracts

According to Statistics MRC, the Global Wind Tower Market is accounted for \$32.7 billion in 2026 and is expected to reach \$61.9 billion by 2034 growing at a CAGR of 8.3% during the forecast period. Wind towers are the structural support systems that elevate wind turbine nacelles and blades to heights where wind resources are stronger and more consistent, enabling efficient energy generation. The market encompasses various tower types including tubular steel towers, concrete towers, hybrid steel-concrete towers, lattice towers, composite towers, and other designs, serving a range of tower heights from up to 80 meters to above 160 meters. As the wind energy sector expands globally to meet renewable energy targets, the demand for advanced, cost-effective, and taller wind towers is increasing, driven by the need to access higher wind speeds and accommodate larger turbine capacities.

Market Dynamics:

Driver:

Increasing global wind energy capacity installations

The rapid expansion of wind energy capacity worldwide is a primary driver for the wind tower market. With countries across the globe committing to ambitious renewable

energy targets and carbon reduction goals, wind power has emerged as a cornerstone of the energy transition. Each new onshore and offshore wind farm requires substantial tower infrastructure, driving consistent demand for tower manufacturers. The offshore wind sector, in particular, is experiencing significant growth, creating demand for specialized tower designs. As global wind installations continue rising, the wind tower market benefits from sustained, long-term demand supported by policy frameworks and corporate renewable energy procurement.

Restraint:

High logistical and transportation costs

The significant logistical challenges and high transportation costs associated with wind tower delivery represent a major restraint for the market. Wind towers are large, heavy structures that require specialized transportation equipment and careful route planning. Transporting towers from manufacturing facilities to often remote wind farm sites involves substantial logistics costs, which can account for a significant portion of total project expenses. Infrastructure limitations including narrow roads, bridge weight restrictions, and port facilities can constrain tower size and design options. These logistical challenges affect project economics, particularly for taller towers requiring larger sections, and may limit market growth in regions with inadequate transportation infrastructure.

Opportunity:

Development of taller towers enabling higher capacity turbines

The industry-wide trend toward taller wind towers presents significant opportunities for market expansion. Taller towers access higher wind speeds that are more consistent and less turbulent, enabling greater energy capture and improved project economics. Advanced tower designs including concrete and hybrid solutions are enabling heights exceeding 160 meters. The development of modular tower designs is reducing logistical constraints and enabling on-site assembly. As turbine capacities continue increasing, taller towers capable of supporting larger nacelles and longer blades are essential. This trend toward taller towers drives innovation in materials, manufacturing, and logistics, capturing growing market share.

Threat:

Competition from alternative renewable energy sources

Competition from alternative renewable energy sources including solar PV and hydropower poses significant threats to the wind tower market. Solar PV technology has experienced dramatic cost reductions and capacity growth, becoming competitive with wind in many markets. Energy storage solutions combined with solar are offering dispatchable renewable power. Limited suitable sites for wind development in some regions may favor solar projects. Policy focus may shift among renewable technologies depending on cost competitiveness and grid integration considerations. This competition may affect wind capacity additions and tower demand in certain markets.

Covid-19 Impact:

The COVID-19 pandemic had a significant impact on the wind tower market. Initial disruptions included supply chain interruptions, manufacturing slowdowns, and project delays due to lockdowns and workforce restrictions. However, the pandemic reinforced the importance of renewable energy for sustainable economic recovery, with many governments including wind power in stimulus packages. The offshore wind sector showed particular resilience with continued project development. Post-pandemic, wind capacity installations have recovered strongly, with the market benefiting from renewed policy focus on renewable energy and energy security.

The Tubular Steel Towers segment is expected to be the largest during the forecast period

The Tubular Steel Towers segment is expected to account for the largest market share during the forecast period, driven by their widespread adoption across onshore wind installations and well-established manufacturing and logistics infrastructure. Tubular steel towers, including cylindrical and conical designs, are the most common tower type for onshore wind turbines, offering strength, durability, and cost-effectiveness. The segment benefits from mature supply chains, established industry standards, and extensive track record of performance. The availability of specialized manufacturing facilities and transportation equipment supports market accessibility. As onshore wind installations continue expanding globally, tubular steel towers maintain the largest segment share.

The Above 160 Meters segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Above 160 Meters segment is predicted to witness the highest growth rate, fueled by the industry trend toward taller towers enabling higher energy capture and supporting larger turbine capacities. Towers above 160 meters access superior wind resources, improving project economics and enabling deployment in lower wind speed regions. The segment benefits from innovations in concrete and hybrid tower designs enabling cost-effective tall tower solutions. Growing offshore wind developments, requiring taller towers for deeper water locations, support segment growth. As technological advancements make taller towers economically viable, this tower height segment delivers the fastest market growth.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, supported by the world's largest wind turbine market, rapid capacity installations, and strong manufacturing capabilities. China leads global wind energy capacity with substantial domestic demand and supportive policies. India and other Southeast Asian countries are expanding wind capacity, creating tower demand. The region's large manufacturing base provides cost advantages and supply chain efficiency. Government policies promoting renewable energy and domestic content requirements support local tower manufacturing. With the world's largest wind capacity additions and established tower production, Asia Pacific maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by continued capacity additions, offshore wind development, and rising demand for taller towers in China, India, and Southeast Asia. The region's rapidly growing energy demand and commitments to carbon neutrality are accelerating wind capacity expansion. Government policies supporting renewable energy and energy security are strengthening. Developing supply chains and infrastructure for offshore wind create tower demand. As the world's largest and fastest-growing wind market, Asia Pacific delivers the fastest wind tower market growth globally.

Key players in the market

Some of the key players in Wind Tower Market include Vestas Wind Systems A/S, Siemens Gamesa Renewable Energy S.A., GE Vernova Inc., CS Wind Corporation, Arcosa, Inc., GRI Renewable Industries, Marmen Inc., Valmont Industries, Inc., KGW Schweriner Maschinenbau GmbH, Broadwind, Inc., Modvion AB, Enercon GmbH,

Qingdao Tianneng Heavy Industries Co., Ltd., Shanghai Taisheng Wind Power Equipment Co., Ltd., DHHI Group, Titan Wind Energy (Suzhou) Co., Ltd., Ventower Industries LLC, and Rohn Products International.

Key Developments:

In August 2026, GE Vernova signed a major agreement to supply 43 of its 3.8 MW–154m onshore wind turbines with tubular steel towers for the Fatehgarh Wind Farm in Rajasthan, India.

In July 2026, CS WIND Offshore completed the load-out and delivery of transition pieces for Vattenfall's Nordlicht offshore wind farm from its Port of Aalborg hub.

In March 2026, Valmont outlined strategic capital investments of \$130 million to \$150 million targeted at expanding infrastructure throughput, including heavy utility and renewable structural steel assets.

In November 2025, Siemens Gamesa advanced its offshore foundation and tower integration portfolio to support 14 MW+ turbine installations across North Sea and Baltic offshore wind developments.

Tower Types Covered:

Tubular Steel Towers

Concrete Towers

Hybrid Steel-Concrete Towers

Lattice Towers

Composite Towers

Other Tower Types

Tower Heights Covered:

Up to 80 Meters

81–120 Meters

121–160 Meters

Above 160 Meters

Turbine Capacities Covered:

Up to 2 MW

Above 2 MW to 5 MW

Above 5 MW to 8 MW

Above 8 MW

Deployments Covered:

Onshore

Offshore

End Users Covered:

Wind Turbine Manufacturers

Wind Farm Developers

Independent Power Producers (IPPs)

Utility Companies

Government and Public Energy Entities

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:

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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