

Future Composite Materials Need for Global Wind Energy Market 2014–2019

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Abstracts

According to Lucintel, total worldwide composite materials consumption in wind energy market is expected to witness significant decline in 2013 driven by reduced market for wind turbines in the US, India and other countries. The market is expected to recover during next five years (2014-2019), but with a slower pace. Wind energy market is getting affected by various factors such as reduced government support and incentives, decline in the prices of solar photovoltaic, grid connectivity issues and others.

The composite materials market for wind application includes various raw materials, such as polyester resin, epoxy resin, glass fiber, carbon fiber, adhesive, coating, and core materials.

Lucintel, a leading global management consulting and market research firm, has conducted a detail analysis on the future needs of composite materials for wind energy market and presents its findings in “Future Composite Materials Needs for Global Wind Energy Market 2014-2019”. As per the study, the composite materials market in wind applications is expected to be an attractive market in the future as wind energy capacity installation would grow globally. European and US based material suppliers are likely to face threat from new suppliers of China and other nations. Material suppliers would have good opportunity in this growth market – working with new and existing blade manufacturers.

Although composites are gaining popularity in wind energy market but technological changes are creating new set of challenges. Some of the key challenges are achieving adequate stiffness to prevent excessive blade deflection, preventing buckling failure, and ensuring adequate fatigue life under variable wind loading conditions. To solve these challenges, blade manufacturers have started using high performance materials

such as carbon fiber but carbon fiber is eight to 10 times expensive than glass fiber which hinders its extensive use in turbine blades. During the forecast period, average cost of composite materials would increase as more carbon fiber and improved resin formulations will be adopted by blade manufacturers.

Wind energy industry is passing through uncertainties which create a challenge for the composite material suppliers. As of current data, the US market seems to be busted in the year 2013 due to inconsistency in government support and incentives among other factors. Huge layoff of approximately 3,200 employees in 2012 by leading players in the US wind energy market reflects declining confidence of industry players. India wind energy market is also suffering with policies inconsistency affecting the new capacity installations. China wind energy installation is losing its attractiveness considering a flat market in 2013 but significant investments towards grid connectivity promises gradual improvement in the market in the coming years.

This detailed research report contains the wind energy market analysis, market analysis for composites in wind industry, trends in wind blade technology, current and future resin and reinforcement materials needs, core materials in wind applications and many other elements, all of which can help you make confident business decisions in this globally competitive marketplace.

This unique report from Lucintel will provide you with valuable information, insights, and tools needed to identify new growth opportunities and operate your business successfully in this market. This report will save hundreds of hours of your own personal research time and will significantly benefit you in expanding your business in this market. In today's stringent economy, you need every advantage that you can find.

Features of This Report:

To make business, investment, and strategic decisions, you need timely, useful information. This market report fulfills this core need and is an indispensable reference guide for multinational materials suppliers, product manufacturers, investors, executives, distributors, and many more that operate in this market.

Some of the features of "Future Composite Materials Need for Global Wind Energy Market: 2014–2019" include:

Analysis of competitive intensity of the industry based on Porter's Five Forces model which helps to understand the competitive position of industry players

Global composite materials market intelligence with special emphasis on wind energy market

Market size in terms of value and volume by material type, market size trend (2008-2013) and forecast (2014-2019) for key market segments that are useful to make major investment decisions

Regional analysis provides composite materials in global wind energy market breakdown of key regions of North America, Europe, Asia Pacific, and Rest of the World in terms of value and volume

Competitive landscape, emerging trends, unmet needs, market drivers and growth opportunity analysis provided helps to ascertain a sound investment decision

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