

# **NORTH AMERICA CARBON NANOTUBES (CNT) MARKET FORECAST 2017-2024**

<https://marketpublishers.com/r/N8545D8E4ACEN.html>

Date: December 2017

Pages: 65

Price: US\$ 1,250.00 (Single User License)

ID: N8545D8E4ACEN

## **Abstracts**

### **KEY FINDINGS**

The North America CNT market is expected to grow at a CAGR of 22.94% during the forecast period of 2017-2024 and experience an increase in revenue from \$400 million in 2016 to \$1957 million by 2024. An increase in the R&D to boost carbon nanotube market, decrease in production cost, a rise in the production capacities and multiple applications across various sectors are some of the drivers for the growth of the market.

### **MARKET INSIGHTS**

On the basis of the end-user segmentation, the market is divided into four segments viz. electronics, automotive, aerospace /defense, and others. Due to the low density of CNT, the weight of aircraft and spaceship wiring is reduced by approximately 70%, and thus it is safe to say that the aerospace and defense is the fastest-growing sector of the CNT market. On the basis of product, the MWCNT equipment holds the largest share in the market as compared to the SWCNT. However, due to low cost and superior properties, the growth rate of SWCNT is predicted to increase during the forecast period. Although the market looks promising, it is facing some major issues such as difficulty in aligning CNT in chips, negative impact on the environment, efficiency problems, and other technological challenges which might restrict its future expansion.

### **COMPETITIVE INSIGHTS**

Major companies involved in extensive R&D for developing newer technologies for carbon nanotube synthesis and their application are Carbon Solutions, Nanoshel Llc, Arry International Group Limited, Grafen Chemical Industries Limited, Shenzhen SUSN

Sinotech New Materials, Future Carbon GmbH, Raymor Industries Inc, Hanwha Nanotech Corporation, Nanocyl Sa, Cheap Tubes Inc, and Nanothinx Sa.

## Contents

### **1. RESEARCH SCOPE**

- 1.1. STUDY GOALS
- 1.2. SCOPE OF THE MARKET STUDY
- 1.3. WHO WILL FIND THIS REPORT USEFUL?
- 1.4. STUDY AND FORECASTING YEARS

### **2. RESEARCH METHODOLOGY**

- 2.1. SOURCES OF DATA
  - 2.1.1. SECONDARY DATA
  - 2.1.2. PRIMARY DATA
- 2.2. TOP DOWN APPROACH
- 2.3. BOTTOM-UP APPROACH
- 2.4. DATA TRIANGULATION
- 2.5. ESTIMATION METHODOLOGY

### **3. EXECUTIVE SUMMARY**

- 3.1. MARKET SUMMARY
- 3.2. KEY FINDINGS
  - 3.2.1. ELECTRONICS INDUSTRY IS A POTENTIAL CONSUMER FOR CNT
  - 3.2.2. CHEMICAL, POLYMERS AND COMPOSITE MATERIALS TO RETAIN A HIGH DEMAND FOR CARBON NANOTUBES TILL 2024

### **4. MARKET DYNAMICS**

- 4.1. ETYMOLOGY OF THE CARBON NANOTUBES MARKET
- 4.2. BENEFITS AND LIMITATIONS OF CARBON NANOTUBES
- 4.3. MARKET DEFINITION AND SCOPE
- 4.4. MARKET DRIVERS
  - 4.4.1. POTENTIAL TO REPLACE FRAGILE & EXPENSIVE MATERIAL LIKE INDIUM-IN-COATED FILMS
  - 4.4.2. RISE IN PRODUCTION CAPACITIES
  - 4.4.3. MULTIPLE APPLICATIONS ACROSS SECTORS
  - 4.4.4. ADVANTAGES DUE TO PHYSICAL PROPERTIES
  - 4.4.5. TECHNOLOGICAL ADVANCEMENTS

#### **4.5. RESTRAINTS**

4.5.1. NEGATIVE IMPACT ON THE ENVIRONMENT

4.5.2. EFFICIENCY ISSUES

#### **4.6. OPPORTUNITIES**

4.6.1. DECREASING PRICES OF SWCNT

4.6.2. INCREASING DEMAND FROM EMERGING ECONOMIES

#### **4.7. CHALLENGES**

4.7.1. TECHNOLOGICAL CHALLENGES

4.7.2. DIFFICULTY IN ALIGNING CNT IN CHIPS

### **5. NORTH AMERICA CNT MARKET BY PRODUCT**

5.1. MWCNT

5.2. SWCNT

### **6. NORTH AMERICA CNT MARKET BY APPLICATION**

6.1. CHEMICALS, POLYMER, AND COMPOSITES MATERIAL

6.2. ELECTRONIC DEVICE AND SEMICONDUCTORS

6.3. ENERGY AND ENERGY-RELATED AREAS

6.4. OTHERS

### **7. NORTH AMERICA CNT MARKET BY END-USER**

7.1. ELECTRONICS

7.2. AUTOMOTIVE

7.3. AEROSPACE/DEFENCE

7.4. OTHERS

### **8. KEY ANALYTICS**

8.1. PORTER'S 5 FORCE MODEL

8.1.1. BARGAINING POWER OF BUYERS

8.1.2. INTENSITY OF COMPETITIVE RIVALRY

8.1.3. BARGAINING POWER OF SUPPLIERS

8.1.4. THREAT OF NEW ENTRANTS

8.1.5. THREAT OF SUBSTITUTES

8.2. OPPORTUNITY MATRIX FOR CARBON NANOTUBES MARKET

8.3. PESTEL ANALYSIS

#### 8.4. VENDOR LANDSCAPE

#### 8.5. LEGAL, POLICY & REGULATORY FRAMEWORK

#### 8.6. KEY BUYING CRITERIA

##### 8.6.1. PRICE

##### 8.6.2. AVAILABILITY

##### 8.6.3. TECHNOLOGY

##### 8.6.4. REGIONAL OPPORTUNITIES

##### 8.6.5. APPLICATION OPPORTUNITIES

### **9. GEOGRAPHICAL ANALYSIS**

#### 9.1. NORTH AMERICA

#### 9.2. US

#### 9.3. CANADA

### **10. COMPETITIVE LANDSCAPE**

#### 10.1. MARKET SHARE ANALYSIS

#### 10.2. RECENT DEVELOPMENT

#### 10.3. COMPANY PROFILE

##### 10.3.1. ARKEMA SA

###### 10.3.1.1. OVERVIEW

###### 10.3.1.2. PRODUCT PORTFOLIO

###### 10.3.1.3. SCOT ANALYSIS

###### 10.3.1.4. STRATEGIC INITIATIVE

##### 10.3.2. NANOCYL SA

###### 10.3.2.1. OVERVIEW

###### 10.3.2.2. PRODUCT PORTFOLIO

###### 10.3.2.3. SCOT ANALYSIS

###### 10.3.2.4. STRATEGIC INITIATIVE

##### 10.3.3. CHEAP TUBES INC.

###### 10.3.3.1. OVERVIEW

###### 10.3.3.2. PRODUCT PORTFOLIO

###### 10.3.3.3. SCOT ANALYSIS

##### 10.3.4. NANOTHINX SA

###### 10.3.4.1. OVERVIEW

###### 10.3.4.2. PRODUCT PORTFOLIO

###### 10.3.4.3. SCOT ANALYSIS

##### 10.3.5. HYPERION CATALYSIS INTERNATIONAL INC

- 10.3.5.1. OVERVIEW
- 10.3.5.2. PRODUCT PORTFOLIO
- 10.3.5.3. SCOT ANALYSIS
- 10.3.6. KLEAN COMMODITIES
  - 10.3.6.1. OVERVIEW
  - 10.3.6.2. PRODUCT PORTFOLIO
  - 10.3.6.3. SCOT ANALYSIS
- 10.3.7. FUTURE CARBON GMBH
  - 10.3.7.1. OVERVIEW
  - 10.3.7.2. PRODUCT PORTFOLIO
  - 10.3.7.3. SCOT ANALYSIS
- 10.3.8. RAYMOR INDUSTRIES INC
  - 10.3.8.1. OVERVIEW
  - 10.3.8.2. PRODUCT PORTFOLIO
  - 10.3.8.3. SCOT ANALYSIS
  - 10.3.8.4. STRATEGIC INITIATIVE
- 10.3.9. HANWHA NANOTECH CORPORATION
  - 10.3.9.1. OVERVIEW
  - 10.3.9.2. PRODUCT PORTFOLIO
  - 10.3.9.3. SCOT ANALYSIS
- 10.3.10. KOREA KUMHO PETROCHEMICAL COMPANY LTD
  - 10.3.10.1. OVERVIEW
  - 10.3.10.2. PRODUCT PORTFOLIO
  - 10.3.10.3. SCOT ANALYSIS
- 10.3.11. SHOWA DENKO K.K.
  - 10.3.11.1. OVERVIEW
  - 10.3.11.2. PRODUCT PORTFOLIO
  - 10.3.11.3. SCOT ANALYSIS
  - 10.3.11.4. STRATEGIC INITIATIVE
- 10.3.12. CNANO TECHNOLOGY LIMITED
  - 10.3.12.1. OVERVIEW
  - 10.3.12.2. PRODUCT PORTFOLIO
  - 10.3.12.3. SCOT ANALYSIS
- 10.3.13. CARBON SOLUTIONS
  - 10.3.13.1. OVERVIEW
  - 10.3.13.2. PRODUCT PORTFOLIO
  - 10.3.13.3. SCOT ANALYSIS
  - 10.3.13.4. STRATEGIC INITIATIVE
- 10.3.14. NANOSHEL LLC

- 10.3.14.1. OVERVIEW
- 10.3.14.2. PRODUCT PORTFOLIO
- 10.3.14.3. SCOT ANALYSIS
- 10.3.15. ARRY INTERNATIONAL GROUP LIMITED
  - 10.3.15.1. OVERVIEW
  - 10.3.15.2. PRODUCT BENCHMARKING
  - 10.3.15.3. SCOT ANALYSIS
- 10.3.16. GRAFEN CHEMICAL INDUSTRIES LIMITED
  - 10.3.16.1. OVERVIEW
  - 10.3.16.2. PRODUCT PORTFOLIO
  - 10.3.16.3. SCOT ANALYSIS
  - 10.3.16.4. STRATEGIC INITIATIVE
- 10.3.17. SHENZHEN SUSN SINOTECH NEW MATERIALS CO. LTD.
  - 10.3.17.1. OVERVIEW

## List Of Tables

### LIST OF TABLES

Table 1 NORTH AMERICA CARBON NANOTUBES MARKET BY COUNTRY  
2017-2024 (\$ MILLION)

Table 2 BENEFITS AND LIMITATIONS OF CARBON NANOTUBES

Table 3 NORTH AMERICA CNT MARKET BY PRODUCT 2017-2024 (\$ MILLION)

Table 4 NORTH AMERICA CNT MARKET BY APPLICATION 2017-2024 (\$ MILLION)

Table 5 NORTH AMERICA CNT MARKET BY END-USER 2017-2024 (\$ MILLION)



## List Of Figures

### LIST OF FIGURES

Figure 1 NORTH AMERICA MWCNT MARKET 2017-2024 (\$ MILLION)

Figure 2 NORTH AMERICA SWCNT MARKET 2017-2024 (\$ MILLION)

Figure 3 NORTH AMERICA CHEMICALS, POLYMER, AND COMPOSITES MATERIAL MARKET 2017-2024 (\$ MILLION)

Figure 4 NORTH AMERICA ELECTRONIC DEVICE AND SEMICONDUCTORS MARKET 2017-2024 (\$ MILLION)

Figure 5 NORTH AMERICA ENERGY AND ENERGY RELATED AREAS MARKET 2017-2024 (\$ MILLION)

Figure 6 NORTH AMERICA OTHER APPLICATION MARKET 2017-2024 (\$ MILLION)

Figure 7 NORTH AMERICA ELECTRONICS MARKET 2017-2024 (\$ MILLION)

Figure 8 NORTH AMERICA AUTOMOTIVE MARKET 2017-2024 (\$ MILLION)

Figure 9 NORTH AMERICA AEROSPACE/DEFENCE MARKET 2017-2024 (\$ MILLION)

Figure 10 NORTH AMERICA OTHER END USERS MARKET 2017-2024 (\$ MILLION)

Figure 11 INVESTMENT PROPOSITION FOR CNT MARKET BY COUNTRY

Figure 12 INVESTMENT PROPOSITION FOR CNT MARKET BY APPLICATION

Figure 13 U.S CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

Figure 14 CANADA CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

## I would like to order

Product name: NORTH AMERICA CARBON NANOTUBES (CNT) MARKET FORECAST 2017-2024

Product link: <https://marketpublishers.com/r/N8545D8E4ACEN.html>

Price: US\$ 1,250.00 (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/N8545D8E4ACEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970