

# **Middle East & Africa Wind Turbine Tower Market Forecast to 2030 - Regional Analysis - by Tower Type (Tubular Steel Towers, Lattice Towers, and Hybrid Towers) and Deployment Type (Onshore and Offshore)**

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## **Abstracts**

The Middle East & Africa wind turbine tower market was valued at US\$ 225.76 million in 2022 and is expected to reach US\$ 530.23 million by 2030; it is estimated to grow at a CAGR of 11.3% from 2022 to 2030.

### **Technology Advancements to Attain More Wind Energy Potential Drives Middle East & Africa Wind Turbine Tower Market**

Technological advancement in wind energy can reduce the operational cost in the near future. In terms of wind turbine towers, the manufacturing of taller towers can unlock the higher potential of the wind turbine. Stronger winds are normal at higher heights; sometimes, it is beyond the reach of conventional turbines. An average 17-meter increase in height can offer the additional clearance required for longer blades to attain those high-altitude winds. In addition, the application of concrete structures for offshore wind turbines provides many advantages over towers made of only steel, which include a longer lifespan and more durability. The taller wind turbine towers and concrete-based turbine towers have more potential in wind energy projects than conventional towers, which is one of the future trends for the wind turbine tower market.

### **Middle East & Africa Wind Turbine Tower Market Overview**

Egypt, South Africa, and Saudi Arabia are some of the major markets for wind turbine towers in the Middle East & Africa. These countries are substantially contributing to

wind energy production, which is further increasing the market growth. The prime aspects responsible for the market growth are the improved initiatives for using green energy sources to meet the growing power demand reducing dependency on fossil fuels coupled with supportive government policies.

As per the Global Wind Energy Council in April 2022, the Middle East & Africa are expected to add 14 GW of new wind power capacity by 2026. These new wind power capacity additions in the MEA are primarily led by South Africa (5.4 GW), Egypt (2.2 GW), Morocco (1.8 GW), and Saudi Arabia (1.3 GW). In the MEA, onshore wind energy power generation technology has evolved over the last five years to increase the power generation capacity to cover more sites with lower wind speeds in the Middle East & Africa. In May 2022, Savannah Energy built a 500 MW capacity renewable energy power plant in the Republic of Chad, which includes a 100 MW wind farm that will serve N'Djamena city under a new agreement signed with the Chadian government. In 2023, ACWA Power installed the largest wind turbine in the Bukhara region of Uzbekistan. ACWA Power's 500 MW wind farm is anticipated to feature 79 of the biggest wind turbines in Central Asia and is projected to generate over 1,650 GWh of electricity yearly. It will reduce carbon dioxide emissions by 750 tonnes per year. Thus, the addition of wind farms in renewable energy is strengthening the renewable energy capacity, lowering the emissions and dependence on fossil fuel-based power, which is expected to further fuel the market growth of wind turbine towers during the forecast period. Also, the increasing investment in the construction of wind farms in the region is raising the demand for wind turbine towers. This is further pushing the manufacturers to produce more efficient turbine towers, further boosting the market growth.

Middle East & Africa Wind Turbine Tower Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Wind Turbine Tower Market Segmentation

The Middle East & Africa wind turbine tower market is segmented based on tower type, deployment type, and country. Based on tower type, the Middle East & Africa wind turbine tower market is segmented into tubular steel towers, lattice towers, and hybrid towers. The tubular steel towers segment held the largest market share in 2022.

Based on deployment type, the Middle East & Africa wind turbine tower market is bifurcated into onshore services and offshore services. The onshore services held a larger market share in 2022.

Based on country, the Middle East & Africa wind turbine tower market is segmented into Saudi Arabia, Egypt, South Africa, and the Rest of Middle East & Africa. South Africa dominated the Middle East & Africa wind turbine tower market share in 2022.

Vestas Wind Systems AS, Siemens Gamesa Renewable Energy SA, Valmont Industries Inc, Nordex SE, and Cs Wind Corp are some of the leading companies operating in the Middle East & Africa wind turbine tower market.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Ecosystem Analysis
  - 4.2.1 Raw Material Suppliers
  - 4.2.2 Component Manufacturers
  - 4.2.3 End User

### **5. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET - KEY INDUSTRY DYNAMICS**

- 5.1 Wind Turbine Tower Market - Key Industry Dynamics
- 5.2 Market Drivers
  - 5.2.1 Increase in Number of Wind Farms
  - 5.2.2 Favorable Government Policies and Initiatives for Wind Energy
  - 5.2.3 Decreased Cost of Tower Manufacturing
- 5.3 Market Restraints
  - 5.3.1 Overdependence on Chinese Wind Turbine Tower Manufacturers
- 5.4 Market Opportunities
  - 5.4.1 Rising Demand for Floating Wind Technology
- 5.5 Future Trends

- 5.5.1 Technology Advancements to Attain More Wind Energy Potential
- 5.6 Impact of Drivers and Restraints:

## **6. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET - MARKET ANALYSIS**

- 6.1 Wind Turbine Tower Market Revenue (US\$ Million), 2022 - 2030
- 6.2 Wind Turbine Tower Market Forecast and Analysis

## **7. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET ANALYSIS - TOWER TYPE**

- 7.1 Wind Turbine Tower Market, By Tower Type (2022 and 2030)
- 7.2 Tubular Steel Towers
  - 7.2.1 Overview
  - 7.2.2 Tubular Steel Towers Market, Revenue and Forecast to 2030 (US\$ Million)
- 7.3 Lattice Towers
  - 7.3.1 Overview
  - 7.3.2 Lattice Towers Market, Revenue and Forecast to 2030 (US\$ Million)
- 7.4 Hybrid Towers
  - 7.4.1 Overview
  - 7.4.2 Hybrid Towers Market, Revenue and Forecast to 2030 (US\$ Million)

## **8. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET ANALYSIS - DEPLOYMENT TYPE**

- 8.1 Wind Turbine Tower Market, By Deployment Type (2022 and 2030)
- 8.2 Onshore
  - 8.2.1 Overview
  - 8.2.2 Onshore Market, Revenue and Forecast to 2030 (US\$ Million)
- 8.3 Offshore
  - 8.3.1 Overview
  - 8.3.2 Offshore Market, Revenue and Forecast to 2030 (US\$ Million)

## **9. MIDDLE EAST & AFRICA WIND TURBINE TOWER MARKET - COUNTRY ANALYSIS**

- 9.1 Middle East & Africa
  - 9.1.1 Middle East & Africa Wind Turbine Tower Market Overview

## 9.1.2 Middle East & Africa Wind Turbine Tower Market Revenue and Forecasts and Analysis - By Country

### 9.1.2.1 South Africa Wind Turbine Tower Market Revenue and Forecasts to 2030 (US\$ Mn)

#### 9.1.2.1.1 South Africa Wind Turbine Tower Market Breakdown by Tower Type

#### 9.1.2.1.2 South Africa Wind Turbine Tower Market Breakdown by Deployment Type

### 9.1.2.2 Saudi Arabia Wind Turbine Tower Market Revenue and Forecasts to 2030 (US\$ Mn)

#### 9.1.2.2.1 Saudi Arabia Wind Turbine Tower Market Breakdown by Tower Type

#### 9.1.2.2.2 Saudi Arabia Wind Turbine Tower Market Breakdown by Deployment Type

### 9.1.2.3 Egypt Wind Turbine Tower Market Revenue and Forecasts to 2030 (US\$ Mn)

#### 9.1.2.3.1 Egypt Wind Turbine Tower Market Breakdown by Tower Type

#### 9.1.2.3.2 Egypt Wind Turbine Tower Market Breakdown by Deployment Type

### 9.1.2.4 Rest of MEA Wind Turbine Tower Market Revenue and Forecasts to 2030 (US\$ Mn)

#### 9.1.2.4.1 Rest of MEA Wind Turbine Tower Market Breakdown by Tower Type

#### 9.1.2.4.2 Rest of MEA Wind Turbine Tower Market Breakdown by Deployment Type

## 10. COMPETITIVE LANDSCAPE

### 10.1 Heat Map Analysis by Key Players

## 11. INDUSTRY LANDSCAPE

### 11.1 Overview

### 11.2 New Product Development

### 11.3 Market Initiative

## 12. COMPANY PROFILES

### 12.1 Vestas Wind Systems AS

#### 12.1.1 Key Facts

#### 12.1.2 Business Description

#### 12.1.3 Products and Services

#### 12.1.4 Financial Overview

#### 12.1.5 SWOT Analysis

#### 12.1.6 Key Developments

### 12.2 Siemens Gamesa Renewable Energy SA

#### 12.2.1 Key Facts

- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 Valmont Industries Inc
  - 12.3.1 Key Facts
  - 12.3.2 Business Description
  - 12.3.3 Products and Services
  - 12.3.4 Financial Overview
  - 12.3.5 SWOT Analysis
  - 12.3.6 Key Developments
- 12.4 Nordex SE
  - 12.4.1 Key Facts
  - 12.4.2 Business Description
  - 12.4.3 Products and Services
  - 12.4.4 Financial Overview
  - 12.4.5 SWOT Analysis
  - 12.4.6 Key Developments
- 12.5 Cs Wind Corp
  - 12.5.1 Key Facts
  - 12.5.2 Business Description
  - 12.5.3 Products and Services
  - 12.5.4 Financial Overview
  - 12.5.5 SWOT Analysis
  - 12.5.6 Key Developments

## **13. APPENDIX**

- 13.1 About The Insight Partners

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