

Summary

In 2004, Lakeshore Technical College constructed a grid-tied small commercial wind turbine on campus to take advantage of the Lakeshore's prime location for wind energy. The wind turbine provides nearly 3% of the campus' electrical energy needs. In 2007, a photovoltaic (PV) solar project is planned as an additional demonstration and teaching resource. These two systems will provide over 70 kWh of installed renewable energy generation equipment on campus. Annual electrical production is the equivalent of the electrical energy usage of seven northeast Wisconsin residences.



What this means

Lakeshore Technical College is:

- Decreasing energy costs
- Advancing learning about emerging energy technologies
- Building community support and technical resources for alternative energy
- Offering classes and training in photovoltaic systems, wind systems, and other alternative/renewable energy technologies
- Offering an associate's degree for electro-mechanical wind system technicians
- Creating educational partnerships in alternative energy to meet the needs of a growing Wisconsin.

How we made it happen

- LTC received a grant from Focus on Energy to help construct the wind turbine.
- LTC received the 2005 Innovation Award from the Interstate Renewable Energy Council for the Wind Energy Demonstration Site.
- WE Energies and Focus on Energy provided grants to assist with the PV Solar Project.

Additional benefits

- LTC is a state leader in providing education on emerging energy systems.
- LTC offers comprehensive training, including workshops, seminars, and courses, on renewable energy systems.
- By generating public awareness and support for renewable energy, LTC can increase market share for these technologies and services throughout the state.