

Advanced Energy Job Stimulus Program

A key component of Ohio's program to create new jobs and encourage economic development, the \$150 million Advanced Energy Job Stimulus Program is designed to support new technology projects on a fast track toward commercialization. As part of the \$1.57 billion job stimulus package signed into law by Governor Ted Strickland in June 2008, the goal of the program is to employ Ohio workers in the advanced energy jobs of the future.



Project Name:

Wind Energy Research and Development Center

Project Location:

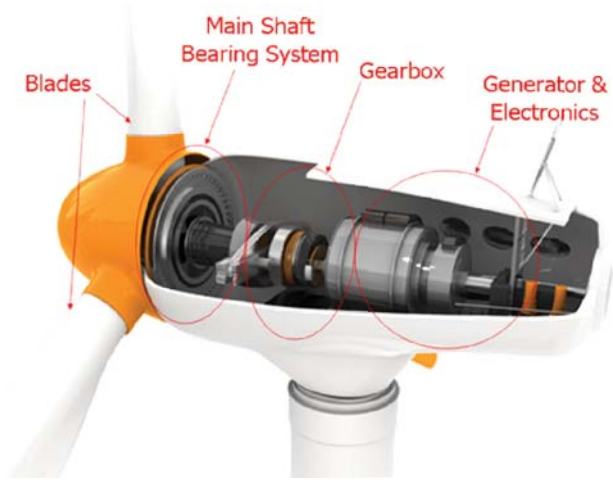
Canton, Ohio (Stark County)

Applicant Information:

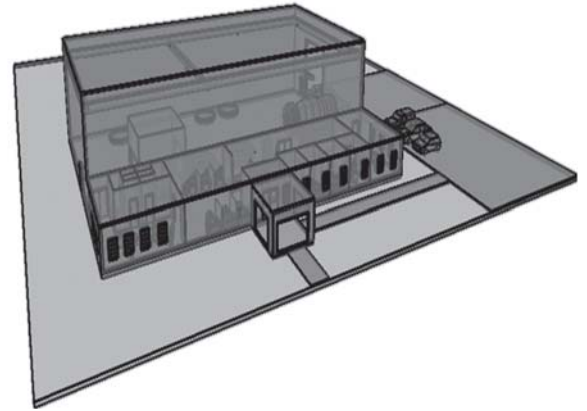
The Stark County Port Authority (SCPA) was established in June 1995 by a resolution of the Stark County Board of Commissioners. The SCPA was created to use its broad statutory powers as a tool to promote economic development in Stark County. The SCPA helps create and preserve jobs through a wide variety of financing, real estate and foreign trade zone programs. Since its inception, the SCPA has issued close to \$17 million in revenue bonds for economic development projects.

Project Description:

This project is a collaboration among Stark County Port Authority (SCPA), Stark State College of Technology (SSCT) and The Timken Company. The collaborators propose the establishment of a wind energy test center for ultra-large main-shaft bearing systems in Canton, Ohio, called the Wind Energy Research and Development Center on the campus of Stark State College. The Center will allow the testing of main shaft wind turbine bearing systems over 10 feet in outer diameter. The 12,000 square-foot facility will include precision assembly equipment and a research and development application test rig capable of inducing the required million-pound test loads experienced by wind turbine components. The building will be constructed on land owned by SSCT. SCPA will enter into a ground lease with SSCT and cause the facility to be constructed and operated pursuant to the terms of the ground lease. Eventually, the building ownership will transfer to SSCT. The Timken Company has committed, via a signed letter of intent, to be the primary tenant of the facility. The project presents the State of Ohio with an opportunity to expand a supply chain in the wind industry, while at the same time expanding research opportunities in Northeast Ohio.



Wind turbine schematic



Drawing of the proposed Wind Energy Research and Development Center

Funding Request (adjusted): \$1,530,000

Approved Funding: \$1,530,000 loan

Total Projected Investment: \$11,847,864

Use of Stimulus Program Funds: Expansion of the state's wind energy research capability and of a wind energy supply chain

Jobs Created: 8 new full-time jobs, 57 construction jobs

Type of Jobs Created: Construction, engineering

Qualifying Technology Category: Wind energy

Industry Sector Suppliers: Bearings



Mark R. Shanahan

Governor's Energy Advisor and Executive Director, Ohio Air Quality Development Authority

Ohio Air Quality Development Authority
50 W. Broad Street, Suite 1718
Columbus, Ohio 43215
614-224-3383
www.ohioairquality.org



Steve Paquette

Stark County Port Authority Administrator

116 Cleveland Ave. NW
Canton, Ohio 44702
330-453-5900