



Turn your Visions into Reality – With Our Unique Product Portfolio and Leading Know-How

Optimum Solutions for Your Wind Energy Requirements

Putting ideas into practice demands more than just products: it requires partners who think ahead. The Carbon Fibers & Composites Business Unit of the SGL Group is one of the world's leading innovators of high-tech composite materials based on carbon and glass fibers. We provide our customers with a full range of high-performance materials with extraordinary properties.

Yet we have even more to offer: by consistently expanding our research and development efforts, we now have unique know-how and many years of experience at our disposal – ideal for custom-tailored solutions in wind turbine design, and optimally suited to meet any and all of your specific challenges. That is what we call partnership.

Carbon Fibers & Composites

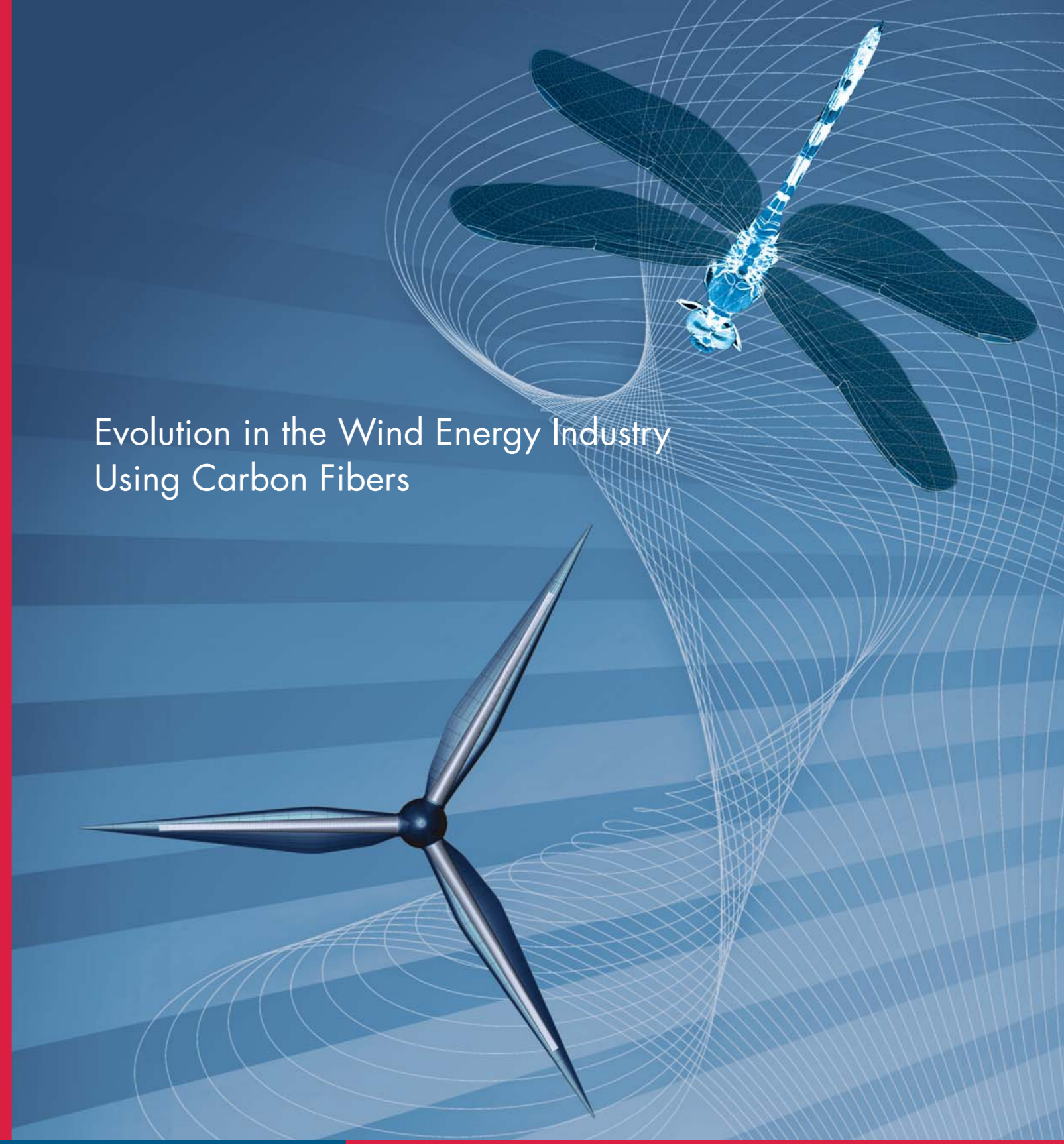
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This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our "General Conditions of Sale".



Evolution in the Wind Energy Industry Using Carbon Fibers



Broad Base. Best Solutions.



Evolution in Materials Development: More Variety for More Possibilities.



Insect wings are miniature masterpieces incredibly light and flexible, yet capable of peak performance thanks to their extreme stability and resilience. Using complex structures made from naturally occurring super-materials such as chitin, nature creates properties that are also of vital importance in the design of wind turbine rotors.

Whether modern materials such as carbon and glass fibers can be used to their full advantage depends largely on how they are processed. SGL Group is the only company to master all types of production processes, manufacturing everything from carbon fibers to composites. Our unique expertise allows us to tap the full potential of new materials. We offer solutions that fully meet all our customers' expectations – and give them the competitive edge they need.



In order to address the special challenges that arise in the wind energy industry, we develop and supply innovative products made from carbon and glass fibers, combining maximum tensile strength and stiffness with minimum weight. These special products can be used to develop a new generation of rotor blades that set a new benchmark in performance yield, longevity and efficiency. Based on our comprehensive material and technology competencies, our aim is to become a global partner of the wind energy industry, particularly for the future development and design of wind turbine rotor blades.

Our Product Portfolio: Tailored Materials to Serve Your Blade Design Requirements

Carbon and Glass Fibers – Materials for Tomorrow's Ideas

SGL Group already offers the widest range of carbon and glass fiber materials on the market. Our unique variety of processing options means we can tailor our material combinations to perfectly suit your design wishes. But there is more to the evolution: our Technology & Innovation department is constantly working on new technologies and materials that will also meet future demand for quality, stability and design – allowing you to turn your ideas into reality using the best possible materials.

Carbon Fibers



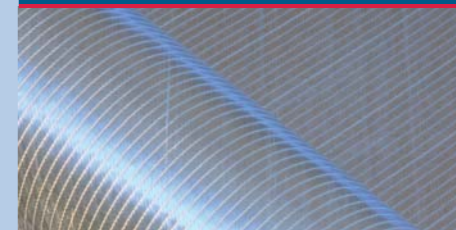
Engineered carbon fiber grades designed to meet even the most demanding specifications in the wind energy industry.

Prepregs



Specially developed technology for producing prepreg materials featuring excellent performance and minimum weight. Properties tailored to meet individual customer needs and process requirements.

Multiaxial Fabrics



The multiaxial arrangement of the fibers ensures increased stability while minimizing the amount of material needed. It also offers a high degree of component design flexibility and simplifies component production.

Braidings and Preforms



This new braiding technology is employed in the automated production of near-net-shape textile structures, replacing manual labor which is costly and hard to reproduce.

Your Success is Our Challenge. Today and Tomorrow

More and more companies in trendsetting industries are putting their trust in us, because SGL Group stands for more than just innovative products and leading know-how. Our comprehensive production capacities, global presence and efficient logistics system enable us to reliably meet even the most demanding delivery requirements with assured quality. Our aim is your satisfaction and success.

