

# ==== MATERIALS TECHNOLOGY ====

## ==== PUBLICATIONS ====

A major in-depth Market Report on the Carbon Fibre Industry....

## THE CARBON FIBRE INDUSTRY WORLDWIDE 2011-2020: AN EVALUATION OF CURRENT MARKETS AND FUTURE SUPPLY AND DEMAND

By Tony Roberts

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### The report provides information on:

- Global sales of carbon fibre reinforced plastics (CFRPs) are estimated to be \$16.1 billion in 2011, and are forecast to reach \$28.2 billion in 2015 and \$48.7 billion by 2020
- The global demand for carbon fibre tow in 2011 is estimated to be 46,000 tonnes, and is forecast to rise to 140,000 tonnes by 2020
- Sales of carbon fibre tow (small tow and large tow) will increase from \$1.6 billion in 2011 to \$4.5 billion in 2020
- Large tow demand is forecast to grow from 38% of all tow types in 2011 to 45% by 2020
- The global end-use demand for carbon fibre in 2011 is: aerospace 17%, industrial (including wind energy and automotive) 67%, and sports goods 16%. The report forecasts yearly demand by end-use markets to 2020
- By 2020, the two major industrial applications – wind energy and automotive – will account for 46% of the world's total demand for carbon fibre. The wind energy market is set to increase from 10,440 tonnes of carbon fibre in 2011 to 54,270 tonnes by 2020
- Carbon fibre demand (buy weight) in the aerospace/defence sector is forecast to grow from 7,694 tonnes in 2011 to 18,462 tonnes by 2020
- By 2020, Japan will produce 25% of the world's carbon fibre, USA 28%, Europe 28%, China 9% and the Rest of the World 10%
- Plant capacity increases announced by carbon fibre manufacturers will result in nameplate capacity being increased from 102,000 tonnes in 2011 to 129,000 tonnes in 2015. The report highlights the potential for this capacity to increase to 185,000 tonnes by 2020
- Includes in-depth profiles of all the major carbon fibre producers worldwide, including history, takeovers/mergers, plant expansions, financial results, and data on product ranges
- The report is over 400 pages long and includes over 270 tables/figures giving plant capacities and output, consumption by individual key markets, and forecast supply/demand for carbon fibre and CFRP to 2020

**AVAILABLE NOW** *The Carbon Fibre Industry Worldwide 2011-2020: An Evaluation of Current Markets and Future Supply and Demand* is an in-depth market report on the rapidly growing carbon fibre industry and its global markets.

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All of the world's major carbon fibre manufacturers are featured in the report, along with new players entering the business, with detailed information given on plant capacities, production outputs, future expansion plans, product ranges and full financial results. The role that China will play in the next decade is fully assessed in the report.

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### ABOUT THE AUTHOR – TONY ROBERTS

Anthony (Tony) Roberts has over 40 years' experience in the carbon fibre and advanced composites industry sectors. From the 1970s to the 1990s, he was with Courtaulds Grafil, Coventry, UK, developing applications for carbon fibres in the aerospace, industrial and sports goods sectors. In this capacity, he spent time in Europe and South East Asia, developing a comprehensive understanding of the global markets for carbon fibre. He subsequently moved to Mitsubishi Rayon Co Ltd, working in the USA as Sales and Marketing Director for subsidiary companies Grafil Inc and Newport Adhesives and Composites Inc.

From 2005 to the present, Roberts has served the industry as an independent consultant. He has prepared a number of studies on the carbon fibre industry, including two individual client studies and two global market reports published by Materials Technology Publications: *The Carbon Fibre Industry: Global Strategic Market Evaluation* (2006) and *The Carbon Fibre Industry Worldwide* (2008).

Roberts has a unique insight into the important growing carbon fibre industry in developing regions, particularly China. Over the last three and a half years, he has spent extended periods in China as a consultant to the carbon fibre industry, gathering data on manufacturers and evaluating market trends.