Green Energy Summit

Topical Session 2-3

Date: **Thursday, March 25, 2010**

Time: 2:50 p.m. –3:10 p.m

Presentation: ***"Performance of LTC's Vestas V-15 Wind Turbine"***

Jennifer Heinzen
Wind Energy Technology Instructor, Lakeshore Technical College

In August of 2004, Lakeshore Technical College (LTC) installed a remanufactured Vestas V-15 wind turbine and a 50-meter meteorological (MET) tower. The systems have been "live" and collecting data for more than five years, Currently, LTC is the only college in the state to offer an Associate Degree in Wind Energy Technology, Students in this program regularly climb, inspect, troubleshoot, repair and maintain the V-15 turbine, This semester, five second-year students are enrolled in a Data Analysis course, Their work is the body of this presentation. The LTC students and their instructor, Jenny Heinzen, will share their findings regarding average wind speeds, wind shear, power curves, energy production, availability and capacity factors of the V-15 on the Cleveland campus.

Presenter Biography: **Jennifer Heinzen**

Jenny Heinzen is the lead instructor for LTC's Wind Energy Technology program. A master electrician by trade, she has been teaching wind energy since 2005. She did her undergraduate work with UW-Stout in Career & Technical Education, and is a graduate student at UW-Green Bay - studying Environmental Science & Policy. Jenny (through LTC) is a member of many renewable energy organizations, like the Midwest Renewable Energy Association, the American Wind Energy Association, RENEW Wisconsin, Wind for Wisconsin, the Rural Energy Management Council, the Manitowoc Sustainability Committee, and the Small Wind Conference Coordinating Committee, She won the Wind Energy Educator Award in 2008, and LTC received the Innovation Award from the Interstate Renewable Energy Council in 2005,

Jenny will begin the session with a brief overview and introduction, but Wind Energy Technology students (5) will do most of the presenting, They are: Brad Cox, Jeremy Hildebrand, Ben Riphenburg, Jesse Strojinc, and Brandon Wielgosh. All plan to graduate with an Associate Degree in May of 2010.