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## **AGY's S-1 Glass™ Rovings Approved For Wind Turbine Blade Applications**

AIKEN, SC, USA - (September 3, 2009) - AGY, a leading global producer of glass fiber yarns and high-strength glass fiber reinforcements, announces the approval of its new S-1 Glass™ high performance glass rovings for use in wind turbine blade applications by Germanischer Lloyd, the leading international certification body in the wind-energy sector. The S-1 Glass fibers allow new levels of mechanical properties to be developed in the high strength areas within a wind turbine blade structure.

AGY developed S-1 Glass in response to the need for higher performance glass fiber at a lower cost. "S-1 Glass bridges the cost and performance gap between E-Glass and higher performance glass such as our S-2 Glass® fibers and is, therefore, the ideal product for use in spar caps for wind turbine blades," said Drew Walker, AGY Vice President of Sales and Marketing. "Its excellent balance of performance and cost is enabling manufacturers to optimize the design of wind blades and generate lower weight solutions, or add length to a blade with no additional weight."

When used in blade design, studies have shown that in the same resin system, S-1 Glass can have significant benefits over traditional E-Glass - a 45% increase in tensile strength, and an increase in tensile modulus in excess of 25%. "The ability to add length to a wind turbine blade allows the turbine to operate at 100% efficiency over a larger range of wind speeds. This, in turn, can reduce the cost of the electricity generated," explained Walker. "The ability to reduce weight of a blade can also have benefits in terms of reducing costs in other areas of the complete wind turbine structure."

S-1 Glass rovings have been tested in a range of epoxy systems found in today's wind turbine blades and AGY is working with resin companies to ensure that S-1 Glass rovings will work in new resins systems as they come to the market.

For more information on S-1 Glass rovings, please call 888-434-0945, or visit AGY's website at [www.agy.com](http://www.agy.com).

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**About AGY**

AGY is a leading global producer of glass fiber yarns and high-strength glass fiber reinforcements used in a variety of composites applications. The company serves a diverse range of markets including aerospace and defense, electronics, construction and industrial. Headquartered in Aiken, South Carolina USA, AGY has a European office in Lyon, France and manufacturing facilities in the U.S. in Aiken, South Carolina and Huntingdon, Pennsylvania and Shanghai, China.

**About Germanischer Lloyd**

Germanischer Lloyd is a classification society based in Hamburg, Germany. Its technical and engineering services also include the mitigation of risks and assurance of legal compliance for oil, gas and industrial installations as well as wind energy plants. The society also certifies the operating performance of companies and performs damage investigations as well as destructive and non-destructive tests of materials. For more information, visit [www.gl-group.com](http://www.gl-group.com)

**PHOTO CAPTION**

The attached graph shows the performance of AGY's S-1 Glass™ rovings in comparison to a typical wind turbine blade E-Glass roving product in the same resin system.