

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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