



CENTER FOR RENEWABLE ENERGY

Illinois State University

NEWSLETTER

FEBRUARY 2010

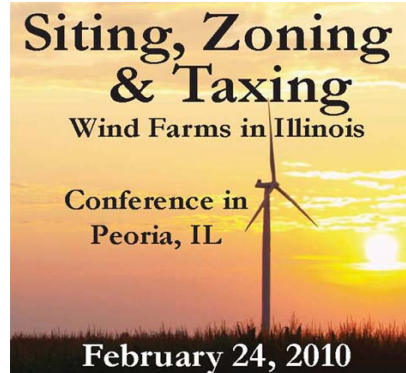
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Founding Members:



IWWG Siting, Zoning & Taxing Conference



so this conference was designed to answer the many questions that county and zoning board members and officials have about this industry.”

The one-day conference will feature speaker panels to discuss the responsibilities and best practices of county and zoning boards, taxation of wind farms, property value guarantees, roads and decommissioning. A Wind Energy 101 pre-session will also be offered for those new to wind farm projects.

Panelists include **Kyle Barry** (McGuire Woods), **Kevin Borgia** (Illinois Wind Energy Association), **Jim Griffin** (Schain, Burney, Banks & Kenny), **Jerry Hicks** (LaSalle County), **Ben Hoen** (Lawrence Berkley National Laboratory subcontractor), **Fred Iutzi** (Illinois Institute for Rural Affairs, Western Illinois University), **Dan Litchfield** (Iberdrola Renewables), **Wendy Ryerson** (Lee County), **Chuck Schopp** (Livingston County), **Ruth Anne Tobias** (DeKalb County), **Todd Weegens** (Fehr-Graham & Associates), and **Jim Webster** (Winnebago County).

Register for the Siting, Zoning & Taxing Wind Farms Conference online at www.RenewableEnergy.ilstu.edu/events/SZT2010. Early bird registration fee is \$30 for government employees, county board members, and zoning board members; \$75 for all others. As of February 11th, the rates will change to \$50 and \$100 respectively.

The Illinois Wind Working Group (IWWG) will host a Siting, Zoning, and Taxing of Wind Farms in Illinois Conference on Wednesday, February 24, 2009, at the Peoria Civic Center.

“Illinois already has more than 1560 megawatts (MW) of wind energy capacity, with 646 MW installed in 2009 alone,” said David Loomis, director of the Center for Renewable Energy at Illinois State University. “Interest in wind energy continues to grow across the state,

Conference Sponsors:



Want to sponsor? Email Janet at jniezgoda@ilstu.edu for details.

UPCOMING EVENTS

February 3
IWWG Full Group
Conference Call, 3:00
 Speaker: Fred Iutzi, Illinois
 Institute for Rural Affairs,
 Western Illinois University

February 8
Landowner Forum
Stephenson County, 1:30
 Freeport, IL

February 24
Siting, Zoning and Taxing
Conference, 8:00
 Peoria Civic Center
 Peoria, IL

July 21-22
IWWG Fourth Annual
Advancing Wind Power in
Illinois Conference
 Peoria Civic Center
 Peoria, IL

COMMITTEE NEWS

After the Siting, Zoning & Taxing Conference, the IWWG Executive Committee will begin planning the Annual "Advancing Wind Power in Illinois Conference" scheduled for July 21-22 at the Peoria Civic Center.

Do you have a list of hot topics in the wind industry to suggest? If so, please email your ideas to Janet Niezgoda, Coordinator of the Center, at jniezgoda@ilstu.edu, and your suggestions will be presented to the committee.

Illinois Wind Farm Projects

According to AWEA, Illinois is now (end of December) ranked the seventh largest state in terms of wind capacity installations. In 2009, Illinois had the fifth most wind installations behind Texas, Indiana, Iowa, and Oregon. Illinois' progress up the ranking should continue with two large wind farms under construction (Edison Mission Group's Big Sky Project (239.4 MW) and Iberdrola's Cuyaga Ridge Project (300 MW)).

PROJECT	LOCATION (COUNTY)	CAPACITY (MW)
Lee-DeKalb Wind Energy Center	DeKalb and Lee	226.500
Twin Groves Wind Farm Phase I	McLean	198.000
Twin Groves Wind Farm Phase II	McLean	198.000
Camp Grove Wind Farm	Marshall and Stark	150.000
Grand Ridge Phases II, III, and IV	LaSalle	111.000
Top Crop	LaSalle	102.000
EcoGrove Wind Farm Phase I	Stephenson	100.500
Rail Splitter Wind Farm	Logan and Tazewell	100.500
Grand Ridge Wind Farm Phase I	LaSalle	99.000
GSG Wind Farm	Lee and LaSalle	80.000
Providence Heights Wind Farm	Bureau	72.000
Crescent Ridge Wind Farm	Bureau	54.450
Mendota Hills Wind Farm	Lee	51.660
Agriwind Wind Farm	Bureau	8.400
City of Geneseo	Henry	3.000
Turbine Adam	Lee	2.500
Illinois Rural Electric Cooperative	Pike	1.650
Erie Community Unit School District #1	Whiteside	1.200
Gob Nob	Montgomery	0.900
Other wind projects	Various	3.468
TOTAL IN ILLINOIS		1564.728

IWWG Conference Calls with Topics of Interest

The Illinois Finance Authority's loan guarantee program was discussed on the Illinois Wind Working Group call in January by Marnin Lebovitz. This program should help wind developers gain access to capital. We expect this program to spur construction of permitted wind projects and to encourage development of new wind farms in Illinois.

On February 3rd at 3:00 PM, Fred Iutzi of the Illinois Institute for Rural Affairs at Western Illinois University will discuss the results from their County Wind Ordinance and Wind Zoning Survey.

Please also mark your calendar for the following group conference call on Wednesday, March 17th, at 2:00 p.m. Sharon Segner of LS Power will discuss their New Transmission Line to Facilitate Renewable Energy.

Students Install Additional Instrumentation



Illinois State University Renewable Energy students **Shannon Fulton**, **Paul Dufresne**, **Mark Edmondson** and **Paul Aplington-Johnson** recently installed additional instrumentation on the Center for Renewable Energy's 1 kW Bergey wind turbine. The students were assisted by **Dave Kennell**

(Associate Director of the Center) and **Matt Aldeman** (Technical Assistant at the Center).



The Bergey XL.1 turbine, is part of the Center's demonstration hybrid 1 kW wind / 1 kW solar grid-tie capable renewable energy system, and sits on top of a 97' guy-wire tower. The tower was lowered using a 29' gin pole, a standard 1/2" electric drill, a worm gear winch and a 2:1 block. An additional anemometer was added to the tower at a height of 10m, which will allow for comparison with widely available 10m wind data from other parts of the state and country. After installation, a similar process was used to right the tower and return the system to operation.

Solar Car Team Prepares to Compete Again

The Illinois State University Solar Car Team offers a unique learning experience for students interested in science, engineering, and technology as well as provides an educational program to demonstrate the benefits of alternative energy. "Mercury" is a multidisciplinary team of students and faculty who volunteer time and energy to advance their skills and the promise of renewable energy, and the team competes in races across the country. The 2010 American Solar Challenge (ASC2010) is a competition to design, build, and drive solar-powered cars in a cross-country time/distance rally event, a 1100 mile drive from Tulsa to Chicago. David Kennell, Associate Director of the Center for Renewable Energy, is participating on the team again this year, along with eight Renewable Energy and Engineering Technology Students. The competition route includes a stop in Normal, IL, on Friday, June 25th.

STUDENTS AT RETECH

February 1-5, 2010 is being declared as Clean Energy Week by over 40 national organizations. The Renewable Energy Technology Conference and Exhibition (RETECH 2010) in D.C. will be an anchor event of Clean Energy Week.

Nine of Illinois State University's Renewable Energy students will attend the RETECH convention. Out of the 40 volunteers helping at the convention, eight will be Illinois State University students.

STUDENT INTERNSHIPS

Would your company be interested in participating in our Internship Program during the summer or for a semester? An internship is a departmentally approved and supervised senior college level work experience in renewable energy. Paid experiences are encouraged, and a minimum of 45 hours of work experience must be satisfactorily completed by a qualified student for each one semester hour of university credit he/she expects to obtain. For more details, please contact Dr. Randy Winter, Associate Director of the Center for Renewable Energy, by phone 309-438-3563 or email rwinter@ilstu.edu.

Center Expands Staff



TECHNICAL ASSISTANT: Matt Aldeman

Matt assists faculty concerning renewable energy systems in grant writing, provides technical assistance to the external community concerning renewable energy systems, and help maintains the renewable energy laboratory equipment including the anemometer data logger, solar data logger, small wind turbine, SODAR unit, and wind tunnel. Matt joined our Renewable Energy team after working for General Electric as a wind site manager, where he led a team of 12 technicians in the operation, maintenance and repair of 67 1.5MW wind turbine generators. Previously, he proudly served in the U.S. Navy. Aboard the USS John C. Stennis, he was the Reactor Electrical Division Officer and led a division of 30 electricians through a 7.5 month deployment to the Persian Gulf. On the USS O'Bannon, he served as Gunnery Officer and Legal Officer. His education includes graduation with distinction from the U.S. Naval Nuclear Power School, a Master of Engineering Management degree from Old Dominion University, and a B.S. in Mechanical Engineering from Northwestern University.

Become a Member of the Center

We are recruiting corporate partners for the Center. A **Sustaining Member** will receive a paid intern from the program for one year and provide input into the research direction of the Center for that year. The organization will also receive a seat on the Board of Advisors for that year. Sustaining Members of the Center will make a \$10,000 annual donation to the Illinois State University Foundation.

Sustaining members will receive:

- Company recognition on all Center materials
- Paid Interns from the Renewable Energy Major
- First look at graduates from the Renewable Energy Major
- Networking opportunities at Center conferences/events
- Preview of all applied research performed by the Center

If you have any questions about becoming a Sustaining Member, please contact David Loomis, Director of the Center for Renewable Energy, at (309) 438-7979 or email dloomis@ilstu.edu.

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