

# Middle East & Africa Wind Turbine Generator Market Forecast to 2030 - Regional Analysis - by Type (Direct Current and AC Synchronous) and Deployment Type (Onshore and Offshore)

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## Abstracts

The Middle East & Africa wind turbine generator market was valued at US\$ 64.50 million in 2022 and is expected to reach US\$ 151.49 million by 2030; it is estimated to grow at a CAGR of 11.3% from 2022 to 2030.

### Rising Demand for Floating Wind Technology Bolsters Middle East & Africa Wind Turbine Generator Market

In deep water, the offshore wind turbine is mounted on a floating structure, which allows the turbine to generate electricity in the water depths. The floating wind technology is highly efficient in harsh conditions and, thus, capable of producing high power. Further, the demand for floating wind technology is growing in the market due to the increase in technological advancements, advantages associated with floating wind technology, and turnkey solutions provided by service providers. The growing awareness regarding clean energy in various countries is also propelling the demand for floating offshore wind power, thereby boosting the growth of the wind turbine generators and other components market.

Various investments are made in floating wind turbine projects by the governments of different countries. In addition, in June 2022, Equinor collaborated with Technip Energies to develop floating wind steel SEMI substructures that accelerate technology development for floating offshore wind. Saudi Arabia is constructing a 500 MW floating offshore wind farm in cooperation with the UAE-based renewables investor Plambeck and the Italian energy business Saipem. The project is expected to be operational by

2027. Further, in 2022, in order to establish a center for the construction of its floating wind platform at the Ferrofab Jebel Ali facility in the UAE, floating offshore wind platform developer Gazelle Wind Power (Gazelle) has signed a memorandum of understanding (MOU) with Ferrofab FZE (Ferrofab), an engineering and manufacturing firm based in the UAE.

## Middle East & Africa Wind Turbine Generator Market Overview

The Middle East & Africa (MEA) wind turbine generator market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of MEA. South Africa, Egypt, Morocco, and Kenya are a few major countries dominating the wind energy demand. These countries are significantly contributing to wind energy production. The key factors responsible for the market growth are the increased initiatives for using clean energy sources to meet the rising power demand, supportive government policies, and reducing dependency on fossil fuels. For instance, in June 2022, a Saudi Arabian energy company signed an agreement with the Egyptian government. As per this agreement, the government will invest US\$ 1.5 billion to develop a major wind project in Egypt. Upon completion, the facility will provide 1.1 GW of wind power, providing electricity to more than 1 million homes. Morocco, Egypt, and South Africa have successfully harnessed their wind potential, attracting private capital to set up wind parks.

According to the Global Wind Energy Council in April 2022, the MEA is 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 MEA region. 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. Thus, the integration of wind farms in renewable energy is augmenting the renewable energy capacity, reducing the emissions and dependency on fossil fuel-based power, which is further fueling the wind turbine generator market growth. Also, the growing investment in the construction of wind farms in the region is raising the demand for wind turbine generators. This is further pushing the manufacturers to produce more efficient components, further fueling the wind turbine generator market growth across the Middle East & Africa.

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

## Middle East & Africa Wind Turbine Generator Market Segmentation

The Middle East & Africa wind turbine generator market is segmented based on type, deployment type, and country.

Based on type, the Middle East & Africa wind turbine generator market is bifurcated into direct current and AC synchronous. The AC synchronous segment held a larger Middle East & Africa wind turbine generator market share in 2022.

In terms of deployment type, the Middle East & Africa wind turbine generator market is bifurcated into onshore and offshore. The onshore segment held a larger Middle East & Africa wind turbine generator market share in 2022.

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

Envision Energy USA Ltd, Mingyang Smart Energy Group Co, Nordex SE, Siemens Gamesa Renewable Energy SA, Xinjiang Goldwind Science & Technology Co Ltd, Vestas Wind Systems AS, General Electric Co, Suzlon Energy Ltd, and ENERCON GmbH are some of the leading companies operating in the Middle East & Africa wind turbine generator 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 GENERATOR MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Ecosystem Analysis

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

- 5.1 Middle East & Africa Wind Turbine Generator Market - Key Industry Dynamics
- 5.2 Market Drivers
  - 5.2.1 Increasing Product Launches
  - 5.2.2 Rising Wind Farms
- 5.3 Market Restraints
  - 5.3.1 Dependence on Chinese Wind Turbine Component Manufacturers
- 5.4 Market Opportunities
  - 5.4.1 Government Initiatives to Promote Wind Energy
- 5.5 Future Trends
  - 5.5.1 Rising Demand for Floating Wind Technology
- 5.6 Impact of Drivers and Restraints:

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

## **ANALYSIS**

6.1 Middle East & Africa Wind Turbine Generator Market Revenue (US\$ Million), 2020 - 2030

6.2 Middle East & Africa Wind Turbine Generator Market Forecast and Analysis

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

7.1 Overview

7.1.1 Middle East & Africa Wind Turbine Generator Market, By Type (2022 and 2030)

7.2 Direct Current

7.2.1 Overview

7.2.2 Direct Current: Middle East & Africa Wind Turbine Generator Market Revenue and Forecast to 2030 (US\$ Million)

7.3 AC Synchronous

7.3.1 Overview

7.3.2 AC Synchronous: Middle East & Africa Wind Turbine Generator Market, Revenue and Forecast to 2030 (US\$ Million)

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

8.1 Overview

8.1.1 Middle East & Africa Wind Turbine Generator Market, By Deployment Type (2022 and 2030)

8.2 Onshore

8.2.1 Overview

8.2.2 Onshore: Middle East & Africa Wind Turbine Generator Market Revenue and Forecast to 2030 (US\$ Million)

8.3 Offshore

8.3.1 Overview

8.3.2 Offshore: Middle East & Africa Wind Turbine Generator Market, Revenue and Forecast to 2030 (US\$ Million)

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

9.1 Middle East and Africa

### 9.1.1 Middle East and Africa Wind Turbine Generator Market Revenue and Forecasts and Analysis - By Country

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

##### 9.1.1.1.1 South Africa Wind Turbine Generator Market Breakdown by Type

##### 9.1.1.1.2 South Africa Wind Turbine Generator Market Breakdown by Deployment Type

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

##### 9.1.1.2.1 Saudi Arabia Wind Turbine Generator Market Breakdown by Type

##### 9.1.1.2.2 Saudi Arabia Wind Turbine Generator Market Breakdown by Deployment Type

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

##### 9.1.1.3.1 Egypt Wind Turbine Generator Market Breakdown by Type

##### 9.1.1.3.2 Egypt Wind Turbine Generator Market Breakdown by Deployment Type

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

##### 9.1.1.4.1 Rest of MEA Wind Turbine Generator Market Breakdown by Type

##### 9.1.1.4.2 Rest of MEA Wind Turbine Generator Market Breakdown by Deployment Type

## 10. INDUSTRY LANDSCAPE

### 10.1 Overview

### 10.2 Market Initiative

### 10.3 New Product Development

### 10.4 Merger and Acquisition

## 11. COMPANY PROFILES

### 11.1 Envision Energy USA Ltd

#### 11.1.1 Key Facts

#### 11.1.2 Business Description

#### 11.1.3 Products and Services

#### 11.1.4 Financial Overview

#### 11.1.5 SWOT Analysis

#### 11.1.6 Key Developments

### 11.2 Mingyang Smart Energy Group Co

- 11.2.1 Key Facts
- 11.2.2 Business Description
- 11.2.3 Products and Services
- 11.2.4 Financial Overview
- 11.2.5 SWOT Analysis
- 11.2.6 Key Developments
- 11.3 Nordex SE
  - 11.3.1 Key Facts
  - 11.3.2 Business Description
  - 11.3.3 Products and Services
  - 11.3.4 Financial Overview
  - 11.3.5 SWOT Analysis
  - 11.3.6 Key Developments
- 11.4 Siemens Gamesa Renewable Energy SA
  - 11.4.1 Key Facts
  - 11.4.2 Business Description
  - 11.4.3 Products and Services
  - 11.4.4 Financial Overview
  - 11.4.5 SWOT Analysis
  - 11.4.6 Key Developments
- 11.5 Xinjiang Goldwind Science & Technology Co Ltd
  - 11.5.1 Key Facts
  - 11.5.2 Business Description
  - 11.5.3 Products and Services
  - 11.5.4 Financial Overview
  - 11.5.5 SWOT Analysis
  - 11.5.6 Key Developments
- 11.6 Vestas Wind Systems AS
  - 11.6.1 Key Facts
  - 11.6.2 Business Description
  - 11.6.3 Products and Services
  - 11.6.4 Financial Overview
  - 11.6.5 SWOT Analysis
  - 11.6.6 Key Developments
- 11.7 General Electric Co
  - 11.7.1 Key Facts
  - 11.7.2 Business Description
  - 11.7.3 Products and Services
  - 11.7.4 Financial Overview

- 11.7.5 SWOT Analysis
- 11.7.6 Key Developments
- 11.8 Suzlon Energy Ltd
  - 11.8.1 Key Facts
  - 11.8.2 Business Description
  - 11.8.3 Products and Services
  - 11.8.4 Financial Overview
  - 11.8.5 SWOT Analysis
  - 11.8.6 Key Developments
- 11.9 ENERCON GmbH
  - 11.9.1 Key Facts
  - 11.9.2 Business Description
  - 11.9.3 Products and Services
  - 11.9.4 Financial Overview
  - 11.9.5 SWOT Analysis
  - 11.9.6 Key Developments

## **12. APPENDIX**

- 12.1 About The Insight Partners



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