

Global Steel-Concrete Hybrid Turbine Tower Market Growth 2026-2032

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Abstracts

The global Steel-Concrete Hybrid Turbine Tower market size is predicted to grow from US\$ 543 million in 2025 to US\$ 854 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

A Steel-Concrete Hybrid Turbine Tower is a wind turbine support structure composed of both steel tower sections and concrete tower sections. In most designs, the lower part of the tower is made of precast or cast-in-place concrete, while the upper part uses conventional tubular steel sections. These sections are connected through flanges, prestressing tendons, transition rings, or dedicated connection components to form an integrated load-bearing structure. Compared with all-steel towers, steel-concrete hybrid towers can provide higher stiffness and load-bearing capacity at greater hub heights, reduce transportation constraints associated with large-diameter steel sections, and lower steel consumption in some designs. Compared with all-concrete towers, the upper steel section is easier to manufacture, transport, install, and connect with the wind turbine nacelle. Therefore, hybrid towers are mainly used for large-capacity onshore wind turbines, high-hub-height wind projects, low-wind-speed areas, and wind farms requiring stronger structural stability and better transport adaptability. In 2025, global Steel-Concrete Hybrid Turbine Tower production reached approximately 527 Units, with an average global market price of around 1054 k USD/Unit. The production capacity for Steel-Concrete Hybrid Turbine Tower in 2025 was approximately 600 Units. The typical gross profit margin for Steel-Concrete Hybrid Turbine Tower between 20% and 40%.

The Steel-Concrete Hybrid Turbine Tower market is mainly driven by the trend toward larger wind turbines, higher hub heights, and the development of low-wind-speed wind resources. As onshore wind projects move toward higher towers, larger rotor diameters, and greater turbine capacities, conventional all-steel towers face challenges related to

transportation diameter limits, structural stiffness, material cost, and fatigue performance. As a result, steel-concrete hybrid towers have become an important technical solution for high-tower wind projects. They are particularly suitable for inland low-wind-speed areas, mountainous wind farms, utility-scale onshore wind bases, and projects where transportation conditions are constrained but higher tower heights are required. Market competition is expected to focus on the manufacturing accuracy of precast concrete sections, on-site assembly efficiency, connection reliability, fatigue resistance, construction cycle control, and lifecycle cost optimization. In the future, as large-megawatt onshore turbines continue to expand and wind farm developers seek higher power generation efficiency and better land utilization, the adoption of steel-concrete hybrid turbine towers is likely to increase. However, market growth may still be constrained by construction complexity, regional supply chain coverage, transportation of concrete components, lifting capacity, and project-scale economics.

LP Information, Inc. (LPI) ' newest research report, the "Steel-Concrete Hybrid Turbine Tower Industry Forecast" looks at past sales and reviews total world Steel-Concrete Hybrid Turbine Tower sales in 2025, providing a comprehensive analysis by region and market sector of projected Steel-Concrete Hybrid Turbine Tower sales for 2026 through 2032. With Steel-Concrete Hybrid Turbine Tower sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Steel-Concrete Hybrid Turbine Tower industry.

This Insight Report provides a comprehensive analysis of the global Steel-Concrete Hybrid Turbine Tower landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Steel-Concrete Hybrid Turbine Tower portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Steel-Concrete Hybrid Turbine Tower market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Steel-Concrete Hybrid Turbine Tower and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Steel-Concrete Hybrid Turbine Tower.

This report presents a comprehensive overview, market shares, and growth opportunities of Steel-Concrete Hybrid Turbine Tower market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cast-in-place Hybrid Tower

Precast Assembled Hybrid Tower

Post-tensioned Hybrid Tower

Segmentation by Power:

?3 MW

3?6 MW

6?10 MW

?10 MW

Segmentation by Height:

70?90 m

90?120 m

120?160 m

160 m+

Segmentation by Application:

Onshore Wind Power

Offshore Wind Power

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Enercon

Vestas

Siemens Gamesa

Windar Renovables

Arcosa Towers

Marmen

Shanghai Taisheng

Titan Wind Energy

Haili Wind Power

Dajin Heavy Industry

Key Questions Addressed in this Report

What is the 10-year outlook for the global Steel-Concrete Hybrid Turbine Tower market?

What factors are driving Steel-Concrete Hybrid Turbine Tower market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Steel-Concrete Hybrid Turbine Tower market opportunities vary by end market size?

How does Steel-Concrete Hybrid Turbine Tower break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Steel-Concrete Hybrid Turbine Tower Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Steel-Concrete Hybrid Turbine Tower by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Steel-Concrete Hybrid Turbine Tower by Country/Region, 2021, 2025 & 2032
- 2.2 Steel-Concrete Hybrid Turbine Tower Segment by Type
 - 2.2.1 Cast-in-place Hybrid Tower
 - 2.2.2 Precast Assembled Hybrid Tower
 - 2.2.3 Post-tensioned Hybrid Tower
 - 2.2.4 Steel-Concrete Hybrid Turbine Tower Sales by Type
 - 2.2.4.1 Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Steel-Concrete Hybrid Turbine Tower Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Steel-Concrete Hybrid Turbine Tower Sale Price by Type (2021-2026)
- 2.3 Steel-Concrete Hybrid Turbine Tower Segment by Power
 - 2.3.1 3 MW
 - 2.3.2 3-6 MW
 - 2.3.3 6-10 MW
 - 2.3.4 >10 MW
 - 2.3.5 Steel-Concrete Hybrid Turbine Tower Sales by Power
 - 2.3.5.1 Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Power (2021-2026)

2.3.5.2 Global Steel-Concrete Hybrid Turbine Tower Revenue and Market Share by Power (2021-2026)

2.3.5.3 Global Steel-Concrete Hybrid Turbine Tower Sale Price by Power (2021-2026)

2.4 Steel-Concrete Hybrid Turbine Tower Segment by Height

2.4.1 70?90 m

2.4.2 90?120 m

2.4.3 120?160 m

2.4.4 160 m+

2.4.5 Steel-Concrete Hybrid Turbine Tower Sales by Height

2.4.5.1 Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Height (2021-2026)

2.4.5.2 Global Steel-Concrete Hybrid Turbine Tower Revenue and Market Share by Height (2021-2026)

2.4.5.3 Global Steel-Concrete Hybrid Turbine Tower Sale Price by Height (2021-2026)

2.5 Steel-Concrete Hybrid Turbine Tower Segment by Application

2.5.1 Onshore Wind Power

2.5.2 Offshore Wind Power

2.5.3 Steel-Concrete Hybrid Turbine Tower Sales by Application

2.5.3.1 Global Steel-Concrete Hybrid Turbine Tower Sale Market Share by Application (2021-2026)

2.5.3.2 Global Steel-Concrete Hybrid Turbine Tower Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global Steel-Concrete Hybrid Turbine Tower Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Steel-Concrete Hybrid Turbine Tower Breakdown Data by Company

3.1.1 Global Steel-Concrete Hybrid Turbine Tower Annual Sales by Company (2021-2026)

3.1.2 Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Company (2021-2026)

3.2 Global Steel-Concrete Hybrid Turbine Tower Annual Revenue by Company (2021-2026)

3.2.1 Global Steel-Concrete Hybrid Turbine Tower Revenue by Company (2021-2026)

3.2.2 Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Company (2021-2026)

- 3.3 Global Steel-Concrete Hybrid Turbine Tower Sale Price by Company
- 3.4 Key Manufacturers Steel-Concrete Hybrid Turbine Tower Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Steel-Concrete Hybrid Turbine Tower Product Location Distribution
 - 3.4.2 Players Steel-Concrete Hybrid Turbine Tower Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR STEEL-CONCRETE HYBRID TURBINE TOWER BY GEOGRAPHIC REGION

- 4.1 World Historic Steel-Concrete Hybrid Turbine Tower Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Steel-Concrete Hybrid Turbine Tower Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Steel-Concrete Hybrid Turbine Tower Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Steel-Concrete Hybrid Turbine Tower Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Steel-Concrete Hybrid Turbine Tower Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Steel-Concrete Hybrid Turbine Tower Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Steel-Concrete Hybrid Turbine Tower Sales Growth
- 4.4 APAC Steel-Concrete Hybrid Turbine Tower Sales Growth
- 4.5 Europe Steel-Concrete Hybrid Turbine Tower Sales Growth
- 4.6 Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales Growth

5 AMERICAS

- 5.1 Americas Steel-Concrete Hybrid Turbine Tower Sales by Country
 - 5.1.1 Americas Steel-Concrete Hybrid Turbine Tower Sales by Country (2021-2026)
 - 5.1.2 Americas Steel-Concrete Hybrid Turbine Tower Revenue by Country (2021-2026)
- 5.2 Americas Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026)

5.3 Americas Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Steel-Concrete Hybrid Turbine Tower Sales by Region

6.1.1 APAC Steel-Concrete Hybrid Turbine Tower Sales by Region (2021-2026)

6.1.2 APAC Steel-Concrete Hybrid Turbine Tower Revenue by Region (2021-2026)

6.2 APAC Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026)

6.3 APAC Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Steel-Concrete Hybrid Turbine Tower by Country

7.1.1 Europe Steel-Concrete Hybrid Turbine Tower Sales by Country (2021-2026)

7.1.2 Europe Steel-Concrete Hybrid Turbine Tower Revenue by Country (2021-2026)

7.2 Europe Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026)

7.3 Europe Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Steel-Concrete Hybrid Turbine Tower by Country

8.1.1 Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by Country (2021-2026)

8.1.2 Middle East & Africa Steel-Concrete Hybrid Turbine Tower Revenue by Country (2021-2026)

8.2 Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026)

8.3 Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Steel-Concrete Hybrid Turbine Tower

10.3 Manufacturing Process Analysis of Steel-Concrete Hybrid Turbine Tower

10.4 Industry Chain Structure of Steel-Concrete Hybrid Turbine Tower

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Steel-Concrete Hybrid Turbine Tower Distributors

11.3 Steel-Concrete Hybrid Turbine Tower Customer

12 WORLD FORECAST REVIEW FOR STEEL-CONCRETE HYBRID TURBINE TOWER BY GEOGRAPHIC REGION

12.1 Global Steel-Concrete Hybrid Turbine Tower Market Size Forecast by Region

12.1.1 Global Steel-Concrete Hybrid Turbine Tower Forecast by Region (2027-2032)

12.1.2 Global Steel-Concrete Hybrid Turbine Tower Annual Revenue Forecast by

Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Steel-Concrete Hybrid Turbine Tower Forecast by Type (2027-2032)

12.7 Global Steel-Concrete Hybrid Turbine Tower Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Enercon

13.1.1 Enercon Company Information

13.1.2 Enercon Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.1.3 Enercon Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Enercon Main Business Overview

13.1.5 Enercon Latest Developments

13.2 Vestas

13.2.1 Vestas Company Information

13.2.2 Vestas Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.2.3 Vestas Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Vestas Main Business Overview

13.2.5 Vestas Latest Developments

13.3 Siemens Gamesa

13.3.1 Siemens Gamesa Company Information

13.3.2 Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.3.3 Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Siemens Gamesa Main Business Overview

13.3.5 Siemens Gamesa Latest Developments

13.4 Windar Renovables

13.4.1 Windar Renovables Company Information

13.4.2 Windar Renovables Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.4.3 Windar Renovables Steel-Concrete Hybrid Turbine Tower Sales, Revenue,

Price and Gross Margin (2021-2026)

13.4.4 Windar Renovables Main Business Overview

13.4.5 Windar Renovables Latest Developments

13.5 Arcosa Towers

13.5.1 Arcosa Towers Company Information

13.5.2 Arcosa Towers Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.5.3 Arcosa Towers Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Arcosa Towers Main Business Overview

13.5.5 Arcosa Towers Latest Developments

13.6 Marmen

13.6.1 Marmen Company Information

13.6.2 Marmen Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.6.3 Marmen Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Marmen Main Business Overview

13.6.5 Marmen Latest Developments

13.7 Shanghai Taisheng

13.7.1 Shanghai Taisheng Company Information

13.7.2 Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.7.3 Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shanghai Taisheng Main Business Overview

13.7.5 Shanghai Taisheng Latest Developments

13.8 Titan Wind Energy

13.8.1 Titan Wind Energy Company Information

13.8.2 Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.8.3 Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Titan Wind Energy Main Business Overview

13.8.5 Titan Wind Energy Latest Developments

13.9 Haili Wind Power

13.9.1 Haili Wind Power Company Information

13.9.2 Haili Wind Power Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.9.3 Haili Wind Power Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Haili Wind Power Main Business Overview

13.9.5 Haili Wind Power Latest Developments

13.10 Dajin Heavy Industry

13.10.1 Dajin Heavy Industry Company Information

13.10.2 Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

13.10.3 Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Dajin Heavy Industry Main Business Overview

13.10.5 Dajin Heavy Industry Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Steel-Concrete Hybrid Turbine Tower Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Steel-Concrete Hybrid Turbine Tower Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Cast-in-place Hybrid Tower

Table 4. Major Players of Precast Assembled Hybrid Tower

Table 5. Major Players of Post-tensioned Hybrid Tower

Table 6. Global Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026) & (Units)

Table 7. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)

Table 8. Global Steel-Concrete Hybrid Turbine Tower Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Type (2021-2026)

Table 10. Global Steel-Concrete Hybrid Turbine Tower Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of 3 MW

Table 12. Major Players of 3-6 MW

Table 13. Major Players of 6-10 MW

Table 14. Major Players of 10 MW

Table 15. Global Steel-Concrete Hybrid Turbine Tower Sales by Power (2021-2026) & (Units)

Table 16. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Power (2021-2026)

Table 17. Global Steel-Concrete Hybrid Turbine Tower Revenue by Power (2021-2026) & (\$ million)

Table 18. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Power (2021-2026)

Table 19. Global Steel-Concrete Hybrid Turbine Tower Sale Price by Power (2021-2026) & (K US\$/Unit)

Table 20. Major Players of 70-90 m

Table 21. Major Players of 90-120 m

Table 22. Major Players of 120-160 m

Table 23. Major Players of 160 m+

Table 24. Global Steel-Concrete Hybrid Turbine Tower Sales by Height (2021-2026) & (Units)

Table 25. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Height (2021-2026)

Table 26. Global Steel-Concrete Hybrid Turbine Tower Revenue by Height (2021-2026) & (\$ million)

Table 27. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Height (2021-2026)

Table 28. Global Steel-Concrete Hybrid Turbine Tower Sale Price by Height (2021-2026) & (K US\$/Unit)

Table 29. Global Steel-Concrete Hybrid Turbine Tower Sale by Application (2021-2026) & (Units)

Table 30. Global Steel-Concrete Hybrid Turbine Tower Sale Market Share by Application (2021-2026)

Table 31. Global Steel-Concrete Hybrid Turbine Tower Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Application (2021-2026)

Table 33. Global Steel-Concrete Hybrid Turbine Tower Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 34. Global Steel-Concrete Hybrid Turbine Tower Sales by Company (2021-2026) & (Units)

Table 35. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Company (2021-2026)

Table 36. Global Steel-Concrete Hybrid Turbine Tower Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Company (2021-2026)

Table 38. Global Steel-Concrete Hybrid Turbine Tower Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 39. Key Manufacturers Steel-Concrete Hybrid Turbine Tower Producing Area Distribution and Sales Area

Table 40. Players Steel-Concrete Hybrid Turbine Tower Products Offered

Table 41. Steel-Concrete Hybrid Turbine Tower Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Steel-Concrete Hybrid Turbine Tower Sales by Geographic Region (2021-2026) & (Units)

Table 45. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share Geographic Region (2021-2026)

Table 46. Global Steel-Concrete Hybrid Turbine Tower Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Steel-Concrete Hybrid Turbine Tower Sales by Country/Region (2021-2026) & (Units)

Table 49. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country/Region (2021-2026)

Table 50. Global Steel-Concrete Hybrid Turbine Tower Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Steel-Concrete Hybrid Turbine Tower Sales by Country (2021-2026) & (Units)

Table 53. Americas Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country (2021-2026)

Table 54. Americas Steel-Concrete Hybrid Turbine Tower Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026) & (Units)

Table 56. Americas Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026) & (Units)

Table 57. APAC Steel-Concrete Hybrid Turbine Tower Sales by Region (2021-2026) & (Units)

Table 58. APAC Steel-Concrete Hybrid Turbine Tower Sales Market Share by Region (2021-2026)

Table 59. APAC Steel-Concrete Hybrid Turbine Tower Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026) & (Units)

Table 61. APAC Steel-Concrete Hybrid Turbine Tower Sales by Application (2021-2026) & (Units)

Table 62. Europe Steel-Concrete Hybrid Turbine Tower Sales by Country (2021-2026) & (Units)

Table 63. Europe Steel-Concrete Hybrid Turbine Tower Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Steel-Concrete Hybrid Turbine Tower Sales by Type (2021-2026) &

(Units)

Table 65. Europe Steel-Concrete Hybrid Turbine Tower Sales by Application
(2021-2026) & (Units)

Table 66. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by Country
(2021-2026) & (Units)

Table 67. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Revenue Market
Share by Country (2021-2026)

Table 68. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by Type
(2021-2026) & (Units)

Table 69. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales by
Application (2021-2026) & (Units)

Table 70. Key Market Drivers & Growth Opportunities of Steel-Concrete Hybrid Turbine
Tower

Table 71. Key Market Challenges & Risks of Steel-Concrete Hybrid Turbine Tower

Table 72. Key Industry Trends of Steel-Concrete Hybrid Turbine Tower

Table 73. Steel-Concrete Hybrid Turbine Tower Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Steel-Concrete Hybrid Turbine Tower Distributors List

Table 76. Steel-Concrete Hybrid Turbine Tower Customer List

Table 77. Global Steel-Concrete Hybrid Turbine Tower Sales Forecast by Region
(2027-2032) & (Units)

Table 78. Global Steel-Concrete Hybrid Turbine Tower Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 79. Americas Steel-Concrete Hybrid Turbine Tower Sales Forecast by Country
(2027-2032) & (Units)

Table 80. Americas Steel-Concrete Hybrid Turbine Tower Annual Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 81. APAC Steel-Concrete Hybrid Turbine Tower Sales Forecast by Region
(2027-2032) & (Units)

Table 82. APAC Steel-Concrete Hybrid Turbine Tower Annual Revenue Forecast by
Region (2027-2032) & (\$ millions)

Table 83. Europe Steel-Concrete Hybrid Turbine Tower Sales Forecast by Country
(2027-2032) & (Units)

Table 84. Europe Steel-Concrete Hybrid Turbine Tower Revenue Forecast by Country
(2027-2032) & (\$ millions)

Table 85. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales Forecast by
Country (2027-2032) & (Units)

Table 86. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Revenue Forecast
by Country (2027-2032) & (\$ millions)

Table 87. Global Steel-Concrete Hybrid Turbine Tower Sales Forecast by Type (2027-2032) & (Units)

Table 88. Global Steel-Concrete Hybrid Turbine Tower Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Steel-Concrete Hybrid Turbine Tower Sales Forecast by Application (2027-2032) & (Units)

Table 90. Global Steel-Concrete Hybrid Turbine Tower Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. Enercon Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 92. Enercon Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 93. Enercon Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 94. Enercon Main Business

Table 95. Enercon Latest Developments

Table 96. Vestas Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 97. Vestas Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 98. Vestas Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 99. Vestas Main Business

Table 100. Vestas Latest Developments

Table 101. Siemens Gamesa Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 102. Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 103. Siemens Gamesa Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 104. Siemens Gamesa Main Business

Table 105. Siemens Gamesa Latest Developments

Table 106. Windar Renovables Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 107. Windar Renovables Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 108. Windar Renovables Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 109. Windar Renovables Main Business

Table 110. Windar Renovables Latest Developments

Table 111. Arcosa Towers Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 112. Arcosa Towers Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 113. Arcosa Towers Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 114. Arcosa Towers Main Business

Table 115. Arcosa Towers Latest Developments

Table 116. Marmen Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 117. Marmen Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 118. Marmen Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 119. Marmen Main Business

Table 120. Marmen Latest Developments

Table 121. Shanghai Taisheng Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 122. Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 123. Shanghai Taisheng Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 124. Shanghai Taisheng Main Business

Table 125. Shanghai Taisheng Latest Developments

Table 126. Titan Wind Energy Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 127. Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 128. Titan Wind Energy Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 129. Titan Wind Energy Main Business

Table 130. Titan Wind Energy Latest Developments

Table 131. Haili Wind Power Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 132. Haili Wind Power Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 133. Haili Wind Power Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 134. Haili Wind Power Main Business

Table 135. Haili Wind Power Latest Developments

Table 136. Dajin Heavy Industry Basic Information, Steel-Concrete Hybrid Turbine Tower Manufacturing Base, Sales Area and Its Competitors

Table 137. Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Product Portfolios and Specifications

Table 138. Dajin Heavy Industry Steel-Concrete Hybrid Turbine Tower Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 139. Dajin Heavy Industry Main Business

Table 140. Dajin Heavy Industry Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Steel-Concrete Hybrid Turbine Tower
- Figure 2. Steel-Concrete Hybrid Turbine Tower Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Steel-Concrete Hybrid Turbine Tower Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Steel-Concrete Hybrid Turbine Tower Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Steel-Concrete Hybrid Turbine Tower Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country/Region (2025)
- Figure 10. Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Cast-in-place Hybrid Tower
- Figure 12. Product Picture of Precast Assembled Hybrid Tower
- Figure 13. Product Picture of Post-tensioned Hybrid Tower
- Figure 14. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type in 2026
- Figure 15. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of 3 MW
- Figure 17. Product Picture of 3-6 MW
- Figure 18. Product Picture of 6-10 MW
- Figure 19. Product Picture of 10 MW
- Figure 20. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Power in 2026
- Figure 21. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Power (2021-2026)
- Figure 22. Product Picture of 70-90 m
- Figure 23. Product Picture of 90-120 m
- Figure 24. Product Picture of 120-160 m
- Figure 25. Product Picture of 160 m+
- Figure 26. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Height

in 2026

Figure 27. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Height (2021-2026)

Figure 28. Steel-Concrete Hybrid Turbine Tower Consumed in Onshore Wind Power

Figure 29. Global Steel-Concrete Hybrid Turbine Tower Market: Onshore Wind Power (2021-2026) & (Units)

Figure 30. Steel-Concrete Hybrid Turbine Tower Consumed in Offshore Wind Power

Figure 31. Global Steel-Concrete Hybrid Turbine Tower Market: Offshore Wind Power (2021-2026) & (Units)

Figure 32. Global Steel-Concrete Hybrid Turbine Tower Sale Market Share by Application (2025)

Figure 33. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Application in 2025

Figure 34. Steel-Concrete Hybrid Turbine Tower Sales by Company in 2025 (Units)

Figure 35. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Company in 2025

Figure 36. Steel-Concrete Hybrid Turbine Tower Revenue by Company in 2025 (\$ millions)

Figure 37. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Company in 2025

Figure 38. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Steel-Concrete Hybrid Turbine Tower Sales 2021-2026 (Units)

Figure 41. Americas Steel-Concrete Hybrid Turbine Tower Revenue 2021-2026 (\$ millions)

Figure 42. APAC Steel-Concrete Hybrid Turbine Tower Sales 2021-2026 (Units)

Figure 43. APAC Steel-Concrete Hybrid Turbine Tower Revenue 2021-2026 (\$ millions)

Figure 44. Europe Steel-Concrete Hybrid Turbine Tower Sales 2021-2026 (Units)

Figure 45. Europe Steel-Concrete Hybrid Turbine Tower Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales 2021-2026 (Units)

Figure 47. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Revenue 2021-2026 (\$ millions)

Figure 48. Americas Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country in 2025

Figure 49. Americas Steel-Concrete Hybrid Turbine Tower Revenue Market Share by

Country (2021-2026)

Figure 50. Americas Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)

Figure 51. Americas Steel-Concrete Hybrid Turbine Tower Sales Market Share by Application (2021-2026)

Figure 52. United States Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Steel-Concrete Hybrid Turbine Tower Sales Market Share by Region in 2025

Figure 57. APAC Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Region (2021-2026)

Figure 58. APAC Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)

Figure 59. APAC Steel-Concrete Hybrid Turbine Tower Sales Market Share by Application (2021-2026)

Figure 60. China Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country in 2025

Figure 68. Europe Steel-Concrete Hybrid Turbine Tower Revenue Market Share by Country (2021-2026)

Figure 69. Europe Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)

Figure 70. Europe Steel-Concrete Hybrid Turbine Tower Sales Market Share by Application (2021-2026)

Figure 71. Germany Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Steel-Concrete Hybrid Turbine Tower Sales Market Share by Application (2021-2026)

Figure 79. Egypt Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Steel-Concrete Hybrid Turbine Tower Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Steel-Concrete Hybrid Turbine Tower in 2026

Figure 85. Manufacturing Process Analysis of Steel-Concrete Hybrid Turbine Tower

Figure 86. Industry Chain Structure of Steel-Concrete Hybrid Turbine Tower

Figure 87. Channels of Distribution

Figure 88. Global Steel-Concrete Hybrid Turbine Tower Sales Market Forecast by Region (2027-2032)

Figure 89. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Steel-Concrete Hybrid Turbine Tower Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Steel-Concrete Hybrid Turbine Tower Revenue Market Share Forecast by Application (2027-2032)

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