

Wind Energy Market by Type (Offshore and Onshore) and End-User (Industrial, Commercial, and Residential): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global wind energy market was valued at \$62.1 billion in 2019, and is projected to reach \$127.2 billion by 2027, growing at a CAGR of 9.3% from 2020 to 2027.

Wind energy is a renewable energy source, which is solely dependent on wind power. The hydrogen energy is stored in three forms, which include liquid, solid, and gaseous. In wind turbine, the wind energy is converted into electric energy through generator. Based on type, wind energy can be classified into offshore and onshore type. Some major applications of wind energy includes wind pumps, wind electricity generators, and wind battery charges.

Proliferating demand for renewable power source and growing concern from government regarding decarbonization are anticipated to drive the market growth. Power generation through floating wind turbine can significantly reduce carbon emission unlike conventional power sources. Furthermore, offshore wind turbine removes the water depth constraint while choosing site for wind power plant. Moreover, average wind speed is higher and more consistent at shore, which further improves capacity factor of wind turbine. Furthermore, wind turbines create more opportunities in the value chain, such as maintenance, repair, and installation, which can further improve economic activities, supporting job growth in ports. However, wind energy requires high capital cost, and it may face severe damage during heavy storms or hurricanes, which may further increase overall operational cost of wind turbine plants.

The global wind energy market is segmented on the basis of type, end-user, and region.



Based on type, it is segmented into offshore and onshore. Based on end-user, the market is classified into industrial, commercial, and residential. Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Major players have adopted acquisition, agreements, and partnership to sustain the intense market competition. Some of the key players profiled in the report include Siemens General Electric, Enercon GmbH, Vestas Wind Systems A/S, Exelon Corporation (EXC), NextEra Energy, Inc., American Electric Power Company, Inc., Xcel Energy Inc., Avangrid, Inc., and Ameren Corporation.

COVID-19 scenario analysis

The COVID-19 pandemic severely impacted the wind turbine manufacturing in countries such as China and Germany. For instance, Germany's Nordex SE reported negative EBITDA of \$86.5 million down from positive EBITDA \$21 million in previous.

Additionally, limited availability of spares and manpower for maintenance is a major problem affecting the market growth. During high wind season, planned maintenance became a major issue for industry players, owing to reduced labor force and social distancing norms.

Furthermore, project delays and cancellation of orders further affected the key markets for both blade production and wind turbine installations. For instance, Siemens Gamesa Renewable Energy SA accounted for a net loss of \$577 million during its fiscal third quarter in 2020.

However, shifting trend toward domestic supply chain may reduce the reliance on foreign imports encouraging domestic production of wind turbines. Furthermore, implementation of digitization will aid in remote monitoring for project execution; thus, limiting the labor force as much as possible.

Key benefits for stakeholders

The global wind energy market analysis covers in-depth information of major industry participants.



Porter's five forces analysis helps analyze the potential of buyers & suppliers and the competitive scenario of the industry for strategy building.

> Major countries have been mapped according to their individual revenue contribution to the regional market.

The report provides in-depth analysis of the global wind energy market forecast for the period 2020–2027.

The report outlines the current global wind energy market trends and future estimations of the market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The key drivers, restraints, & market opportunity and their detailed impact analysis are explained in the study.

Key market segments				
ا	Ву Туре			
(Offshore			
(Onshore			
1	By End-User			
	Industrial			
	Commercial			
ا	Residential			
1	By Region			



North America		
	U.S.	
	Canada	
	Mexico	
Europ	e	
	UK	
	Germany	
	France	
	Italy	
	Rest of Europe	
Asia-P	Pacific	
	China	
	Japan	
	India	
	South Korea	
	Rest of Asia-Pacific	
LAME	A	
	Brazil	
	Saudi Arabia	
	South Africa	



Rest of LAMEA



Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2. Key benefits for stakeholders
- 1.3. Key market segments
- 1.4.Research methodology
 - 1.4.1.Primary research
 - 1.4.2.Secondary research
- 1.4.3. Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1. Key findings of the study
- 2.2.CXO perspective

CHAPTER 3:MARKET LANDSCAPE

- 3.1. Market definition and scope
- 3.2.Key findings
 - 3.2.1.Top investment pockets
- 3.3. Porter's five forces analysis
- 3.4. Market share analysis & top player positioning, 2019
 - 3.4.1.Top player positioning, 2019
- 3.5. Market dynamics
 - 3.5.1.Drivers
 - 3.5.1.1. Surge in demand for renewable power sources
 - 3.5.1.2. Higher efficiency than that of fossile enery sources
 - 3.5.1.3. Environment friendly and reduced carbon emission
 - 3.5.2.Restraint
 - 3.5.2.1. High installation and maintenance cost of offshore wind plants
 - 3.5.3. Opportunity
 - 3.5.3.1. Advancements in wind turbine structure
- 3.6.Impact of Covid-19 Outburst on wind energy market
- 3.7. Patent Analysis
 - 3.7.1.By Region (2014-2019)

CHAPTER 4:WIND ENERGY MARKET, BY TYPE



- 4.1.Overview
 - 4.1.1.Market size and forecast
- 4.2.Offshore
 - 4.2.1. Key market trends, growth factors, and opportunities
 - 4.2.2.Market size and forecast, by region
- 4.3.Onshore
- 4.3.1. Key market trends, growth factors, and opportunities
- 4.3.2.Market size and forecast, by region

CHAPTER 5:WIND ENERGY MARKET, BY END-USER

- 5.1.Overview
 - 5.1.1.Market size and forecast
- 5.2.Industrial
 - 5.2.1. Key market trends, growth factors, and opportunities
 - 5.2.2. Market size and forecast, by region
- 5.3.Commercial
 - 5.3.1. Key market trends, growth factors, and opportunities
 - 5.3.2.Market size and forecast, by region
- 5.4.Residential
 - 5.4.1. Key market trends, growth factors, and opportunities
 - 5.4.2. Market size and forecast, by region

CHAPTER 6:WIND ENERGY MARKET, BY REGION

- 6.1. Overview
 - 6.1.1.Market size and forecast
- 6.2. North America
- 6.2.1. Key market trends, growth factors, and opportunities 806.2.2. Market size and forecast, by type
 - 6.2.3. Market size and forecast, by End-User
 - 6.2.4. Market share analysis, by country
 - 6.2.4.1.U.S.
 - 6.2.4.1.1. Market size and forecast, by type
 - 6.2.4.1.2.Market size and forecast, by End-User
 - 6.2.4.2.Canada
 - 6.2.4.2.1. Market size and forecast, by type
 - 6.2.4.2.2.Market size and forecast, by End-User



6.2.4.3.Mexico

- 6.2.4.3.1. Market size and forecast, by type
- 6.2.4.3.2. Market size and forecast, by End-User

6.3. Europe

- 6.3.1. Key market trends, growth factors, and opportunities
- 6.3.2. Market size and forecast, by type1
- 6.3.3. Market size and forecast, by End-User
- 6.3.4. Market share analysis, by country 104
 - 6.3.4.1.Germany
 - 6.3.4.1.1.Market size and forecast, by type
 - 6.3.4.1.2. Market size and forecast, by End-User
 - 6.3.4.2.UK
 - 6.3.4.2.1. Market size and forecast, by type
 - 6.3.4.2.2.Market size and forecast, by End-User
 - 6.3.4.3.France
 - 6.3.4.3.1. Market size and forecast, by type
 - 6.3.4.3.2. Market size and forecast, by End-User
 - 6.3.4.4.Spain
 - 6.3.4.4.1. Market size and forecast, by type
 - 6.3.4.4.2. Market size and forecast, by End-Use
 - 6.3.4.5.Italy
 - 6.3.4.5.1. Market size and forecast, by type
 - 6.3.4.5.2. Market size and forecast, by End-User
 - 6.3.4.6.Rest of Europe
 - 6.3.4.6.1. Market size and forecast, by type
 - 6.3.4.6.2. Market size and forecast, by End-User

6.4. Asia-Pacific

- 6.4.1. Key market trends, growth factors, and opportunities
- 6.4.2. Market size and forecast, by type
- 6.4.3. Market size and forecast, by End-User
- 6.4.4. Market share analysis, by country
 - 6.4.4.1.China
 - 6.4.4.1.1. Market size and forecast, by type
 - 6.4.4.1.2. Market size and forecast, by End-User
 - 6.4.4.2.India
 - 6.4.4.2.1. Market size and forecast, by type
 - 6.4.4.2.2. Market size and forecast, by End-User
 - 6.4.4.3.Japan
 - 6.4.4.3.1. Market size and forecast, by type



- 6.4.4.3.2. Market size and forecast, by End-User
- 6.4.4.4.South Korea
 - 6.4.4.4.1. Market size and forecast, by type
 - 6.4.4.4.2.Market size and forecast, by End-User
- 6.4.4.5. Australia
 - 6.4.4.5.1. Market size and forecast, by type
 - 6.4.4.5.2. Market size and forecast, by End-User
- 6.4.4.6.Rest of Asia-Pacific
 - 6.4.4.6.1. Market size and forecast, by type
 - 6.4.4.6.2. Market size and forecast, by End-User

6.5.LAMEA

- 6.5.1. Key market trends, growth factors, and opportunities
- 6.5.2. Market size and forecast, by type
- 6.5.3. Market size and forecast, by End-User
- 6.5.4. Market share analysis, by country
 - 6.5.4.1.Brazil
 - 6.5.4.1.1. Market size and forecast, by type
 - 6.5.4.1.2. Market size and forecast, by End-User
 - 6.5.4.2.Saudi Arabia
 - 6.5.4.2.1. Market size and forecast, by type
 - 6.5.4.2.2.Market size and forecast, by End-User
 - 6.5.4.3. South Africa
 - 6.5.4.3.1. Market size and forecast, by type
 - 6.5.4.3.2. Market size and forecast, by End-User
 - 6.5.4.4.Rest of LAMEA
 - 6.5.4.4.1. Market size and forecast, by type
 - 6.5.4.4.2. Market size and forecast, by End-User

CHAPTER 7:COMPETITIVE LANDSCAPE

- 7.1.Introduction
- 7.2. Product mapping of top 10 players
- 7.3.Competitive heatmap
- 7.4. Key development
 - 7.4.1.New Product
 - 7.4.2. Business Partnership
 - 7.4.3.Agreement1

CHAPTER 8:COMPANY PROFILES



- 8.1. Ameren Corporation
 - 8.1.1.Company overview
 - 8.1.2.Company Snapshot
 - 8.1.3. Operating business segments
 - 8.1.4.Product Portfolio
 - 8.1.5. Business performance
 - 8.1.6. Key strategic moves and developments
- 8.2. American Electric Power Company, Inc.
 - 8.2.1.Company overview
 - 8.2.2.Company Snapshot
 - 8.2.3. Operating business segments
 - 8.2.4. Product portfolio
 - 8.2.5. Business performance
 - 8.2.6. Key strategic moves and developments
- 8.3. Avangrid, Inc.
 - 8.3.1.Company overview
 - 8.3.2.Company snapshot
 - 8.3.3. Operating business segments
 - 8.3.4. Product Portfolio
- 8.4.ENERCON GMBH
 - 8.4.1.Company overview
 - 8.4.2.Company snapshot
 - 8.4.3. Operating business segments
 - 8.4.4. Product Portfolio
 - 8.4.5. Business performance
 - 8.4.6. Key strategic moves and developments
- 8.5. Exelon Corporation (EXC)
 - 8.5.1.Company overview
 - 8.5.2.Company snapshot
 - 8.5.3. Operating business segments
 - 8.5.4. Product Portfolio
 - 8.5.5.Business performance
 - 8.5.6. Key strategic moves and development
- 8.6. General Electric Company
 - 8.6.1.Company overview
 - 8.6.2.Company snapshot
 - 8.6.3. Operating business segments
 - 8.6.4. Product Portfolio



- 8.6.5. Business performance
- 8.7.NextEra Energy, Inc.
 - 8.7.1.Company overview
 - 8.7.2.Company snapshot
 - 8.7.3. Operating business segments
 - 8.7.4. Product portfolio
 - 8.7.5. Business performance
 - 8.7.6. Key strategic moves and developments
- 8.8. Vestas Wind Systems
 - 8.8.1.Company overview
 - 8.8.2.Company snapshot
 - 8.8.3. Operating business segments
 - 8.8.4. Product Portfolio
 - 8.8.5. Key strategic moves and developments
- 8.9.Xcel Energy Inc.
 - 8.9.1.Company overview
 - 8.9.2.Company snapshot
 - 8.9.3. Operating business segments
 - 8.9.4. Product portfolio
 - 8.9.5. Business performance
- 8.10.SIEMENS
 - 8.10.1.Company overview
 - 8.10.2.Company snapshot
 - 8.10.3. Operating business segments
 - 8.10.4. Product portfolio
 - 8.10.5. Business performance



List Of Tables

LIST OF TABLES

TABLE 01.WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 02.WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 03.WIND ENERGY MARKET FOR OFFSHORE, BY REGION, 2019–2027 (MW)

TABLE 04.WIND ENERGY MARKET FOR OFFSHORE, BY REGION, 2019–2027 (\$MILLION)

TABLE 05.WIND ENERGY MARKET FOR ONSHORE, BY REGION, 2019–2027 (MW) TABLE 06.WIND ENERGY MARKET FOR ONSHORE, BY REGION, 2019–2027 (\$MILLION)

TABLE 07.WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 08.WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 09.WIND ENERGY MARKET FOR INDUSTRIAL, BY REGION, 2019–2027 (MW)

TABLE 10.WIND ENERGY MARKET FOR INDUSTRIAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 11.WIND ENERGY MARKET FOR COMMERCIAL, BY REGION, 2019–2027 (MW)

TABLE 12.WIND ENERGY MARKET FOR COMMERCIAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 13.WIND ENERGY MARKET FOR RESIDENTIAL, BY REGION, 2019–2027 (MW)

TABLE 14.WIND ENERGY MARKET FOR RESIDENTIAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 15.WIND ENERGY MARKET, BY REGION, 2020-2027 (MW)

TABLE 16.WIND ENERGY MARKET, BY REGION, 2020-2027 (\$MILLION)

TABLE 17.NORTH AMERICA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 18.NORTH AMERICA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 19.NORTH AMERICA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 20.NORTH AMERICA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 21.NORTH AMERICA WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (MW)

TABLE 22.NORTH AMERICA WIND ENERGY MARKET, BY COUNTRY, 2019–2027



(\$MILLION)

TABLE 23.U.S. WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 24.U.S. WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 25.U.S. WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 26.U.S. WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 27. CANADA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 28.CANADA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 29.CANADA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 30.CANADA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 31.MEXICO WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 32.MEXICO WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 33.MEXICO WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 34.MEXICO WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 35.EUROPE WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 36.EUROPE WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 37.EUROPE WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 38.EUROPE WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 39.EUROPE WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (MW)

TABLE 40.EUROPE WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (\$MILLION)

TABLE 41.GERMANY WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 42.GERMANY WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 43.GERMANY WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 44.GERMANY WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 45.UK WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 46.UK WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 47.UK WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 48.UK WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 49.FRANCE WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 50.FRANCE WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 51.FRANCE WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 52.FRANCE WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 53.SPAIN WIND ENERGY MARKET, BY TYPE, 2019-2027 (MW)

TABLE 54.SPAIN WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)



TABLE 55.SPAIN WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 56.SPAIN WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 57.ITALY WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 58.ITALY WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 59.ITALY WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 60.ITALY WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 61.REST OF EUROPE WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 62.REST OF EUROPE WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 63.REST OF EUROPE WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 64.REST OF EUROPE WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 65.ASIA-PACIFIC WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW) TABLE 66.ASIA-PACIFIC WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 67.ASIA-PACIFIC WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW) TABLE 68.ASIA-PACIFIC WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 69.ASIA-PACIFIC WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (MW) TABLE 70.ASIA-PACIFIC WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (\$MILLION)

TABLE 71.CHINA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 72.CHINA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 73.CHINA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 74.CHINA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 75.INDIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 76.INDIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 77.INDIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 78.INDIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 79.JAPAN WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 80.JAPAN WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 81.JAPAN WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 82.JAPAN WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 83.SOUTH KOREA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 84.SOUTH KOREA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 85.SOUTH KOREA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)



TABLE 86.SOUTH KOREA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 87.AUSTRALIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)
TABLE 88.AUSTRALIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)
TABLE 89.AUSTRALIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)
TABLE 90.AUSTRALIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 91.REST OF ASIA-PACIFIC WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 92.REST OF ASIA-PACIFIC WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 93.REST OF ASIA-PACIFIC WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 94.REST OF ASIA-PACIFIC WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 95.LAMEA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 96.LAMEA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 97.LAMEA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 98.LAMEA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 99.LAMEA WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (MW)

TABLE 100.LAMEA WIND ENERGY MARKET, BY COUNTRY, 2019–2027 (\$MILLION)

TABLE 101.BRAZIL WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW)

TABLE 102.BRAZIL WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 103.BRAZIL WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 104.BRAZIL WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 105.SAUDI ARABIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW) TABLE 106.SAUDI ARABIA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 107.SAUDI ARABIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 108.SAUDI ARABIA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 109.SOUTH AFRICA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW) TABLE 110.SOUTH AFRICA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 111.SOUTH AFRICA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 112.SOUTH AFRICA WIND ENERGY MARKET, BY END-USER, 2019–2027



(\$MILLION)

TABLE 113.REST OF LAMEA WIND ENERGY MARKET, BY TYPE, 2019–2027 (MW) TABLE 114.REST OF LAMEA WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILLION)

TABLE 115.REST OF LAMEA WIND ENERGY MARKET, BY END-USER, 2019–2027 (MW)

TABLE 116.REST OF LAMEA WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILLION)

TABLE 117.KEY NEW PRODUCT

TABLE 118.KEY PARTNERSHIP

TABLE 119.KEY AGREEMENT

TABLE 120.AMEREN CORPORATION: COMPANY SNAPSHOT

TABLE 121.AMEREN CORPORATION: OPERATING SEGMENTS

TABLE 122.AMEREN CORPORATION: PRODUCT PORTFOLIO

TABLE 123.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 124.AMEREN CORPORATION: KEY STRATEGIC MOVES AND

DEVELOPMENTS

TABLE 125.AMERICAN ELECTRIC POWER COMPANY, INC.: COMPANY SNAPSHOT

TABLE 126.AMERICAN ELECTRIC POWER COMPANY, INC.: OPERATING SEGMENTS

TABLE 127.AMERICAN ELECTRIC POWER COMPANY, INC.: PRODUCT PORTFOLIO

TABLE 128.AMERICAN ELECTRIC POWER COMPANY, INC.: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 129.AVANGRID, INC.: COMPANY SNAPSHOT

TABLE 130.AVANGRID, INC.: OPERATING SEGMENTS

TABLE 131.AVANGRID, INC.: PRODUCT PORTFOLIO

TABLE 132.ENERCON GMBH: COMPANY SNAPSHOT

TABLE 133.ENERCON GMBH: OPERATING SEGMENTS

TABLE 134.ENERCON GMBH: PRODUCT PORTFOLIO

TABLE 135.ENERCON GMBH: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 136.EXELON CORPORATION (EXC): COMPANY SNAPSHOT

TABLE 137.EXELON CORPORATION (EXC): OPERATING SEGMENTS

TABLE 138.EXELON CORPORATION (EXC): PRODUCT PORTFOLIO

TABLE 139.EXELON CORPORATION (EXC) GROUP: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 140.GENERAL ELECTRIC COMPANY: COMPANY SNAPSHOT TABLE 141.GENERAL ELECTRIC COMPANY: OPERATING SEGMENTS



TABLE 142.GENERAL ELECTRIC COMPANY: PRODUCT PORTFOLIO

TABLE 143.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 144.NEXTERA ENERGY, INC.: COMPANY SNAPSHOT

TABLE 145.NEXTERA ENERGY, INC.: OPERATING SEGMENT

TABLE 146.NEXTERA ENERGY, INC.: PRODUCT PORTFOLIO

TABLE 147.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 148.NEXTERA ENERGY, INC.: KEY STRATEGIC MOVES AND

DEVELOPMENTS

TABLE 149. VESTAS WIND SYSTEMS A/S: COMPANY SNAPSHOT

TABLE 150. VESTAS WIND SYSTEMS A/S: OPERATING SEGMENTS

TABLE 151. VESTAS WIND SYSTEMS A/S: PRODUCT PORTFOLIO

TABLE 152. VESTAS WIND SYSTEMS A/S: KEY STRATEGIC MOVES AND

DEVELOPMENTS

TABLE 153.XCEL ENERGY INC.: COMPANY SNAPSHOT

TABLE 154.XCEL ENERGY INC.: OPERATING SEGMENTS

TABLE 155.XCEL ENERGY INC.: PRODUCT PORTFOLIO

TABLE 156.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 157. SIEMENS: COMPANY SNAPSHOT

TABLE 158. SIEMENS: OPERATING SEGMENTS

TABLE 159. SIEMENS: PRODUCT PORTFOLIO

TABLE 160.OVERALL FINANCIAL STATUS (\$MILLION)



List Of Figures

LIST OF FIGURES

FIGURE 01.KEY MARKET SEGMENTS

FIGURE 02.EXECUTIVE SUMMARY, BY SEGMENT

FIGURE 03.EXECUTIVE SUMMARY, BY COUNTRY

FIGURE 04.TOP INVESTMENT POCKETS

FIGURE 05.MODERATE BARGAINING POWER OF SUPPLIERS

FIGURE 06.MODERATE THREAT OF NEW ENTRANTS

FIGURE 07.MODERATE THREAT OF SUBSTITUTES

FIGURE 08.MODERATE INTENSITY OF RIVALRY

FIGURE 09.LOW BARGAINING POWER OF BUYERS

FIGURE 10.TOP PLAYER POSITIONING, 2019

FIGURE 11. WIND ENERGY MARKET DYNAMICS

FIGURE 12.PATENT ANALYSIS, BY REGION

FIGURE 13.WIND ENERGY MARKET, BY TYPE, 2019–2027 (\$MILILION)

FIGURE 14.OFFSHORE MARKET, BY COUNTRY, 2019–2027 (\$MILILION)

FIGURE 15.ONSHORE MARKET, BY COUNTRY, 2019–2027 (\$MILILION)

FIGURE 16.WIND ENERGY MARKET, BY END-USER, 2019–2027 (\$MILILION)

FIGURE 17.WIND ENERGY MARKET FOR INDUSTRIAL, BY COUNTRY, 2019–2027 (\$MILILION)

FIGURE 18.WIND ENERGY MARKET FOR COMMERCIAL, BY COUNTRY,

2019-2027 (\$MILILION)

FIGURE 19.WIND ENERGY MARKET FOR RESIDENTIAL, BY COUNTRY, 2019–2027 (\$MILILION)

FIGURE 20.U.S. WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 21.CANADA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 22.MEXICO WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 23.GERMANY WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 24.UK WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 25.FRANCE WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 26.SPAIN WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 27.ITALY WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 28.REST OF EUROPE WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)130

FIGURE 29.CHINA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)142

FIGURE 30.INDIA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)147

FIGURE 31.JAPAN WIND ENERGY MARKET REVENUE, 2019-2027 (\$MILLION)152



FIGURE 32.SOUTH KOREA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 33.AUSTRALIA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 34.REST OF ASIA-PACIFIC WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 35.BRAZIL WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION) FIGURE 36.SAUDI ARABIA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 37.SOUTH AFRICA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 38.REST OF LAMEA WIND ENERGY MARKET REVENUE, 2019–2027 (\$MILLION)

FIGURE 39.PRODUCT MAPPING OF TOP 10 PLAYERS

FIGURE 40.COMPETITIVE HEATMAP

FIGURE 41.AMEREN CORPORATION: REVENUE, 2017–2019 (\$MILLION)

FIGURE 42.GENERAL ELECTRIC COMPANY: REVENUE, 2017–2019 (\$MILLION)

FIGURE 43.GENERAL ELECTRIC COMPANY REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 44.GENERAL ELECTRIC COMPANY REVENUE SHARE BY REGION, 2019 (%)

FIGURE 45.NEXTERA ENERGY, INC.: REVENUE, 2017–2019 (\$MILLION)

FIGURE 46.NEXTERA ENERGY, INC. REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 47.NEXTERA ENERGY, INC. REVENUE SHARE BY REGION, 2019 (%)

FIGURE 48.XCEL ENERGY INC.: REVENUE, 2017–2019 (\$MILLION)

FIGURE 49.SIEMENS: REVENUE, 2017–2019 (\$MILLION)

FIGURE 50. SIEMENS REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 51. SIEMENS REVENUE SHARE BY REGION, 2019 (%)



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