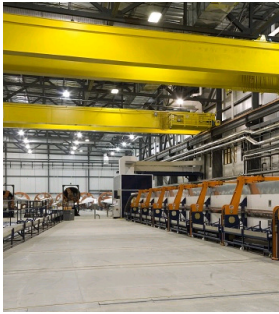


Rotor Blade Manufacturing Facility



FIBERBLADE'S FIRST MANUFACTURING PLANT IN THE U.S. IS PROJECTED TO HAVE THE CAPACITY TO CREATE ENOUGH WIND TURBINE BLADES TO PRODUCE 300 MEGAWATTS OF ENERGY EVERY YEAR.

LOCATION
EDENSBURG, PA

CLIENT
FIBERBLADE, LLC

CONSTRUCTION COST
\$25 MILLION

SIZE
184,000 SF

With environmental sustainability at the forefront of social, economic, and political issues in recent years, the Fiberblade subsidiary of Gamesa, a Spanish manufacturing firm that generates renewable electric energy based on the promotion and operation of wind farms, the manufacture of wind turbines, and the provision of advanced services to the renewable energy sector, needed a large manufacturing facility.

STV provided the comprehensive design, permitting, and construction management services to Fiberblade for its first U.S. rotor blade manufacturing facility on a 22-acre site in Ebensburg, PA. The new facility will produce two types of fiberglass rotor blades for wind turbine generators, with blades measuring 85 or 140 feet in length.

The 184,000-sf plant is comprised of four primary areas related to the manufacturing process as well as office, laboratory, and storage space.

STV worked closely with IDOM, a Spanish architectural and engineering firm and Gamesa's representative to adapt the basic design of the plant to U.S. standards and regulations and to the site.

Special features of the plant include reinforced flooring to support the manufacturing equipment; a hot oil system; six overhead, top-running cranes with a 10-ton capacity; and high-bay construction areas.

STV provided architectural design; civil/site plans for parking, stormwater management, and permits; environmental studies for wetlands and environmental permits; structural engineering; mechanical/HVAC engineering; plumbing and fire protection; industrial engineering; and electrical engineering. STV also provided cost estimating, scheduling, and commissioning throughout the construction process.