

# Growth Opportunities in the Indian Composites Market

Published: July 2016

Trends, opportunities and forecast in this market to 2021 by end use application (pipe and tank, transportation, wind energy, aerospace and defense, construction, marine, electrical and electronics, others), manufacturing technology (hand lay-up, filament winding, pultrusion, RTM/VRTM, compression molding, thermoplastic molding, others), material type (fiberglass, resin), and polymer type (thermoplastic, thermoset)

## Table of Content

## Table of Contents

### 1. Executive Summary

### 2. Industry Background and Classifications

#### 2.1: Introduction

2.1.1: Evolution of the Composites Market in India

2.1.2: Market Served

#### 2.2: Industry Classifications

#### 2.3: Supply Chain for the Indian Composites Market

### 3. Market Trends and Forecast Analysis

#### 3.1: India Composites Market Analysis 2015

##### 3.1.1: Composites Market by Application

3.1.1.1: Pipe and Tanks

3.1.1.2: Wind Energy

3.1.1.3: Transportation

3.1.1.4: Marine

3.1.1.5: Electrical and Electronics

3.1.1.6: Construction

3.1.1.7: Aerospace/Defense

#### 3.2: Composites Market by Manufacturing Technology

#### 3.3: Composites Shipment by Polymer Type

#### 3.4: GDP Trend and Forecast

3.4.1: Sectoral Contribution

3.4.2: India Social Indicators

3.4.3: Export and Import Market

#### 3.5: Trends of the Indian Composites Market from 2010 to 2015

##### 3.5.1: Trend in Indian Composites Market by Application

- Pipe and tank
- Transportation
- Wind energy
- Aerospace and defense
- Construction
- Marine
- Electrical and electronics
- Others

### 3.6: Forecast for the Indian Composites Market from 2016 to 2021

#### 3.6.1: Forecast in Indian Composites Market by Application

- Pipe and tank
- Transportation
- Wind energy
- Aerospace and defense
- Construction
- Marine
- Electrical and electronics
- Others

### 3.7: Indian Fiberglass Market

#### 3.7.1: Breakdown of the Fiberglass Market by Product Form

### 3.8: Indian Resin Market

## 4. Competitor Analysis

### 4.1: Product Portfolio Analysis

### 4.2: Operational Integration

### 4.3: Porter's Five Forces Analysis

## 5. Growth Opportunity and Strategic Analysis

### 5.1: Growth Opportunities Analysis

### 5.2: Emerging Trends of the Indian Composites Market

### 5.3: Composites consumption by Country

### 5.4: Strategic Analysis

#### 5.4.1: New Product Development

#### 5.4.2: Capacity Expansion in Indian Composites Industry

#### 5.4.3: Certification and Licensing

#### 5.4.4: Mergers, Acquisitions and Joint Ventures in the Indian Composites Industry

## 6. Company Profile of Leading Players

## List of Figures

### Chapter 2. Industry Background and Classifications

Figure 2.1: Evolution of Composites Application Development in India

Figure 2.2: Composites Application Development in India by Decade

Figure 2.3: Trends of Indian Composites Market (Million Pounds) from 1981 to 2015

Figure 2.4: Indian Composites Market

Figure 2.5: Wind Turbine (Source: PE Composites)

Figure 2.6: Application of Composites in Various Automotive Components

Figure 2.7: Different FRP Parts for Railway End Use Applications

Figure 2.8: Application of Composites in Marine Industry

Figure 2.9: Classification of Composites Raw Material

Figure 2.10: Supply Chain for Indian Composites Market

### Chapter 3. Market Trends and Forecast Analysis

Figure 3.1: Indian Composites Market (Million Pounds) Distribution by End Use Application in 2015

Figure 3.2: Indian Composites Market Shipment (Million Pounds) by End Use Application in 2015

Figure 3.3: Indian Composites Market (\$M) Distribution by End Use Application in 2015

Figure 3.4: Indian Composites Market Shipment (\$M) by Application in 2015

Figure 3.5: Indian Composites Market (Million Pounds) of Pipe and Tank Applications in 2015

Figure 3.6: Indian Composites Market (\$M) of Pipe and Tank Applications in 2015

Figure 3.7: Indian Composites Market (Million Pounds) of Wind Energy Applications in 2015

Figure 3.8: Indian Composites Market (\$M) of Wind Energy Applications in 2015

Figure 3.9: Indian Composites Market (Million Pounds) of Transportation Applications in 2015  
Figure 3.10: Indian Composites Market (\$M) of Transportation Application in 2015  
Figure 3.11: Indian Automobile Production (Million Units) by Type of Vehicle in 2015  
Figure 3.12: Indian Automobile Production by Type of Vehicle (Million Units) in 2015  
Figure 3.13: Indian Composites Market (Million Pounds) of Marine Application in 2015  
Figure 3.14: Indian Composites Market (\$M) of Marine Application in 2015  
Figure 3.15: Factors Influencing the Luxury Boat Industry  
Figure 3.16: Indian Composites Market (Million Pounds) of Electrical and Electronics Applications in 2015  
Figure 3.17: Indian Composites Market (\$M) of Electrical and Electronics Applications in 2015  
Figure 3.18: Flowchart for the Production of Printed Circuit Board  
Figure 3.19: Indian Composites Market (Million Pounds) of Construction Applications in 2015  
Figure 3.20: Indian Composites Market (\$M) of Construction Application in 2015  
Figure 3.21: Indian Composites Market (Million Pounds) of Aerospace and Defense Applications in 2015  
Figure 3.22: Indian Composites Market (\$M) of Aerospace and Defense Applications in 2015  
Figure 3.23: Indian Composites Market (Million Pounds) by Manufacturing Technology in 2015  
Figure 3.24: Indian Composites Market (Million Pounds) Distribution by Polymer Type in 2015  
Figure 3.25: Indian Composites Market (Million Pounds) by Polymer Type in 2015  
Figure 3.26: Trends of Real GDP Growth Rate in India from 2010 to 2015 (Source: IMF)  
Figure 3.27: Forecast for Real GDP Growth Rate in India from 2016 to 2021 (Source: Lucintel)  
Figure 3.28: GDP Sectoral Contribution in 2015  
Figure 3.29: Trends of Population Growth Rate from 2010 to 2015 (Source: IMF and Lucintel)  
Figure 3.30: Forecast for Population Growth Rate from 2016 to 2021 (Source: IMF and Lucintel)  
Figure 3.31: Trends of Inflation Rate from 2010 to 2015 (Source: Reserve Bank of India)  
Figure 3.32: Forecast for Inflation Rate from 2016 to 2021 (Source: Reserve Bank of India)  
Figure 3.33: Trends of Unemployment Rate from 2010 to 2015 (Source: IMF and Lucintel)  
Figure 3.34: Forecast for Unemployment Rate from 2010 to 2015 (Source: IMF and Lucintel)  
Figure 3.35: Trend of Total Indian Import-Export Market (\$M) from 2010 to 2015  
Figure 3.36: Trends of Total Indian Export Market (Million Pounds) of Thermoset Resins from 2010 to 2015  
Figure 3.37: Trends of Total Indian Import Market (Million Pounds) of Thermoset Resins from 2010 to 2015  
Figure 3.38: Trends of Total Indian Import-Export Market (Million Pounds) of Polyester Resin from 2010 to 2015  
Figure 3.39: Trends of Total Indian Import-Export Market (M lbs) of Epoxy Resin from 2010 to 2015  
Figure 3.40: Trends of Total Indian Import-Export Market (Million Pounds) of Acrylic Resin from 2010 to 2015  
Figure 3.41: Trends of Indian Composites Shipment (Million Pounds) from 2010 to 2015  
Figure 3.42: Indian Composites Market (Million Pounds) Distribution by End Use Application in 2010  
Figure 3.43: Indian Composites Market (Million Pounds) Distribution by End Use Application in 2015  
Figure 3.44: Trends of Indian Composites Market (Million Pounds) by End Use Application from 2010 to 2015  
Figure 3.45: CAGR of Indian Composites Market (Million Pounds) by End Use Application from 2010 to 2015  
Figure 3.46: Growth Rate of Indian Composites Market (Million Pounds) by End Use Application during 2014-2015  
Figure 3.47: Trends of India Wind Energy Capacity Installation (Cumulative) from 2010 to 2015  
Figure 3.48: Year-over-Year Wind Energy Capacity Addition in India from 2010 to 2015  
Figure 3.49: Trends of Electricity Production (BU) in India from 2010 to 2015  
Figure 3.50: Trends of Vehicle Production in India from 2010 to 2015  
Figure 3.51: Trends of the Indian Automobile Production in India from 2010 to 2015  
Figure 3.52: Trends of Indian Consumer Electronics Production from 2010 to 2015  
Figure 3.53: Forecast for the Indian Composites Market (Million Pounds) from 2016 to 2021  
Figure 3.54: Forecast for the Indian Composites Market (Million Pound) by End Use Application from 2016 to 2021  
Figure 3.55: Forecast for the Indian Composites Market (Million Pounds) Distribution by End Use Application in 2016  
Figure 3.56: Forecast for the Indian Composites Market (Million Pounds) Distribution by End Use Application in 2021  
Figure 3.57: Growth Forecast for the Indian Composites Market (Million Pounds) by Application from 2016 to 2017  
Figure 3.58: CAGR of the Indian Composites Market (\$M) by End Use Application from 2016 to 2021  
Figure 3.59: Fiberglass Demand – India and Rest of the World in 2015  
Figure 3.60: Amount of Fiberglass Shipment in India and Rest of the World in 2015  
Figure 3.61: Fiberglass Demand – India and Rest of the World in 2021  
Figure 3.62: Amount of Fiberglass Shipment in India and Rest of the World in 2021  
Figure 3.63: Fiberglass End Use Applications by Manufacturing Process and Reinforcement Form  
Figure 3.64: Trends of Fiberglass Production in India from 2010 to 2015  
Figure 3.65: Fiberglass Market (Million Pounds) Distribution by Type of Product in 2015

Figure 3.66: Fiberglass Market (Million Pounds) Breakdown by Type of Products in 2015  
Figure 3.67: Forecast for Fiberglass Production in India from 2016 to 2021  
Figure 3.68: Emphasis on Cost and Performance by Various Industries  
Figure 3.69: Trends of Resin Consumption (Million Pounds) in the Indian Composites Market from 2010 to 2015  
Figure 3.70: Forecast for Resin Consumption (Million Pounds) in the Indian Composites Market from 2016 to 2021

#### **Chapter 4. Competitor Analysis**

Figure 4.1: Mapping of Leading Composites Suppliers based on Raw Materials in the Indian Composites Market  
Figure 4.2: Operational Integration of the Key Indian Composites Manufacturers  
Figure 4.3: Porter's Five Forces Analysis of India's Composites Industry by Materials Perspective

#### **Chapter 5. Growth Opportunity and Strategic Analysis**

Figure 5.1: Growth Opportunities in the Indian Composites Market  
Figure 5.2: Emerging Trends in the Indian Composites Market  
Figure 5.3: Focused R&D Projects of the Indian Composites Market  
Figure 5.4: Composites (Pounds) Per Capita of Top 12 Leading Countries of the World in 2015  
Figure 5.5: Composites Potential for Top 12 Leading Countries of the World  
Figure 5.6: New Product Launches in terms of Raw Materials in the Indian Composites Market in 2014  
Figure 5.7: Capacity Building by Leading Players of the Indian Composites Market during the trend period (2010-2015)

### **List of Tables**

#### **Chapter 1. Executive Summary**

Table 1.1: India Composites Market Parameters and Attributes – Materials Perspective  
Table 1.2: India Composites Market Parameters and Attributes – End Product Market Perspective

#### **Chapter 3. Industry Background and Classifications**

Table 3.1: State-Wise Water Projects under Pipeline in India 2015  
Table 3.2: Major Ongoing and Proposed Domestic Pipeline Projects  
Table 3.3: Six Major Airport Passenger Traffic (Million) in India 2015  
Table 3.4: Ranking of Top Three Manufacturing Technologies Based on Annual Composites Consumption  
Table 3.5: Indian Economy – Selected Indicators  
Table 3.6: GDP Growth Percentage across Sectors  
(Source: RBI)  
Table 3.7: Rank of India in terms of GDP growth rate in 2015  
Table 3.8: Exports by Application  
Table 3.9: Market Trends from 2010 to 2015 in the Indian Composites Shipment  
Table 3.10: Average Growth Rates for One, Three, and Five years in the Indian Composites Market in Terms of Volume Shipment  
Table 3.11: Market Size and Growth Rates from 2014 to 2015 in Various Application Segments of the Indian Composites Market in Terms of Volume Shipment  
Table 3.12: Market Size and Annual Growth Rates from 2010 to 2015 in Various End Use Application Segments of the Indian Composites Market in Terms of Value and Volume Shipment  
Table 3.13: Market Size and Annual Growth Forecasts for Shipments Volume during the Next Five Years from 2016 to 2021 in Various End Use Application Segments of the Indian Composites Market  
Table 3.14: Market Forecast (from 2016 to 2021) in Indian Composites Market Shipments  
Table 3.15: Average Growth Rates for One, Three, and Five Years in the Indian Composites Market in Terms of Volume  
Table 3.16: Market Size and Annual Growth Rates from 2016 to 2021 in Various End Use Application Segments of Indian Composites Market in Terms of Value and Volume Shipment

#### **Chapter 5. Growth Opportunity and Strategic Analysis**

Table 5.1: New Product Launches by Major Indian composites manufacturers during Last Five Years  
Table 5.2: New Product Launches by Major Indian composites manufacturers during Last Five Years  
Table 5.3: Certification and Licenses Acquired by Major Competitors in Indian Composites Market