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Global and China Graphene Industry Report, 2015-2018

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Abstracts

Graphene, a “miracle material” discovered in 2004, has always drawn people's attention, and is still in the critical stage of R&D and industrialization with the whole industry chain having not fully taken shape.

Global graphene market size is only USD24.4 million in 2015, and most of demand comes from semiconductor electronics, lithium battery and composite materials industries, which seize a combined 60.1% share. As progress is made in the industrialized application of graphene, global graphene market size is expected to hit USD65 million in 2018.

China is a late starter in graphene research, but has achieved some results driven by policies on new materials industry. Meanwhile, China, through the setup of China Innovation Alliance of the Graphene Industry, establishes 5 graphene industrial parks (Changzhou, Wuxi, Ningbo, Qingdao, and Chongqing) to accelerate the industrialization of graphene. China is the country with the most graphene patents in the world, having cumulatively applied for 7,900 patents by the end of Mar 2015.

Propelled by the achievements and industrialization advancement, it is expected that the Chinese graphene market will preliminarily take shape in 2018 with a market value of around RMB200 million.

Driven by favorable policies and being bullish about graphene prospects, Chinese manufacturers speed up their presence in graphene industry via capital increase for capacity expansion and active cooperation with colleges & universities and downstream producers. The most representative companies are The Sixth Element (Changzhou) Materials Technology, 2D Carbon (Changzhou) Tech, Beijing Moxi Holdings, and

Fangda Carbon New Material.

The Sixth Element (Changzhou) Materials Technology: The current 100 tons/a graphite/graphene oxide/graphene powder production line is planned to be boosted to 1kt/a in 2016. The company acquired a 100% stake in Wuxi Graphene Film Co., Ltd. and set up a joint venture- Changzhou Boke Graphene Testing Technology Co., Ltd. in 2015.

Beijing Moxi Holding: Two graphene subsidiaries (Ningbo and Chongqing), with the former boasting capacity of 2 million m2/a graphene-coated foil and 300 tons/a graphene nanoplatelet and the latter 1 million m2/a graphene conductive film.

Fangda Carbon New Material: Enhances graphene research and production capability via cooperation with colleges & universities and research institutes (e.g. nuclear graphite research center jointly established with the Institute of Nuclear and New Energy Technology, Tsinghua University). The company was capable of producing 10 kilograms of graphene end products daily by the end of Oct 2015.

Der Future Science & Technology: Started to fully get involved in graphene industry in 2014 via raw material strategy (establishment of Der Graphene Mining), technology R&D strategy (cooperation with Wuhan University and Xiamen University), platform strategy (setup of Der graphene industry fund), and industrialization strategy (proposed construction of graphene industrial park).

Global and China Graphene Industry Report, 2015-2018 highlights the followings:

Development of upstream and downstream industries of graphene, including graphite, graphene device processing, etc.;

Global graphene industry (market size, industrialization development, R&D patent, downstream market segments (lithium battery, supercapacitor, transparent electrode), etc.);

Graphene industry in China (policy environment, industrialization development, R&D patent, layout of enterprises, downstream market segments, etc.);

Operation, graphene business, etc. of 21 global and 10 Chinese graphene companies.

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Contents

1 OVERVIEW OF GRAPHENE INDUSTRY

1.1 Definition
1.2 Preparation Method
1.3 Industry Chain
1.4 Applications
  1.4.1 Integrated Circuit
  1.4.2 Sensor
  1.4.3 Transistor
  1.4.4 Transparent Electrode
  1.4.5 Sea Water Desalination
  1.4.6 Supercapacitor

2 OVERVIEW OF UPSTREAM AND DOWNSTREAM INDUSTRIES

2.1 Graphite
2.2 Graphene Device Processing

3 DEVELOPMENT OF GLOBAL GRAPHENE INDUSTRY

3.1 Overview
3.2 Industrialization Prospects
3.3 Patent Development of Graphene
3.4 Market Segments
  3.4.1 Lithium Battery
  3.4.2 Supercapacitor
  3.4.3 Transparent Electrode

4 DEVELOPMENT OF CHINA GRAPHENE INDUSTRY

4.1 Overview
4.2 Policy Environment
4.3 Industrialization Development
  4.3.1 Industry-University-Research Cooperation
  4.3.2 Industrial Park
  4.3.3 Patent
4.4 Enterprise Layout

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4.5 Market Segments
4.5.1 Lithium Battery
4.5.2 Supercapacitor
4.5.3 Transparent Electrode
4.5.4 Monocrystalline Silicon

5 MAJOR GLOBAL GRAPHENE PRODUCTION ENTERPRISES

5.1 Northern Graphite
5.1.1 Profile
5.1.2 Operation
5.1.3 Graphene Business
5.2 CVD
5.2.1 Profile
5.2.2 Operation
5.2.3 Revenue Structure
5.2.4 Graphene Business
5.3 Focus Graphite
5.3.1 Profile
5.3.2 Operation
5.3.3 Graphene Business
5.4 Lomiko Metals
5.4.1 Profile
5.4.2 Operation
5.4.3 Graphene Business
5.5 Applied Graphene Materials
5.5.1 Profile
5.5.2 Operation
5.5.3 Graphene Business
5.6 Graphene NanoChem Plc
5.6.1 Profile
5.6.2 Operation
5.6.3 Graphene Business
5.7 Haydale Graphene Industries
5.7.1 Profile
5.7.2 Operation
5.7.3 Revenue Structure
5.7.4 Graphene Business
5.8 Cientifica Plc

5.8.1 Profile
5.8.2 Operation
5.8.3 Graphene Business
5.9 Other Enterprises
5.9.1 Graphene Laboratories
5.9.2 Graphenea
5.9.3 Graphene Square
5.9.4 Grafoid
5.9.5 XG Sciences Inc
5.9.6 BGT Materials Limited
5.9.7 Angstron Materials
5.9.8 Graphenano
5.9.10 Vorbeck Materials
5.9.11 Cambridge Nanosystems
5.9.12 Graphene Frontiers
5.9.13 Graphene Platform Corp

6 MAJOR CHINESE GRAPHENE PRODUCTION ENTERPRISES

6.1 Fangda Carbon New Material Co., Ltd (600516)
6.1.1 Profile
6.1.2 Operation
6.1.3 Revenue Structure
6.1.4 Gross Margin
6.1.5 R&D and Projects under Construction
6.1.6 Graphene Business
6.1.7 Prospects
6.2 Der Future Science & Technology Holding Group Co., Ltd. (002631)
6.2.1 Profile
6.2.2 Operation
6.2.3 Revenue Structure
6.2.4 Gross Margin
6.2.5 R&D and Projects under Construction
6.2.6 Graphene Business
6.2.7 Prospects
6.3 Jiangsu Kangde Xin Composite Material Co.,Ltd. (002450)
6.3.1 Profile
6.3.2 Operation
6.3.3 Revenue Structure

6.3.4 Gross Margin
6.3.5 R&D and Projects under Construction
6.3.6 Graphene Business
6.3.7 Prospects
6.4 Xiamen Knano Graphene Technology Corporation Limited
6.4.1 Profile
6.4.2 Operation
6.4.3 Graphene Business
6.5 Nanjing XFNANO Materials Tech Co.,Ltd
6.5.1 Profile
6.5.2 Graphene Business
6.6 The Sixth Element (Changzhou) Materials Technology Co., Ltd.
6.6.1 Profile
6.6.2 Operation
6.6.3 Revenue Structure
6.6.4 Graphene Business
6.7 2D Carbon (Changzhou) Tech Co., Ltd.
6.7.1 Profile
6.7.2 Operation
6.7.3 Revenue Structure
6.7.4 R&D
6.7.5 Graphene Business
6.8 Nanjing JCNANA Tech Co., Ltd.
6.8.1 Profile
6.8.2 Graphene Business
6.9 Tianjin Plannano Technology Co., Ltd.
6.9.1 Profile
6.9.2 Graphene Business
6.10 Beijing Moxi Holdings Group
6.10.1 Profile
6.10.2 Ningbo Morsh Technology
6.10.3 Chongqing Morsh Technology

7 SUMMARY AND FORECAST

7.1 Summary
7.2 Forecast

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Selected Charts

SELECTED CHARTS

Four Preparation Methods of Graphene
Graphene Industry Chain
Graphite Output and Reserves in Major Countries/Regions, 2012-2014
Graphene Price, 2004-2015
Major Global Graphene Device Processors
Global Graphene Demand Structure by Industry, 2015
Global Graphene Market Size, 2012-2020E
Process of Graphene Industrialization
Graphene-related R&D Projects and Sponsorship in Foreign Countries
Major Global Graphene Preparation Enterprises
Global Graphene Patent Applications, 1994-2015
Global Top10 Graphene Patent Applicants by the end of Mar 2015
Global Lithium Battery Market Size, 2012-2018E
Global Demand for Lithium Battery Anode Materials, 2010-2018E
Major Progress in Application of Graphene in Supercapacitor
Global Supercapacitor Market Size, 2014-2018E
Major Progress in Application of Graphene in Touch Screen
Global Touch Panel Shipments, 2012-2018E
Global LCD Shipments, 2010-2018E
Main Policies on Graphene in China, 2012-2015
Main Graphene Industrial Parks in China
Number of Graphene Patent Applied for and Published, 2001-2015
Applied Technologies of Graphene Patents in China, 2015
Graphene Business of Major Chinese Producers
Lithium Battery Output and YoY Growth in China, 2009-2015
Chinese Lithium Battery Market Size and YoY Growth, 2009-2015
Market Share of Main Lithium Battery Anode Materials in China
Lithium Battery Anode Materials Shipments and Graphene Demand in China, 2014-2018E
Chinese Supercapacitor Market Size and YoY Growth, 2012-2018E
Chinese Supercapacitor Market Size by Product, 2006-2013
Size of Market for Graphene for Supercapacitor in China, 2015-2018E
China’s Touch Panel Shipments by Product, 2010-2014
China’s LCD TV Shipments, 2008-2015
Chinese IC Market Size, 2006-2015

IC Cost Structure by Product, 2014
Silicon Wafer Prices by Product in China, Jan 2015-Oct 2015
Size of Market for Graphene for IC in China, 2015-2018E
Net Loss of Northern Graphite, 2010-2015
Revenue and Net Income of CVD Equipment, 2010-2015
Revenue Structure of CVD Equipment by Business, 2013-2015
Operating Costs and Net Loss of Focus Graphite, FY2010-FY2015
Operating Costs of Lomiko Metals, 2010-2015
3D Graphene Patents of Lomiko Metals
Graphene Development of Lomiko Metals, 2015
Development of Graphene ESD
Graphene Parks of Lomiko Metals
Revenue and Net Income of Applied Graphene Materials, FY2011-FY2015
Customers of Applied Graphene Materials
Development Goals of Applied Graphene Materials, 2015-2016
Revenue and Net Income of Graphene Nanochem PLC, 2011-2015
Total Revenue and Net Loss of Haydale, FY2011-FY2015
Operating Revenue Structure of Haydale by Region, FY2014-FY2015
Revenue and Net Income of Cientifica, FY2011-FY2013
Investment Highlights of Graphene 3D Lab by the end of Jun 2015
Development Planning of Graphene 3D Lab
Major Customers of Graphene Square
Capacity of Fangda Carbon New Material by Product, 2015
Revenue and Net Income of Fangda Carbon New Material, 2010-2015
Operating Revenue Structure of Fangda Carbon New Material by Product, 2010-2015
Revenue Structure of Fangda Carbon New Material by Region, 2010-2015
Gross Margin of Fangda Carbon New Material by Product, 2009-2015
R&D Costs and % of Total Revenue of Fangda Carbon New Material, 2011-2015
Revenue and Net Income of Fangda Carbon New Material, 2014-2018E
Revenue and Net Income of Der Future Science & Technology, 2012-2015
Operating Revenue Structure of Der Future Science & Technology by Region, 2014-2015
Gross Margin of Der Future Science & Technology, 2011-2015
R&D Costs and % of Total Revenue of Der Future Science & Technology, 2013-2015
Key Projects Proposed/under Construction of Der Future Science & Technology, 2015
Revenue and Net Income of Der Future Science & Technology, 2014-2018E
Revenue and Net Income of Jiangsu Kangde Xin Composite Material
Operating Revenue Structure of Jiangsu Kangde Xin Composite Material by Product, 2013-2015

Operating Revenue Structure of Jiangsu Kangde Xin Composite Material by Region, 2010-2015
Gross Margin of Jiangsu Kangde Xin Composite Material, 2011-2015
R&D Costs and % of Total Revenue of Jiangsu Kangde Xin Composite Material, 2011-2015
Revenue and Net Income of Jiangsu Kangde Xin Composite Material, 2014-2018E
Main Products and Specifications of Xiamen Knano Graphene Technology
Revenue and Net Income of Xiamen Knano Graphene Technology, 2012-2015
Operating Costs and Gross Margin of Xiamen Knano Graphene Technology, 2012-2013
Graphene Patents of Xiamen Knano Graphene Technology
Graphene Products and Specifications of Nanjing XFNANO Materials Tech
Revenue and Net Income of The Sixth Element (Changzhou) Materials Technology, 2012-2015
Revenue of The Sixth Element (Changzhou) Materials Technology by Product, 2013-2014
Graphene Products and Applications of The Sixth Element (Changzhou) Materials Technology
Revenue and Net Income of 2D Carbon (Changzhou) Tech, 2013-2015
Revenue of 2D Carbon (Changzhou) Tech by Product, 2013-2015
R&D Costs and % of Total Revenue of 2D Carbon (Changzhou) Tech, 2013-2015
Graphene Transparent Film Capacity and Sales of 2D Carbon (Changzhou) Tech, 2013-2015
Data on PET-based Graphene Films of 2D Carbon (Changzhou) Tech
Main Graphene Products of Nanjing JCNANO Tech
Main Graphene Products of Tianjin Plannano Technology
Revenue and Net Income of Ningbo Morsh Technology, 2013-2015
Main Graphene Products of Ningbo Morsh Technology
Graphene Projects and Capacity of Major Producers in China
Global Graphene Demand by Application, 2011-2020E
China Graphene Market Size, 2015-2018E

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