

# **Pressure Vessel Composite Materials Market by Material (Epoxy Resin, Carbon Fiber, and Glass Fiber) and End-use Industry (CNG Vehicles, Hydrogen Vehicles, and Gas Transport): Global Opportunity Analysis and Industry Forecast, 2017-2023**

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## **Abstracts**

Pressure vessels are containers that are specifically designed to hold gasses or fluids at a weight not equal to the encompassing weight without explosion. These vessels are made of steel alloys, other metal alloys, and composites. Moreover, the demand for composites has increased for manufacturing pressure vessels, owing to the high strength-to-weight ratio. Composites not only improve the performance, but also offer significant amount of material savings. They have applications in various industries, such as oil refineries, atomic reactors, gas repositories, automobile, aerospace, and others.

The global pressure vessel composite materials market was valued at \$434 million in 2016, and is expected to reach at \$1,871 million by 2023, growing at a CAGR of 23.0% from 2017 to 2023. The pressure vessel composite materials market is segmented based on material, end-use industry, and geography. The demand for pressure vessels made-up of composite materials has increased, owing to rise in the usage of natural gas vehicles. Asia-Pacific witnesses a growth of 55% in the NGVs from 2012 to 2016. Similarly, the growth for NGVs in the LAMEA was approximately 12% during 2012–2016. The statistics indicates the growth of overall NGVs in the developing economies, which led the growth of pressure vessel composite materials market. Moreover, high mechanical, adhesive, toughness, weather resistant, and lightweight properties are ideal characteristics consider while manufacturing pressure vessels. Thus, superior properties of composites as compared to metal alloys is expected to drive the market growth during the forecast period. Based on material, the market is classified into epoxy resin, carbon fiber and glass fiber.

In 2016, the epoxy resin as a composite segment dominated the global market in terms of volume, owing to its high mechanical, high adhesion, and weather resistant properties. In addition, the carbon fiber segment witnessed the highest growth due to properties such as high tensile strength and greater design flexibility. Based on application, it is categorized into CNG vehicles, hydrogen vehicles, and gas transport. The hydrogen vehicles segment is estimated to witness the highest growth rate from 2017 to 2023, owing to its adoption by major automobile manufacturers such as, Ford, BMW, Nissan, Toyota.

Geographically, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Asia-Pacific dominated the global market in 2016, owing to rise in usage of natural gas vehicles in countries, such as China, Australia, South Korea, and India.

The companies profiled in the report are as follows

Samuel Pressure Vessel Group

Doosan Heavy Industries & Construction

Mitsubishi Heavy Industries, Ltd.

Bharat Heavy Electricals Limited

Larsen & Toubro Limited

Westinghouse Electric Company LLC.

General Electric

Halvorsen

IHI Corporation

Pressure Vessels (India)

## **KEY BENEFITS FOR STAKEHOLDERS**

The report provides an in-depth analysis of the current trends, drivers, and dynamics of the global pressure vessel composite materials market to elucidate the prevailing opportunities and the probable investment pockets.

It offers qualitative trends and quantitative analysis from 2016 to 2023 to assist the stakeholders to understand the market scenario.

A detailed analysis of the key segments demonstrates the consumption of composite materials in different end-use industries.

Competitive intelligence highlights the business practices, strategies, and developments followed by key business players globally.

## **KEY MARKET SEGMENTS**

### **BY MATERIAL**

Epoxy Resin

Carbon Fiber

Glass Fiber

### **BY END-USE INDUSTRY**

CNG Vehicles

Hydrogen Vehicles

Gas Transport

### **BY GEOGRAPHY**

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

South Africa

UAE

Rest of LAMEA

## THE OTHER KEY PLAYERS IN THE MARKET VALUE CHAIN INCLUDE THE FOLLOWING

Babcock and Wilcox Enterprises, Inc.

Dongfang Electric Machinery Co., Ltd.

Abott

Alloy Products Corp.

Barton Firtop

The above list of companies is not profiled, but can be profiled based on client request.

## Contents

### CHAPTER 1. INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS
- 1.3. KEY MARKET SEGMENT
- 1.4. RESEARCH METHODOLOGY
  - 1.4.1. Secondary research
  - 1.4.2. Primary research
  - 1.4.3. Analyst tool & model

### CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. MARKET SNAPSHOT
- 2.2. CXO PERSPECTIVES

### CHAPTER 3. MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
  - 3.2.1. Top investment pockets
  - 3.2.2. Top winning strategies
- 3.3. PORTERS FIVE FORCES ANALYSIS
- 3.4. MARKET DYNAMICS
  - 3.4.1. Drivers
    - 3.4.1.1. Bulk transportation of CNG
    - 3.4.1.2. Increased number of natural gas vehicles (NGVs)
    - 3.4.1.3. Increased penetration of carbon fiber in automotive
  - 3.4.2. Restraints
    - 3.4.2.1. High prices of carbon fiber
    - 3.4.2.2. Unavailability of carbon fibers
  - 3.4.3. Opportunities
    - 3.4.3.1. Emerging markets in Asia-Pacific region

### CHAPTER 4. PRESSURE VESSEL COMPOSITE MATERIALS MARKET, BY MATERIAL

#### 4.1. INTRODUCTION

*Pressure Vessel Composite Materials Market by Material (Epoxy Resin, Carbon Fiber, and Glass Fiber) and End-us...*

- 4.1.1. Market size and forecast
- 4.2. EPOXY RESIN
  - 4.2.1. Key market trends, growth factors, and opportunities
  - 4.2.2. Market size and forecast
- 4.3. GLASS FIBER
  - 4.3.1. Key market trends, growth factors, and opportunities
  - 4.3.2. Market size and forecast
- 4.4. CARBON FIBER
  - 4.4.1. Key market trends, growth factors, and opportunities
  - 4.4.2. Market size and forecast

## **CHAPTER 5. PRESSURE VESSEL COMPOSITE MATERIALS MARKET, BY END-USER INDUSTRY**

- 5.1. INTRODUCTION
  - 5.1.1. Market size and forecast
- 5.2. CNG VEHICLES
  - 5.2.1. Key market trends, growth factors, and opportunities
  - 5.2.2. Market size and forecast
- 5.3. HYDROGEN VEHICLES
  - 5.3.1. Key market trends, growth factors, and opportunities
  - 5.3.2. Market size and forecast
- 5.4. GAS STORAGE
  - 5.4.1. Key market trends, growth factors, and opportunities
  - 5.4.2. Market size and forecast

## **CHAPTER 6. PRESSURE VESSEL COMPOSITE MATERIALS MARKET, BY GEOGRAPHY**

- 6.1. INTRODUCTION
  - 6.1.1. Market size and forecast
- 6.2. NORTH AMERICA
  - 6.2.1. Key market trends, growth factors, and opportunities
  - 6.2.2. Market size and forecast
  - 6.2.3. U.S.
    - 6.2.3.1. Market size and forecast, By end-user industry
  - 6.2.4. Canada
    - 6.2.4.1. Market size and forecast, By end-user industry
  - 6.2.5. Mexico

6.2.5.1. Market size and forecast, By end-user industry

### 6.3. EUROPE

6.3.1. Key market trends, growth factors, and opportunities

6.3.2. Market size and forecast

6.3.3. UK

6.3.3.1. Market size and forecast, By end-user industry

6.3.4. Germany

6.3.4.1. Market size and forecast, By end-user industry

6.3.5. France

6.3.5.1. Market size and forecast, By end-user industry

6.3.6. Italy

6.3.6.1. Market size and forecast, By end-user industry

6.3.7. Russia

6.3.7.1. Market size and forecast, By end-user industry

6.3.8. Rest of Europe

6.3.8.1. Market size and forecast, By end-user industry

### 6.4. ASIA-PACIFIC

6.4.1. Key market trends, growth factors, and opportunities

6.4.2. Market size and forecast

6.4.3. Japan

6.4.3.1. Market size and forecast, By end-user industry

6.4.4. China

6.4.4.1. Market size and forecast, By end-user industry

6.4.5. India

6.4.5.1. Market size and forecast, By end-user industry

6.4.6. Rest of Asia-Pacific

6.4.6.1. Market size and forecast, By Material

### 6.5. LAMEA

6.5.1. Key market trends, growth factors, and opportunities

6.5.2. Market size and forecast

6.5.3. Brazil

6.5.3.1. Market size and forecast, By end-user industry

6.5.4. Argentina

6.5.4.1. Market size and forecast, By end-user industry

6.5.5. South Africa

6.5.5.1. Market size and forecast, By end-user industry

6.5.6. UAE

6.5.6.1. Market size and forecast, By end-user industry

6.5.7. Rest of LAMEA



6.5.7.1. Market size and forecast, By end-user industry

## **CHAPTER 7. COMPANY PROFILES**

### **7.1. SAMUEL CNG PRESSURE VESSEL GROUP**

- 7.1.1. Company overview
- 7.1.2. Company snapshot
- 7.1.3. Operating business segments
- 7.1.4. Business performance
- 7.1.5. Key strategic moves and developments

### **7.2. DOOSAN HEAVY INDUSTRIES & CONSTRUCTION**

- 7.2.1. Company overview
- 7.2.2. Company snapshot
- 7.2.3. Operating business segments
- 7.2.4. Business performance
- 7.2.5. Key strategic moves and developments

### **7.3. MITSUBISHI HEAVY INDUSTRIES, LTD.**

- 7.3.1. Company overview
- 7.3.2. Company snapshot
- 7.3.3. Operating business segments
- 7.3.4. Business performance
- 7.3.5. Key strategic moves and developments

### **7.4. BHARAT HEAVY ELECTRICALS LIMITED**

- 7.4.1. Company overview
- 7.4.2. Company snapshot
- 7.4.3. Operating business segments
- 7.4.4. Business performance
- 7.4.5. Key strategic moves and developments

### **7.5. LARSEN & TOUBRO LIMITED**

- 7.5.1. Company overview
- 7.5.2. Company snapshot
- 7.5.3. Operating business segments
- 7.5.4. Business performance
- 7.5.5. Key strategic moves and developments

### **7.6. WESTINGHOUSE ELECTRIC COMPANY LLC.**

- 7.6.1. Company overview
- 7.6.2. Company snapshot
- 7.6.3. Operating business segments
- 7.6.4. Business performance

7.6.5. Key strategic moves and developments

## 7.7. GENERAL ELECTRIC

7.7.1. Company overview

7.7.2. Company snapshot

7.7.3. Operating business segments

7.7.4. Business performance

7.7.5. Key strategic moves and developments

## 7.8. HALVORSEN

7.8.1. Company overview

7.8.2. Company snapshot

7.8.3. Operating business segments

7.8.4. Business performance

7.8.5. Key strategic moves and developments

## 7.9. IHI CORPORATION

7.9.1. Company overview

7.9.2. Company snapshot

7.9.3. Operating business segments

7.9.4. Business performance

7.9.5. Key strategic moves and developments

## 7.10. CNG PRESSURE VESSELS (INDIA)

7.10.1. Company overview

7.10.2. Company snapshot

7.10.3. Operating business segments

7.10.4. Business performance

7.10.5. Key strategic moves and developments

## List Of Tables

### LIST OF TABLES

TABLE 1. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY MATERIAL, 2016-2023 (\$THOUSAND)

TABLE 2. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 3. GLOBAL PRESSURE VESSEL EPOXY RESIN COMPOSITE MATERIAL MARKET VALUE, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 4. GLOBAL PRESSURE VESSEL EPOXY RESIN COMPOSITE MATERIAL MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 5. GLOBAL PRESSURE VESSEL CARBON FIBER COMPOSITE MATERIAL MARKET VALUE, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 6. GLOBAL PRESSURE VESSEL CARBON FIBER COMPOSITE MATERIAL MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 7. GLOBAL PRESSURE VESSEL GLASS FIBER COMPOSITE MATERIAL MARKET VALUE, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 8. GLOBAL PRESSURE VESSEL GLASS FIBER COMPOSITE MATERIAL MARKET VOLUME, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 9. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 10. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 11. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE FOR CNG VEHICLES, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 12. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME FOR CNG VEHICLES, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 13. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE FOR HYDROGEN VEHICLES, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 14. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME FOR HYDROGEN VEHICLES, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 15. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE FOR GAS TRANSPORTATION, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 16. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME FOR GAS TRANSPORTATION, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 17. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY GEOGRAPHY, 2016-2023 (\$THOUSAND)

TABLE 18. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET

VOLUME, BY GEOGRAPHY, 2016-2023 (TONS)

TABLE 19. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY MATERIAL, 2016-2023 (\$THOUSAND)

TABLE 20. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 21. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 22. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 23. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY COUNTRY, 2016-2023 (\$THOUSAND)

TABLE 24. NORTH AMERICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY COUNTRY, 2016-2023 (TONS)

TABLE 25. U.S. PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,  
BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 26. U.S. PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME,  
BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 27. CANADA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 28. CANADA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 29. MEXICO PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 30. MEXICO PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 31. EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY MATERIAL, 2016-2023 (\$THOUSAND)

TABLE 32. EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 33. EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 34. EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 35. GERMANY PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 36. GERMANY PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 37. UK PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY  
END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 38. UK PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 39. FRANCE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 40. FRANCE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 41. ITALY PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 42. ITALY PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 43. RUSSIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 44. RUSSIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 45. REST OF EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 46. REST OF EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 47. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY MATERIAL, 2016-2023 (\$THOUSAND)

TABLE 48. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 49. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 50. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 51. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY COUNTRY, 2016-2023 (\$THOUSAND)

TABLE 52. ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY COUNTRY, 2016-2023 (TONS)

TABLE 53. CHINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 54. CHINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 55. INDIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 56. INDIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 57. JAPAN PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,

BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 58. JAPAN PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 59. REST OF ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 60. REST OF ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 61. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,  
BY MATERIAL, 2016-2023 (\$THOUSAND)

TABLE 62. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 63. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,  
BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 64. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 65. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,  
BY COUNTRY, 2016-2023 (\$THOUSAND)

TABLE 66. LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY COUNTRY, 2016-2023 (TONS)

TABLE 67. BRAZIL PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 68. BRAZIL PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY MATERIAL, 2016-2023 (TONS)

TABLE 69. ARGENTINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 70. ARGENTINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET  
VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 71. SOUTH AFRICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 72. SOUTH AFRICA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 73. UAE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE,  
BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 74. UAE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VOLUME,  
BY END-USER INDUSTRY, 2016-2023 (TONS)

TABLE 75. REST OF LAMEA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VALUE, BY END-USER INDUSTRY, 2016-2023 (\$THOUSAND)

TABLE 76. REST OF LAMEA PRESSURE VESSEL COMPOSITE MATERIALS  
MARKET VOLUME, BY END-USER INDUSTRY, 2016-2023 (TONS)



TABLE 77. SAMUEL PRESSURE VESSEL GROUP: COMPANY SNAPSHOT
TABLE 78. SAMUEL PRESSURE VESSEL GROUP: OPERATING SEGMENTS
TABLE 79. DOOSAN HEAVY INDUSTRIES & CONSTRUCTION: COMPANY SNAPSHOT
TABLE 80. DOOSAN HEAVY INDUSTRIES & CONSTRUCTION: OPERATING SEGMENTS
TABLE 81. MITSUBISHI HEAVY INDUSTRIES, LTD.: COMPANY SNAPSHOT
TABLE 82. MITSUBISHI HEAVY INDUSTRIES, LTD.: OPERATING SEGMENTS
TABLE 83. BHARAT HEAVY ELECTRICALS LIMITED: COMPANY SNAPSHOT
TABLE 84. BHARAT HEAVY ELECTRICALS LIMITED: OPERATING SEGMENTS
TABLE 85. LARSEN & TOUBRO LIMITED: COMPANY SNAPSHOT
TABLE 86. LARSEN & TOUBRO LIMITED: OPERATING SEGMENTS
TABLE 87. WESTINGHOUSE ELECTRIC COMPANY LLC: COMPANY SNAPSHOT
TABLE 88. WESTINGHOUSE ELECTRIC COMPANY LLC: OPERATING SEGMENTS
TABLE 89. GENERAL ELECTRIC COMPANY SNAPSHOT
TABLE 90. GENERAL ELECTRIC COMPANY: OPERATING SEGMENTS
TABLE 91. HALVORSEN: COMPANY SNAPSHOT
TABLE 92. HALVORSEN: OPERATING SEGMENTS
TABLE 93. IHI CORPORATION: COMPANY SNAPSHOT
TABLE 94. IHI CORPORATION: OPERATING SEGMENTS
TABLE 95. PRESSURE VESSELS (INDIA): COMPANY SNAPSHOT
TABLE 96. PRESSURE VESSELS (INDIA): OPERATING SEGMENTS

## List Of Figures

### LIST OF FIGURES

FIGURE 1. GLOBAL PRESSURE VESSEL COMPOSITE MATERIALS MARKET: SEGMENTATION

FIGURE 2. TOP INVESTMENT POCKETS, BY END-USER INDUSTRY

FIGURE 3. TOP WINNING STRATEGIES

FIGURE 4. BARGAINING POWER OF SUPPLIERS

FIGURE 5. BARGAINING POWER OF BUYERS

FIGURE 6. THREAT OF NEW ENTRANTS

FIGURE 7. THREAT OF SUBSTITUTES

FIGURE 8. COMPETITIVE RIVALRY

FIGURE 9. U.S. PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 10. CANADA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 11. MEXICO PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 12. UK PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 13. GERMANY PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 14. FRANCE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 15. ITALY PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 16. RUSSIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 17. REST OF EUROPE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 18. CHINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 19. INDIA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 20. JAPAN PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 21. REST OF ASIA-PACIFIC PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)



FIGURE 22. BRAZIL PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 23. ARGENTINA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 24. SOUTH AFRICA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 25. UAE PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

FIGURE 26. REST OF LAMEA PRESSURE VESSEL COMPOSITE MATERIALS MARKET VALUE, 2015-2023 (\$THOUSAND)

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