

Carbon Nanotubes Market by Type ((Single-Walled Carbon Nanotubes (SWCNTs) and Multi-Walled Carbon Nanotubes (MWCNTs)), Application (Structural Polymer Composites, Conductive Polymer Composites, Conductive Adhesives, Fire Retardant Plastics, Metal Matrix Composites, Li-ion Battery Electrodes, and Others), and End User (Electricals & Electronics, Aerospace & Defense, Energy, Sporting Goods, Automotive, Industrial, and Others): Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global carbon nanotubes market was valued at \$2.6 billion in 2019, and is projected to reach \$5.8 billion by 2027, growing at a CAGR of 10.7% from 2020 to 2027.

Carbon nanotubes (CNTs) are advanced carbon materials exhibiting different physio-chemical properties than other carbon materials. CNT is an allotrope of carbon with a cylindrical nanostructure. It exhibits remarkable characteristics, such as electrical, optical, and thermal conductivity; tensile strength; and chemical reactivity, which increase its applicability in aerospace & defense, automotive, construction, electricals & electronics, life science & healthcare, personal care, and other industries. These properties and applications of CNTs depend on the type and quality of materials used for manufacturing them. The characteristic properties of CNTs, such as high tensile strength, electrical conductivity, current carrying capacity, gas & energy storage capacity, are the major factors that drive their adoption for various applications.

The global carbon nanotubes market is presently driven by end-users such as electricals & electronics, automotive, and energy sectors. Carbon nanotubes are used to make transistors, displays, touch screens, and various sensors. Transistors made from carbon nanotubes are better than silicon transistors with respect to their efficiency and processing speeds. Being among the strongest materials, CNTs are ideal for use in high-performance automotive components. Structural nanocomposites based on carbon nanotubes play a critical role in the safety and long life of aircraft and space equipment. Therefore, rise in adoption of renewable sources of energy, such as wind and tidal, increases the use of wind mills that utilize carbon nanotubes as structural composites.

However, high manufacturing cost and low commercial penetration in various applications are the major restricting factors for the industry. CNT is a core R&D-based industry. Market players have taken significant efforts to reduce cost and improve performance to expand the product penetration across various industry verticals. The global carbon nanotubes market is expected to grow at a high CAGR during the forecast period, owing to its increase in use by its present end-users. However, carbon nanotechnology is a futuristic technology that receives global R&D attention. New applications for carbon nanotubes are projected to provide lucrative opportunities for market growth. For instance, biomedical application of carbon nanotubes is one such potential field. Moreover, carbon nanotubes have proved to be better drug carriers than presently available carriers. Therefore, the toxicity of CNT has presently limited its application.

The global carbon nanotubes market is segmented into type, application, and end-user. Based on type, the market is classified into single-walled carbon nanotubes (SWCNTs) and multi-walled carbon nanotubes (MWCNTs). On the basis of application, the market is segmented into structural polymer composites, conductive polymer composites, conductive adhesives, fire retardant plastics, metal matrix composites, Li-ion battery electrodes, and others including rubber tire reinforcement. Based on end-user, the market is fragmented into electricals & electronics, aerospace & defense, energy, sporting goods, automotive, industrial, and others. Industrial end-users include printing & packaging, rubber, and construction. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA. Presently, Asia-Pacific accounts for the largest share of the market, followed by Europe and North America.

The major companies profiled in this report include Arkema Group, Chasm Advanced Materials Inc., Cheap Tubes Inc., Cnano Technology Limited, Futurecarbon GmbH, Hyperion Catalysis International, Klean Industries Inc., LG Chem, Nano-C Inc., Nanocyl

SA, OCSiAl, and Toray Industries, Inc.

The global carbon nanotubes market report provides in-depth competitive analysis as well as profiles of these major players.

1.1. Key benefits for stakeholders

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

It outlines the current trends and future estimations of the market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The major countries in the region have been mapped according to their individual revenue contribution to the regional market.

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

The profiles of key players and their key strategic developments are enlisted in the report.

IMPACT OF COVID-19 ON THE GLOBAL CARBON NANOTUBES MARKET

The COVID-19 pandemic has negatively affected the global economy by subsequently shrinking the GDPs of numerous economies, thereby changing consumer spending patterns globally.

The global automotive supply chain got disrupted due to lack of workforce and restrictions on manufacturing operations that led to a shortage in key components required in automotive manufacturing.

Further, uncertainty over the economic conditions during the forecast period has led to a decline in consumer confidence, thereby affecting consumer spending. This is expected to decrease vehicle sales during the forecast period. A similar trend is observed in the global demand for electronic goods, thereby impacting

the semiconductor industry.

A decline in manufacturing output as a result of partial operations is expected to decrease the demand for CNTs during the forecast period.

Financial turbulence in leading economies may delay commissioning of new renewable electricity projects, wind mills & tidal energy farms, biofuel facilities, and renewable heat investments.

In addition, the renewable sector in most of the countries is largely dependent on imports from other countries, notably from China. China, the known source of this pandemic, has been the most affected one in terms of material supply and material transport due to COVID-19.

However, to secure constant supply of critical components, countries are expected to focus on uplifting their regional and local manufacturing networks.

The above factors are expected to impact the global carbon nanotubes market growth during the forecast period.

1.2. Key market segments

By Type

Single-Walled Carbon Nanotubes (SWCNTs)

Multi-Walled Carbon Nanotubes (MWCNTs)

By Application

Structural Polymer Composites

Conductive Polymer Composites

Conductive Adhesives

Fire Retardant Plastics

Metal Matrix Composites

Li-ion Battery Electrodes

Others

By End-user

Electricals & Electronics

Aerospace & Defense

Energy

Sporting Goods

Automotive

Industrial

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

UK

Spain

Italy

Rest of Europe

Asia-Pacific

India

China

Japan

Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key players in the global carbon nanotubes market are:

1. Arkema Group
2. Chasm Advanced Materials, Inc.
3. Cheap Tubes Inc.
4. Cnano Technology Limited
5. Futurecarbon GmbH

6. Hyperion Catalysis International
7. Klean Industries Inc.
8. LG Chem
9. Nano-C Inc.
10. Nanocyl SA
11. OCSiAl
12. Toray Industries, Inc.

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.Secondary research
 - 1.4.2.Primary research
- 1.5.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

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

CHAPTER 3:MARKET OVERVIEW

- 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 dynamics
 - 3.4.1.Drivers
 - 3.4.1.1.Growing demand in end-use industries
 - 3.4.1.2.Advancements in the carbon nanotechnology
 - 3.4.1.3.Growing demand for renewable energy sources
 - 3.4.2.Restraints
 - 3.4.2.1.Production scale-up challenges and the resultant high prices
 - 3.4.2.2.Growing demand for inorganic and boron nitride nanotubes
 - 3.4.3.Opportunities
 - 3.4.3.1.Biomedical applications of carbon nanotubes
 - 3.4.3.2.Commercial release of CNT transistors
 - 3.4.3.3.Increasing scope of applications for carbon nanotubes driven by R&D
- 3.5.Value Chain Analysis
- 3.6.Key regulations in the Global Carbon Nanotubes Market
- 3.7.Impact of COVID-19 on the Global Carbon Nanotubes Market
- 3.8.Patent analysis, 2017-2020

CHAPTER 4: CARBON NANOTUBES MARKET, BY TYPE

4.1. Overview

4.2. Single-Walled Carbon Nanotubes (SWCNT)

4.2.1. Key market trends, growth factors, and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market analysis, by country

4.3. Multi-Walled Carbon Nanotubes (MWCNT)

4.3.1. Key market trends, growth factors, and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market analysis, by country

CHAPTER 5: CARBON NANOTUBES MARKET, BY APPLICATION

5.1. Overview

5.1.1. Market size and forecast, by application

5.2. Structural Polymer Composites

5.2.1. Key market trends, growth factors, and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market analysis, by country

5.3. Conductive Polymer Composites

5.3.1. Key market trends, growth factors, and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market analysis, by country

5.4. Conductive Adhesives

5.4.1. Key market trends, growth factors, and opportunities

5.4.2. Market size and forecast, by region

5.4.3. Market analysis, by country

5.5. Fire Retardant Plastics

5.5.1. Key market trends, growth factors, and opportunities

5.5.2. Market size and forecast, by region

5.5.3. Market analysis, by country

5.6. Metal Matrix Composites

5.6.1. Key market trends, growth factors, and opportunities

5.6.2. Market size and forecast, by region

5.6.3. Market analysis, by country

5.7. Li-ion Battery Electrodes

5.7.1. Key market trends, growth factors, and opportunities

5.7.2. Market size and forecast, by region

5.7.3. Market analysis, by country

5.8. Others

5.8.1. Key market trends, growth factors, and opportunities

5.8.2. Market size and forecast, by region

5.8.3. Market analysis, by country

CHAPTER 6: CARBON NANOTUBES MARKET, BY END-USER

6.1. Overview

6.1.1. Market size and forecast, by type

6.2. Electricals & Electronics

6.2.1. Key market trends, growth factors, and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market analysis, by country

6.3. Aerospace & Defence

6.3.1. Key market trends, growth factors, and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market analysis, by country

6.4. Energy

6.4.1. Key market trends, growth factors, and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market analysis, by country

6.5. Sporting Goods

6.5.1. Key market trends, growth factors, and opportunities

6.5.2. Market size and forecast, by region

6.5.3. Market analysis, by country

6.6. Automotive

6.6.1. Key market trends, growth factors, and opportunities

6.6.2. Market size and forecast, by region

6.6.3. Market analysis, by country

6.7. Industrial

6.7.1. Key market trends, growth factors, and opportunities

6.7.2. Market size and forecast, by region

6.7.3. Market analysis, by country

6.8. Others

6.8.1. Key market trends, growth factors, and opportunities

6.8.2. Market size and forecast, by region

6.8.3. Market analysis, by country

CHAPTER 7: CARBON NANOTUBES MARKET, BY REGION

7.1. Overview

7.1.1. Market size and forecast

7.2. North America

7.2.1. Key market trends, growth factors, and opportunities

7.2.2. Market size and forecast, by type

7.2.3. Market size and forecast, by Application

7.2.4. Market size and forecast, by End-user

7.2.5. Market analysis, by country

7.2.6. U.S.

7.2.6.1. Market size and forecast, by type

7.2.6.2. Market size and forecast, by Application

7.2.6.3. Market size and forecast, by End-user

7.2.7. Canada

7.2.7.1. Market size and forecast, by type

7.2.7.2. Market size and forecast, by Application

7.2.7.3. Market size and forecast, by End-user

7.2.8. Mexico

7.2.8.1. Market size and forecast, by type

7.2.8.2. Market size and forecast, by Application

7.2.8.3. Market size and forecast, by End-user

7.3. Europe

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by Type

7.3.3. Market size and forecast, by Application

7.3.4. Market size and forecast, by End-user

7.3.5. Market analysis, by country

7.3.6. FRANCE

7.3.6.1. Market size and forecast, by type

7.3.6.2. Market size and forecast, by Application

7.3.6.3. Market size and forecast, by End-user

7.3.7. GERMANY

7.3.7.1. Market size and forecast, by type

7.3.7.2. Market size and forecast, by Application

7.3.7.3. Market size and forecast, by End-user

7.3.8. UK

7.3.8.1. Market size and forecast, by type

7.3.8.2.Market size and forecast, by Application

7.3.8.3.Market size and forecast, by End-user

7.3.9.SPAIN

7.3.9.1.Market size and forecast, by type

7.3.9.2.Market size and forecast, by Application

7.3.9.3.Market size and forecast, by End-user

7.3.10.ITALY

7.3.10.1.Market size and forecast, by type

7.3.10.2.Market size and forecast, by Application

7.3.10.3.Market size and forecast, by End-user

7.3.11.REST OF EUROPE

7.3.11.1.Market size and forecast, by type

7.3.11.2.Market size and forecast, by Application

7.3.11.3.Market size and forecast, by End-user

7.4.Asia-Pacific

7.4.1.Key market trends, growth factors, and opportunities

7.4.2.Market size and forecast, by Type

7.4.3.Market size and forecast, by Application

7.4.4.Market size and forecast, by End-user

7.4.5.Market analysis, by country

7.4.6.INDIA

7.4.6.1.Market size and forecast, by type

7.4.6.2.Market size and forecast, by Application

7.4.6.3.Market size and forecast, by End-user

7.4.7.CHINA

7.4.7.1.Market size and forecast, by type

7.4.7.2.Market size and forecast, by Application

7.4.7.3.Market size and forecast, by End-user

7.4.8.JAPAN

7.4.8.1.Market size and forecast, by type

7.4.8.2.Market size and forecast, by Application

7.4.8.3.Market size and forecast, by End-user

7.4.10.KOREA

7.4.10.1.Market size and forecast, by type

7.4.10.2.Market size and forecast, by Application

7.4.10.3.Market size and forecast, by End-user

7.4.11.AUSTRALIA

7.4.11.1.Market size and forecast, by type

7.4.11.2.Market size and forecast, by Application

- 7.4.11.3. Market size and forecast, by End-user
- 7.4.12. REST OF ASIA-PACIFIC
 - 7.4.12.1. Market size and forecast, by type
 - 7.4.12.2. Market size and forecast, by Application
 - 7.4.12.3. Market size and forecast, by End-user
- 7.5. LAMEA
 - 7.5.1. Key market trends, growth factors, and opportunities
 - 7.5.2. Market size and forecast, by Type
 - 7.5.3. Market size and forecast, by Application
 - 7.5.4. Market size and forecast, by End-user
 - 7.5.5. Market analysis, by country
 - 7.5.6. BRAZIL
 - 7.5.6.1. Market size and forecast, by type
 - 7.5.6.2. Market size and forecast, by Application
 - 7.5.6.3. Market size and forecast, by End-user
 - 7.5.7. SAUDI ARABIA
 - 7.5.7.1. Market size and forecast, by type
 - 7.5.7.2. Market size and forecast, by Application
 - 7.5.7.3. Market size and forecast, by End-user
 - 7.5.8. SOUTH AFRICA
 - 7.5.8.1. Market size and forecast, by type
 - 7.5.8.2. Market size and forecast, by Application
 - 7.5.8.3. Market size and forecast, by End-user
 - 7.5.9. REST OF LAMEA
 - 7.5.9.1. Market size and forecast, by type
 - 7.5.9.2. Market size and forecast, by Application
 - 7.5.9.3. Market size and forecast, by End-user

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. INTRODUCTION
 - 8.1.1. MARKET PLAYER POSITIONING, 2019
- 8.2. TOP WINNING STRATEGIES
 - 8.2.1. Top winning strategies, by year
 - 8.2.2. Top winning strategies, by development
 - 8.2.3. Top winning strategies, by company
- 8.3. PRODUCT MAPPING OF TOP 10 PLAYER
- 8.4. COMPETITIVE HEATMAP
- 8.5. KEY DEVELOPMENTS

- 8.5.1.Expansions
- 8.5.2.Mergers and acquisition
- 8.5.3.Other developments

CHAPTER 9:COMPANY PROFILES:

9.1.OCSiAl

- 9.1.1.Company overview
- 9.1.2.Company snapshot
- 9.1.3.Product portfolio
- 9.1.4.Key strategic moves and developments

9.2.Jiangsu Tiannai Technology Co. Ltd.

- 9.2.1.Company overview
- 9.2.2.Company snapshot
- 9.2.3.Product portfolio

9.3.Cheap Tubes

- 9.3.1.Company overview
- 9.3.2.Company snapshot
- 9.3.3.Product portfolio

9.4.Arkema S.A.

- 9.4.1.Company overview
- 9.4.2.Company snapshot
- 9.4.3.Operating business segments
- 9.4.4.Product portfolio
- 9.4.5.Business performance

9.5.Nanocyl SA

- 9.5.1.Company overview
- 9.5.2.Company snapshot
- 9.5.3.Product portfolio

9.6.Hyperion Catalysis International

- 9.6.1.Company overview
- 9.6.2.Company snapshot
- 9.6.3.Product portfolio

9.7.Toray Industries Inc.

- 9.7.1.Company overview
- 9.7.2.Company snapshot
- 9.7.3.Operating business segments
- 9.7.4.Product portfolio
- 9.7.5.Business performance

- 9.8.Klean Industries Inc.
 - 9.8.1.Company overview
 - 9.8.2.Company snapshot
 - 9.8.3.Product portfolio
- 9.9.Futurecarbon GmbH
 - 9.9.1.Company overview
 - 9.9.2.Company snapshot
 - 9.9.3.Product portfolio
- 9.10.CHASM Advanced Materials Inc.
 - 9.10.1.Company overview
 - 9.10.2.Company snapshot
 - 9.10.3.Product portfolio
 - 9.10.4.Key strategic moves and developments
- 9.11.Nano-C
 - 9.11.1.Company overview
 - 9.11.2.Company snapshot
 - 9.11.3.Operating business segments
 - 9.11.4.Product portfolio
 - 9.11.5.Key strategic moves and developments
- 9.12.LG CHEM
 - 9.12.1.Company overview
 - 9.12.2.Company snapshot
 - 9.12.3.Operating business segments
 - 9.12.4.Product portfolio
 - 9.12.5.Business performance
 - 9.12.6.Key strategic moves and developments

List Of Tables

LIST OF TABLES

TABLE 01.GLOBAL CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 02.GLOBAL CARBON NANOTUBES MARKET, BY TYPE, 2019-2027
(\$MILLION)

TABLE 03.CARBON NANOTUBES MARKET FOR SINGLE-WALLED CARBON
NANOTUBES (SWCNT), BY REGION, 2019–2027 (TONS)

TABLE 04.CARBON NANOTUBES MARKET FOR SINGLE-WALLED CARBON
NANOTUBES (SWCNT), BY REGION, 2019–2027 (\$MILLION)

TABLE 05.CARBON NANOTUBES MARKET FOR MULTI-WALLED CARBON
NANOTUBES (MWCNT), BY REGION, 2019–2027 (TONS)

TABLE 06.CARBON NANOTUBES MARKET FOR MULTI-WALLED CARBON
NANOTUBES (MWCNT), BY REGION, 2019–2027 (\$MILLION)

TABLE 07.GLOBAL CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(TONS)

TABLE 08.CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(\$MILLION)

TABLE 09.CARBON NANOTUBES MARKET FOR STRUCTURAL POLYMER
COMPOSITES, BY REGION, 2019–2027 (TONS)

TABLE 10.CARBON NANOTUBES MARKET FOR STRUCTURAL POLYMER
COMPOSITES, BY REGION, 2019–2027 (\$MILLION)

TABLE 11.CARBON NANOTUBES MARKET FOR CONDUCTIVE POLYMER
COMPOSITES, BY REGION, 2019–2027 (TONS)

TABLE 12.CARBON NANOTUBES MARKET FOR CONDUCTIVE POLYMER
COMPOSITES, BY REGION, 2019–2027 (\$MILLION)

TABLE 13.CARBON NANOTUBES MARKET FOR CONDUCTIVE ADHESIVES, BY
REGION, 2019–2027 (TONS)

TABLE 14.CARBON NANOTUBES MARKET FOR CONDUCTIVE ADHESIVES, BY
REGION, 2019–2027 (\$MILLION)

TABLE 15.CARBON NANOTUBES MARKET FOR FIRE RETARDANT PLASTICS, BY
REGION, 2019–2027 (TONS)

TABLE 16.CARBON NANOTUBES MARKET FOR FIRE RETARDANT PLASTICS, BY
REGION, 2019–2027 (\$MILLION)

TABLE 17.CARBON NANOTUBES MARKET FOR METAL MATRIX COMPOSITES, BY
REGION, 2019–2027 (TONS)

TABLE 18.CARBON NANOTUBES MARKET FOR METAL MATRIX COMPOSITES, BY
REGION, 2019–2027 (\$MILLION)

TABLE 19.CARBON NANOTUBES MARKET FOR LI-ION BATTERY ELECTRODES, BY REGION, 2019–2027 (TONS)

TABLE 20.CARBON NANOTUBES MARKET FOR LI-ION BATTERY ELECTRODES, BY REGION, 2019–2027 (\$MILLION)

TABLE 21.CARBON NANOTUBES MARKET FOR OTHERS, BY REGION, 2019–2027 (TONS)

TABLE 22.CARBON NANOTUBES MARKET FOR OTHERS, BY REGION, 2019–2027 (\$MILLION)

TABLE 23.GLOBAL CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 24.GLOBAL CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (\$MILLION)

TABLE 25.CARBON NANOTUBES MARKET FOR ELECTRICALS & ELECTRONICS, BY REGION, 2019–2027 (TONS)

TABLE 26.CARBON NANOTUBES MARKET FOR ELECTRICALS & ELECTRONICS, BY REGION, 2019–2027 (\$MILLION)

TABLE 27.CARBON NANOTUBES MARKET FOR AEROSPACE & DEFENCE, BY REGION, 2019–2027 (TONS)

TABLE 28.CARBON NANOTUBES MARKET FOR AEROSPACE & DEFENCE, BY REGION, 2019–2027 (\$MILLION)

TABLE 29.CARBON NANOTUBES MARKET FOR ENERGY, BY REGION, 2019–2027 (TONS)

TABLE 30.CARBON NANOTUBES MARKET FOR ENERGY, BY REGION, 2019–2027 (\$MILLION)

TABLE 31.CARBON NANOTUBES MARKET FOR SPORTING GOODS, BY REGION, 2019–2027 (TONS)

TABLE 32.CARBON NANOTUBES MARKET FOR SPORTING GOODS, BY REGION, 2019–2027 (\$MILLION)

TABLE 33.CARBON NANOTUBES MARKET FOR AUTOMOTIVE, BY REGION, 2019–2027 (TONS)

TABLE 34.CARBON NANOTUBES MARKET FOR AUTOMOTIVE, BY REGION, 2019–2027 (\$MILLION)

TABLE 35.CARBON NANOTUBES MARKET FOR INDUSTRIAL, BY REGION, 2019–2027 (TONS)

TABLE 36.CARBON NANOTUBES MARKET FOR INDUSTRIAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 37.CARBON NANOTUBES MARKET FOR OTHERS, BY REGION, 2019–2027 (TONS)

TABLE 38.CARBON NANOTUBES MARKET FOR OTHERS, BY REGION, 2019–2027

(\$MILLION)

TABLE 39.GLOBAL CARBON NANOTUBES MARKET, BY REGION, 2019-2027

(TONS)

TABLE 40.GLOBAL CARBON NANOTUBES MARKET, BY REGION, 2019-2027

(\$MILLION)

TABLE 41.NORTH AMERICA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027

(TONS)

TABLE 42.NORTH AMERICA CARBON NANOTUBES, BY TYPE, 2019-2027

(\$MILLION)

TABLE 43.NORTH AMERICA CARBON NANOTUBES MARKET, BY APPLICATION,
2019-2027 (TONS)

TABLE 44.NORTH AMERICA CARBON NANOTUBES, BY TYPE, 2019-2027

(\$MILLION)

TABLE 45.NORTH AMERICA CARBON NANOTUBES MARKET, BY END-USER,
2019-2027 (TONS)

TABLE 46.NORTH AMERICA CARBON NANOTUBES, BY END-USER, 2019-2027

(\$MILLION)

TABLE 47.NORTH AMERICA CARBON NANOTUBES MARKET, BY COUNTRY,
2019-2027 (TONS)TABLE 48.NORTH AMERICA CARBON NANOTUBES MARKET, BY COUNTRY,
2019-2027 (\$MILLION)

TABLE 49.U.S. CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 50.U.S. CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 51.U.S. CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(TONS)

TABLE 52.U.S. CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 53.U.S. CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 54.U.S. CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 55.CANADA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 56.CANADA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 57.CANADA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(TONS)

TABLE 58.CANADA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 59.CANADA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027
(TONS)

TABLE 60.CANADA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 61.MEXICO CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 62.MEXICO CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 63.MEXICO CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027

(TONS)

TABLE 64.MEXICO CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 65.MEXICO CARBON NANOTUBES MARKET, BY END-USER, 2019-2027

(TONS)

TABLE 66.MEXICO CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 67.EUROPE CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 68.EUROPE CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 69.EUROPE CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027

(TONS)

TABLE 70.EUROPE CARBON NANOTUBES, BY APPLICATION, 2019-2027

(\$MILLION)

TABLE 71.EUROPE CARBON NANOTUBES MARKET, BY END-USER, 2019-2027

(TONS)

TABLE 72.EUROPE CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 73.EUROPE CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027

(TONS)

TABLE 74.EUROPE CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027

(\$MILLION)

TABLE 75.FRANCE CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 76.FRANCE CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 77.FRANCE CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027

(TONS)

TABLE 78.FRANCE CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 79.FRANCE CARBON NANOTUBES MARKET, BY END-USER, 2019-2027

(TONS)

TABLE 80.FRANCE CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 81.GERMANY CARBON NANOTUBES MARKET, BY TYPE, 2019-2027

(TONS)

TABLE 82.GERMANY CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 83.GERMANY CARBON NANOTUBES MARKET, BY APPLICATION,

2019-2027 (TONS)

TABLE 84.GERMANY CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 85.GERMANY CARBON NANOTUBES MARKET, BY END-USER, 2019-2027

(TONS)

TABLE 86.GERMANY CARBON NANOTUBES, BY END-USER, 2019-2027

(\$MILLION)

TABLE 87.UK CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 88.UK CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 89.UK CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027

(TONS)

TABLE 90.UK CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 91.UK CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 92.UK CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 93.SPAIN CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 94.SPAIN CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 95.SPAIN CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(TONS)

TABLE 96.SPAIN CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 97.SPAIN CARBON NANOTUBES MARKET, BY END-USER, 2019-2027
(TONS)

TABLE 98.SPAIN CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 99.ITALY CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 100.ITALY CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 101.ITALY CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027
(TONS)

TABLE 102.ITALY CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 103.ITALY CARBON NANOTUBES MARKET, BY END-USER, 2019-2027
(TONS)

TABLE 104.ITALY CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 105.REST OF EUROPE CARBON NANOTUBES MARKET, BY TYPE,
2019-2027 (TONS)

TABLE 106.REST OF EUROPE CARBON NANOTUBES, BY TYPE, 2019-2027
(\$MILLION)

TABLE 107.REST OF EUROPE CARBON NANOTUBES MARKET, BY APPLICATION,
2019-2027 (TONS)

TABLE 108.REST OF EUROPE CARBON NANOTUBES, BY APPLICATION,
2019-2027 (\$MILLION)

TABLE 109.REST OF EUROPE CARBON NANOTUBES MARKET, BY END-USER,
2019-2027 (TONS)

TABLE 110.REST OF EUROPE CARBON NANOTUBES, BY END-USER, 2019-2027
(\$MILLION)

TABLE 111.ASIA-PACIFIC CARBON NANOTUBES MARKET, BY TYPE, 2019-2027
(TONS)

TABLE 112.ASIA-PACIFIC CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 113.ASIA-PACIFIC CARBON NANOTUBES MARKET, BY APPLICATION,
2019-2027 (TONS)

TABLE 114.ASIA-PACIFIC CARBON NANOTUBES, BY APPLICATION, 2019-2027
(\$MILLION)

TABLE 115.ASIA-PACIFIC CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 116.ASIA-PACIFIC CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 117.ASIA-PACIFIC CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027 (TONS)

TABLE 118.ASIA-PACIFIC CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 119.INDIA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 120.INDIA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 121.INDIA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 122.INDIA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 123.INDIA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 124.INDIA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 125.CHINA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 126.CHINA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 127.CHINA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 128.CHINA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 129.CHINA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 130.CHINA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 131.JAPAN CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 132.JAPAN CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 133.JAPAN CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 134.JAPAN CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 135.JAPAN CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 136.JAPAN CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 137.KOREA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 138.KOREA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 139.KOREA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 140.KOREA CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 141.KOREA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 142.KOREA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 143.AUSTRALIA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 144.AUSTRALIA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 145.AUSTRALIA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 146.AUSTRALIA CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 147.AUSTRALIA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 148.AUSTRALIA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 149.REST OF ASIA-PACIFIC CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 150.REST OF ASIA-PACIFIC CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 151.REST OF ASIA-PACIFIC CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 152.REST OF ASIA-PACIFIC CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 153.REST OF ASIA-PACIFIC CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 154.REST OF ASIA-PACIFIC CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 155.LAMEA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 156.LAMEA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 157.LAMEA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 158.LAMEA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 159.LAMEA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 160.LAMEA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 161.LAMEA CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027 (TONS)

TABLE 162.LAMEA CARBON NANOTUBES MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 163.BRAZIL CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 164.BRAZIL CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 165.BRAZIL CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 166.BRAZIL CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 167.BRAZIL CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 168.BRAZIL CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 169.SAUDI ARABIA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 170.SAUDI ARABIA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 171.SAUDI ARABIA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 172.SAUDI ARABIA CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 173.SAUDI ARABIA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 174.SAUDI ARABIA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 175.SOUTH AFRICA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 176.SOUTH AFRICA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 177.SOUTH AFRICA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 178.SOUTH AFRICA CARBON NANOTUBES, BY APPLICATION, 2019-2027 (\$MILLION)

TABLE 179.SOUTH AFRICA CARBON NANOTUBES MARKET, BY END-USER, 2019-2027 (TONS)

TABLE 180.SOUTH AFRICA CARBON NANOTUBES, BY END-USER, 2019-2027 (\$MILLION)

TABLE 181.REST OF LAMEA CARBON NANOTUBES MARKET, BY TYPE, 2019-2027 (TONS)

TABLE 182.REST OF LAMEA CARBON NANOTUBES, BY TYPE, 2019-2027 (\$MILLION)

TABLE 183.REST OF LAMEA CARBON NANOTUBES MARKET, BY APPLICATION, 2019-2027 (TONS)

TABLE 184.REST OF LAMEA CARBON NANOTUBES, BY APPLICATION, 2019-2027

(\$MILLION)

TABLE 185.REST OF LAMEA CARBON NANOTUBES MARKET, BY END-USER,
2019-2027 (TONS)TABLE 186.REST OF LAMEA CARBON NANOTUBES, BY END-USER, 2019-2027
(\$MILLION)

TABLE 187.KEY EXPANSIONS (2016-2019)

TABLE 188.KEY MERGERS AND ACQUISITION (2016-2019)

TABLE 189.OTHER KEY DEVELOPMENTS (2016-2019)

TABLE 190.OCSIAL: COMPANY SNAPSHOT

TABLE 191.OCSIAL: PRODUCT PORTFOLIO

TABLE 192.OCSIAL: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 193.CNANO: COMPANY SNAPSHOT

TABLE 194.CNANO: PRODUCT PORTFOLIO

TABLE 195.CHEAP TUBES: COMPANY SNAPSHOT

TABLE 196.CHEAP TUBES: PRODUCT PORTFOLIO

TABLE 197.ARKEMA: COMPANY SNAPSHOT

TABLE 198.ARKEMA: OPERATING SEGMENTS

TABLE 199.ARKEMA: PRODUCT PORTFOLIO

TABLE 200.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 201.NANOCYL: COMPANY SNAPSHOT

TABLE 202.NANOCYL: PRODUCT PORTFOLIO

TABLE 203.HYPERION: COMPANY SNAPSHOT

TABLE 204.HYPERION: PRODUCT PORTFOLIO

TABLE 205.TORAY: COMPANY SNAPSHOT

TABLE 206.TORAY: OPERATING SEGMENTS

TABLE 207.TORAY: PRODUCT PORTFOLIO

TABLE 208.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 209.KLEAN: COMPANY SNAPSHOT

TABLE 210.KLEAN: PRODUCT PORTFOLIO

TABLE 211.FUTURECARBON: COMPANY SNAPSHOT

TABLE 212.FUTURECARBON: PRODUCT PORTFOLIO

TABLE 213.CHASM: COMPANY SNAPSHOT

TABLE 214.CHASM: PRODUCT PORTFOLIO

TABLE 215.CHASM:KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 216.NANO-C: COMPANY SNAPSHOT

TABLE 217.NANO-C: OPERATING SEGMENTS

TABLE 218.NANO-C: PRODUCT PORTFOLIO

TABLE 219.NANO-C:KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 220.LG CHEM: COMPANY SNAPSHOT

TABLE 221.LG CHEM: OPERATING SEGMENTS

TABLE 222.LG CHEM: PRODUCT PORTFOLIO

TABLE 223.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 224.LG CHEM:KEY STRATEGIC MOVES AND DEVELOPMENTS

List Of Figures

LIST OF FIGURES

FIGURE 01.GLOBAL CARBON NANOTUBES MARKET SNAPSHOT

FIGURE 02.GLOBAL CARBON NANOTUBES MARKET SEGMENTATION

FIGURE 03.TOP INVESTMENT POCKETS

FIGURE 04.BARGAINING POWER OF SUPPLIERS

FIGURE 05.BARGAINING POWER OF BUYERS

FIGURE 06.THREAT OF NEW ENTRANTS

FIGURE 07.THREAT OF SUBSTITUTES

FIGURE 08.COMPETITIVE RIVALRY

FIGURE 09.GLOBAL CARBON NANOTUBES MARKET DYNAMICS

FIGURE 10.VALUE CHAIN ANALYSIS

FIGURE 11.PATENT ANALYSIS, BY COUNTRY, 2017-2019

FIGURE 12.GLOBAL CARBON NANOTUBES MARKET, BY TYPE, 2019–2027
(\$MILILION)

FIGURE 13.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
SINGLE-WALLED CARBON NANOTUBES (SWCNT), BY COUNTRY, 2019 VS 2027
(\$MILLION)

FIGURE 14.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
MULTI-WALLED CARBON NANOTUBES (MWCNT), BY COUNTRY, 2019 VS 2027
(\$MILLION)

FIGURE 15.GLOBAL CARBON NANOTUBES MARKET, BY APPLICATION,
2019–2027 (\$MILILION)

FIGURE 16.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
STRUCTURAL POLYMER COMPOSITES, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 17.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
CONDUCTIVE POLYMER COMPOSITES, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 18.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
CONDUCTIVE ADHESIVES, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 19.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
FIRE RETARDANT PLASTICS, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 20.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
METAL MATRIX COMPOSITES, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 21.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR LI-
ION BATTERY ELECTRODES, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 22.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR
OTHERS, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 23.GLOBAL CARBON NANOTUBES MARKET, BY END-USER, 2019–2027 (\$MILILION)

FIGURE 24.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR ELECTRICALS & ELECTRONICS, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 25.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR AEROSPACE & DEFENCE, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 26.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR ENERGY, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 27.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR SPORTING GOODS, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 28.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR AUTOMOTIVE, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 29.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR INDUSTRIAL, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 30.COMPARATIVE ANALYSIS OF CARBON NANOTUBES MARKET FOR OTHERS, BY COUNTRY, 2019 VS 2027 (\$MILLION)

FIGURE 31.U.S. CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 32.CANADA CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 33.MEXICO CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 34.FRANCE CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 35.GERMANY CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 36.UK CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 37.SPAIN CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 38.ITALY CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 39.REST OF EUROPE CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 40.INDIA CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 41.CHINA CARBON NANOTUBES MARKET REVENUE, 2019–2027(\$MILLION)

FIGURE 42.JAP

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