

# Regional Benchmarking for Wind Energy Market 2010: China, US, Germany, and India

<https://marketpublishers.com/r/R0B3376FC57EN.html>

Date: May 2011

Pages: 209

Price: US\$ 4,850.00 (Single User License)

ID: R0B3376FC57EN

## Abstracts

### Background:

The market for wind energy has registered remarkable growth in the last few years and is expected to grow significantly in the wake of growing interest in developing and harnessing alternatives to traditional fossil fuels; however, Investment in wind energy calls for proper analysis as wind energy costs are approximately twice that of conventional sources of energy.

Four nations—Germany, the US, China and India—have been taken into consideration to analyze the overall wind energy market. This report identifies factors contributing to the competitive advantages of the wind energy sector and measures the attractiveness of those factors for each of the four nations. It provides market intelligence to support both short- and long-term strategic decision-making.

As per the study, the top five countries in the worldwide wind energy market are China, the US, Germany, Spain, and India with market shares of approximately 23%, 20%, 14%, 11%, and 7% respectively, representing approximately 75% of the total cumulative wind energy market at the end of 2010. In 2010 China surpassed the US in terms of cumulative wind energy capacity installed. The US and China are expected to grow considerably in the next five years and beyond.

Lucintel's research report provides insights regarding entry and expansion plans to wind farm investors, wind turbine OEMs, and component manufacturers. The report details the industry's life cycle, market trend and forecast, drivers, and challenges. Lucintel's findings are detailed through cluster analysis, international competitive benchmarking, and discussions of growth scenarios for the nations covered. This report

will greatly support OEMs, component suppliers, and investors in the decision-making process as it pertains to wind energy.

This unique report from Lucintel will provide you with valuable information, insights and tools needed to identify new growth opportunities and operate your business successfully in this market. This report will save hundreds of hours of your own personal research time and will significantly benefit you in expanding your business in this market. In today's stringent economy, you need every advantage that you can find to keep ahead in your business

### **Features of This Report:**

To make business, investment, or strategic decisions, you need timely and adequate information. This market report fulfills this core need and is an indispensable reference guide for multi-national material suppliers, product manufacturers, investors, executives, distributors and many more, who are dealing with this market. Some of the features of this market report are:

Trends and forecasts for wind energy capacity installation for all the four nation

Drivers and challenges for wind energy sector for the four nations

PESTEL analysis for each of the four nations to make the investors aware of the environment prevailing around wind energy sector in these countries

A representation for Industry life cycles for wind energy industry of the four countries

Porter's Five Forces model for wind energy industry of each of the four nations

Analysis of competitive advantages of the four nations for the development of wind energy sector by Porter's diamond model

Supply chain analysis for each of the four nations

Cluster analysis to determine the overall strength of the wind energy industry in each of the four nations

Growth leadership quadrant for analyzing global leadership in wind energy

sector

## Contents

### **CHAPTER 1: EXECUTIVE SUMMARY**

### **CHAPTER 2: WIND ENERGY MARKET ASSESSMENT FOR CHINA, US, GERMANY AND INDIA**

- 2.1: Regional wind energy market analysis
  - 2.1.1: Chinese wind energy supply potential and market demand analysis
  - 2.1.2: US wind energy supply potential and market demand analysis
  - 2.1.3: German wind energy supply potential and market demand analysis
  - 2.1.4: Indian wind energy supply potential and market demand analysis
- 2.2: PESTLE analysis for wind energy market
  - 2.2.1: PESTLE analysis of Chinese wind energy market
  - 2.2.2: PESTLE analysis of US wind energy market
  - 2.2.3: PESTLE analysis of German wind energy market
  - 2.2.4: PESTLE analysis of Indian wind energy market
- 2.3: Porter's Five Forces comparative analysis
  - 2.3.1: Porter's Five Forces Model for Chinese wind energy market
  - 2.3.2: Porter's Five Forces Model for US wind energy market
  - 2.3.3: Porter's Five Forces Model for German wind energy market
  - 2.3.4: Porter's Five Forces Model for Indian wind energy market

### **CHAPTER 3: REGIONAL BENCHMARKING OF WIND ENERGY INDUSTRY FOR CHINA, US, GERMANY AND INDIA**

- 3.1: Economy benchmarking
  - 3.1.1: Macro-economy benchmarking
  - 3.1.2: Micro-economy benchmarking
- 3.2: Comparative analysis of Industry life cycles
- 3.3: Supply chain dynamics of wind energy market
  - 3.3.1: Supply chain framework
  - 3.3.2: Regional supply chain analysis
    - 3.3.2.1: Chinese wind energy market supply chain
    - 3.3.2.2: US wind energy market supply chain
    - 3.3.2.3: German wind energy market supply chain
    - 3.3.2.4: Indian wind energy market supply chain
  - 3.3.3: Supply chain cluster analysis
- 3.4: Cluster analysis of regional wind energy industry

- 3.4.1: Geographical cluster mapping
  - 3.4.1.1: Chinese wind energy industry cluster
  - 3.4.1.2: US wind energy industry cluster
  - 3.4.1.3: German wind energy industry cluster
  - 3.4.1.4: Indian wind energy industry cluster
- 3.4.2: Cluster benchmarking

## **CHAPTER 4: TRENDS AND FORECASTS IN WIND ENERGY MARKET OF CHINA, US, GERMANY & INDIA**

- 4.1: Trends of wind energy capacity installed
- 4.2: Trends of evolution in the size of wind turbines
- 4.3: Forecasts of wind energy capacity installation
- 4.4: Drivers and challenges
  - 4.4.1: Drivers and challenges for Chinese wind energy market
  - 4.4.2: Drivers and challenges for US Wind energy market
  - 4.4.3: Drivers and challenges for German wind energy market
  - 4.4.4: Drivers and challenges for Indian wind energy market

## **CHAPTER 5: INTERNATIONAL COMPETITIVE BENCHMARKING FOR WIND ENERGY INDUSTRY**

- 5.1: Porter's Diamond Model Analysis for countries' competitiveness benchmarking
  - 5.1.1: Factors input conditions for wind energy industry
  - 5.1.2: Demand conditions for wind energy industry
  - 5.1.3: Strategy, structure and rivalry for wind energy industry
  - 5.1.4: Related and supporting industries for wind energy industry
  - 5.1.5: Government interference for wind energy industry
- 5.2: Key success factors for wind energy market
  - 5.2.1: Manufacturing capability
  - 5.2.2: Market trend
  - 5.2.3: Government policy and support
  - 5.2.4: Foreign investment
  - 5.2.4: Returns
- 5.3: ETOP analysis
- 5.4: Profitability analysis
  - 5.4.1: Costs analysis
  - 5.4.2: Cost-return analysis

## **CHAPTER 6: GROWTH ATTRACTIVENESS ANALYSIS OF WIND ENERGY INDUSTRY FOR CHINA, US,**

Germany and India

6.1: Growth Potential Analysis

6.2: Growth Leadership Analysis

6.3: Growth Matrix

## **CHAPTER 7: CONCLUSION**

## List Of Figures

### LIST OF FIGURES

#### Chapter 1 Executive Summary

Figure 1.1: Electricity consumption per annum (2005 – 2010)

Figure 1.2: GDP per annum (2005 – 2010)

Figure 1.3: Carbon dioxide emission per annum (2005 – 2010)

Figure 1.4: Comparative outcome of Porter's Five Forces

Figure 1.5: Regional benchmarking of wind energy industry by diamond model analysis

#### Chapter 2: Wind Energy Market Assessment for China, US, Germany and India

Figure 2.1: Cumulative capacity installed in China (2005 – 2010)

Figure 2.2: Annual market share of wind turbine manufacturers in China – 2010

Figure 2.3: Cumulative capacity installed in US (2005 – 2010)

Figure 2.4: Annual market share of wind turbine manufacturers in US - 2010

Figure 2.5: Cumulative capacity installed in Germany (2005 – 2010)

Figure 2.6: Annual market share of wind turbine manufacturers in Germany – 2010

Figure 2.7: Cumulative capacity installed in India (2005 – 2010)

Figure 2.8: Annual market share of wind turbine manufacturers in India – 2010

Figure 2.9: PESTLE analysis for Chinese wind energy industry

Figure 2.10: PESTLE analysis for US wind energy industry

Figure 2.11: PESTLE analysis for German wind energy industry

Figure 2.12: PESTLE analysis for Indian wind energy industry

Figure 2.13: Porter's Five Forces Model for the wind energy industry

Figure 2.14: Porter's Five Forces Model for Chinese wind energy industry

Figure 2.15: Porter's Five Forces Model for US wind energy industry

Figure 2.16: Porter's Five Forces Model for German wind energy industry

Figure 2.17: Porter's Five Forces Model for Indian wind energy industry

#### Chapter 3: Regional Benchmarking of Wind Energy Industry for China, US, Germany and India

Figure 3.1: Trend of GDP in each country (2005 - 2010)

Figure 3.2: Trend of foreign direct investment in each country (2005 - 2010)

Figure 3.3: Trend of Export of goods and services for each of the four nations (2005 - 2010)

Figure 3.4: Trend of electricity consumption in each of the four nations (2005 - 10)

Figure 3.5: Wind energy industry life cycle stages for each nation

Figure 3.6: Supply chain of wind energy industry

Figure 3.7: Participants of a wind farm

Figure 3.8: Supply chain assessment of the Chinese wind energy industry

Figure 3.9: Supply chain assessment of the US wind energy industry

Figure 3.10: Supply chain assessment of the German wind energy industry

Figure 3.11: Supply chain assessment of the Indian wind energy industry

Figure 3.12: Geographical cluster map for Chinese wind energy industry

Figure 3.13: China wind density map

Figure 3.14: China population density map

Figure 3.15: Geographical cluster map for US wind energy industry

Figure 3.16: US wind density map

Figure 3.17: US population density map

Figure 3.18: Geographical cluster map of German wind energy industry

Figure 3.19: Geographical cluster map for Indian wind energy industry.

Figure 3.20: India wind density map

#### Chapter 4: Trends and Forecasts in Wind Energy Market of China, US, Germany & India

Figure 4.1: Annual trends of wind energy capacity installed (2005 – 2010)

Figure 4.2: Trends of cumulative wind energy capacity installation (2005 – 2010)

Figure 4.3: Trends of evolution in the size of wind turbines installed (2005 – 2010)

Figure 4.4: Forecasts of wind energy capacity installation annually (2011 – 2016)

Figure 4.5: Forecasts of cumulative wind energy capacity installation (2011 – 2016)

Figure 4.6: Force Field analysis for wind energy industry globally

#### Chapter 5: International Competitive Benchmarking for Wind Energy Industry

Figure 5.1: Porter's diamond model

Figure 5.2: Scores for various factors input conditions

Figure 5.3: Score for parameters under infrastructure

Figure 5.4: Score for parameters under capital access

Figure 5.5: Countries' scores for factors input conditions

Figure 5.6: Scores for various demand conditions

Figure 5.7: Countries' scores for demand conditions

Figure 5.8: Scores for various structures

Figure 5.9: Score for 'concentrated versus fragmented'

Figure 5.10: Score for 'competitive versus restrictive'

Figure 5.11: Score for 'global presence or local presence'

Figure 5.12: Number of wind turbine OEMs in each nation

Figure 5.13: Annual demand of wind turbines in each nation - 2010

Figure 5.14: Wind turbine manufacturing capacities (in GW) of each nation



Figure 5.15: Demand versus manufacturing capacities of each nation - 2010

Figure 5.16: Countries' scores for strategy, structure and rivalry

Figure 5.17: Scores for various related and supporting industries

Figure 5.18: Countries' scores for related and supporting industries

Figure 5.19: Scores for various government interferences

Figure 5.20: Countries' scores for government interference

Figure 5.21: Key success factors for wind energy market

Figure 5.22: Comparative ETOP analysis

Figure 5.23: Average turbine cost per MW in USD million

Figure 5.24: Average O&M cost per MW in USD

Figure 5.25: Wind farm capital cost in USD million

Figure 5.26: Cost – Return analysis for wind farm projects

Chapter 6. Growth Attractiveness Analysis of Wind Energy Industry for China, US, Germany and India

Figure 6.1: Comparative growth potential scenario for the wind energy industry

Figure 6.2: Growth leadership quadrant

Figure 6.3: Growth trend matrix for wind energy industry in Germany, US, China and India

Figure 6.4: Forecast growth matrix for wind energy industry in Germany, US, China and India

## List Of Tables

### LIST OF TABLES

#### Chapter 1. Executive Summary

Table 1.1: Trends of wind energy capacity installation

Table 1.2: Wind energy market parameters for Germany, US, China and India

Table 1.3: Cost and return analysis for a wind farm investor

Table 1.4: Government incentives for wind energy

#### Chapter 3. Regional Benchmarking of Wind Energy Industry for China, US, Germany and India

Table 3.1: Micro-Economy benchmarking for wind energy industry (2010)

Table 3.2: Supply chain mapping of the Chinese wind turbine industry.

Table 3.3: Supply chain mapping of the US wind turbine industry.

Table 3.4: Supply chain mapping of the German wind turbine industry.

Table 3.5: Supply chain mapping of Indian wind turbine industry.

Table 3.6: Supply chain cluster analysis

Table 3.7: Cluster concentration analysis for wind energy industry

#### Chapter 4. Trends and Forecasts in Wind Energy Market of China, US, Germany & India

Table 4.1: CAGR estimation for wind energy by 2016 in each of the four nations

#### Chapter 5. International Competitive Benchmarking for Wind Energy Industry

Table 5.1: Countries' annual market share for wind energy installed globally (2006 – 2010)

Table 5.2: CAGR for wind energy installed (last 5 years)

Table 5.3: Proportion of wind to total electricity (2010)

Table 5.4: Unexploited wind energy potential (2010)

Table 5.5: Threats and opportunities for wind turbine OEMs

## I would like to order

Product name: Regional Benchmarking for Wind Energy Market 2010: China, US, Germany, and India

Product link: <https://marketpublishers.com/r/R0B3376FC57EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/R0B3376FC57EN.html>