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Executive Summary

Provide a one to two page summary covering the total work performed during the project: its purpose, scope, results, conclusions and recommendations. If applicable, include commercialization plan/status.

Project Objectives:

1. Develop a Siting, Zoning and Taxation Conference for FY 09 and FY 10
2. Maintain Informational Databases, Conference Calls and a Speakers Bureau for Public Education
3. Develop a series of Landowner Forums
4. Property Value Study
5. Research Public Attitudes of Wind Energy
6. Develop a Two-Day Annual Wind Energy in Illinois Conference

TASK 1: Develop a Siting, Zoning and Taxation Conference

In Illinois, there is no statewide zoning and all wind farms must receive approval from the county board in which the project resides in the form of a special use permit. Many counties have not adopted a wind ordinance for their county and there is general confusion over how wind farms are taxed despite a 2007 state law regarding assessment of wind farms. The Siting, Zoning, and Taxing Conference was designed to target county board and zoning board officials, to provide useful, unbiased information regarding the legal aspects of wind ordinances and procedures, taxation issues, and facts regarding wind farm development.

TASK 2: Maintain Informational Databases, Conference Calls and Speakers Bureau for Public Education

Critical to the IWWG's educational efforts is timely, reliable data upon which decision-makers can make wise, informed decisions. The IWWG maintains three databases that have been requested from numerous stakeholders. The first database contains detailed information about existing wind farms as well as those under construction, permitted, proposed and contemplated. The database contains the size, location, turbine, type and number, and current status. This information is requested almost weekly. A map of the wind farms has also been made from this database. This information is posted on the IWWG website.

In addition to databases, the IWWG plans and executes one-hour webinars with expert speakers to educate the IWWG members on critical state-level information.

There is also a need to educate the general public on wind energy. The IWWG receives request from organizations such as the Association of Illinois Electric Cooperatives, Illinois Farm Bureau, local Rotary Clubs, and other groups to have knowledgeable speakers to address wind energy issues. The IWWG maintains a Speakers Bureau to provide speakers for these types of events and requests. Depending on the audience, these education efforts address market barriers by providing county officials and wind opponents with objective fact-based information.

TASK 3: Develop a series of landowner forums.

Large wind farm development is booming in Illinois due in part to the state's renewable portfolio standard that requires 25% of the electricity supplied to residential and small business customers to come from renewable resources by 2025. IWWG collaborated with the University of Illinois Extension, Illinois Farm Bureau, the Illinois Association of Electric Cooperatives, and various community organizations to have a series of landowner forums. The purpose of these forums was to educate landowners who have been approached by wind developers to sign land leases for proposed wind developments. Speakers were wind energy experts familiar with the Illinois experience. The forums address market barriers providing fact-based, objective unbiased information to landowners and wind opponents.

TASK 4: Property Value Study

One of the key issues for Illinois of wind farm development has been the possible decline in property values in the area surrounding a wind farm. We are proposing to study this issue by assessing the impact on property values around the Twin Groves Wind Farm in McLean County. The Twin Groves Wind Farm is currently the largest wind farm in Illinois at 398 MW and phase one became operational in June, 2007. More importantly, there have been over 500 sales of property since the wind farm was announced which will provide a good statistical sample to analyze the impact of the wind farm on property values. It is important to have an Illinois-based study rather than a national study, since it will address critics who say the national results do not reflect local attitudes. This study will address a market barrier by providing an objective study of property value impact.

TASK 5: Research Public Attitudes of Wind Energy

Several wind farms have not received zoning approval due to organized opposition during zoning hearings. Many wind energy advocates believe that this is due to a small number of very vocal opponents. In order to determine the overall public attitudes, the IWWG tested a survey instrument during 2009. The survey provided information about where to target landowner forums and what topics are most needed to be addressed. The results of the research study are posted on the Center for Renewable Energy website to disseminate the information as widely as possible.

The study compared attitudes and responses between areas of the state that already had a working wind farm, had a wind farm under development, had a wind farm under proposal, and had not yet been approached by a wind developer, to see if there were differences in attitudes among the areas.

TASK 6: Develop a Two-Day Annual Wind Energy in Illinois Conference

The IWWG hosted an annual two-day conference to cover all aspects of wind energy including small wind, community wind, and large wind farms. Sessions covered "how to," policy, case studies, and more. The conference brings to Illinois nationally recognized experts and local policymakers to discuss the means to encourage growth of wind energy.

Introduction

In one to two pages describe what the work was all about and how it relates to energy efficiency. It can include (i) a brief description of the technology, (ii) the focus on solving a specific problem(s) and/or improvement(s) to be made by process/product development, (iii) potential applications and impacts -target industries and magnitude of potential energy saving, and (iv) commercialization status and plans.

This grant does not pertain to energy efficiency. It relates to Market Transformation in the area of Wind Energy. The Executive Summary serves as a good introduction.

Background

This section could include a discussion of the “state of the art”, specific area being addressed, project objectives, approach used to accomplish them, and relevant qualifications and past experience of the project team members in this context.

The Illinois Wind Working Group (IWWG) was founded in 2006 with about 15 members. It has grown to over 200 members today representing all aspects of the wind industry across the State of Illinois. In 2008, the IWWG developed a strategic plan to give direction to the group and its activities. The strategic plan identifies ways to address critical market barriers to the further penetration of wind. The key to addressing these market barriers is public education and outreach. Since Illinois has a restructured electricity market, utilities no longer have a strong control over the addition of new capacity within the state. Instead, market acceptance depends on willing landowners to lease land and willing county officials to site wind farms. Many times these groups are uninformed about the benefits of wind energy and unfamiliar with the process. Therefore, many of the project objectives focus on conferences, forum, databases and research that will allow these stakeholders to make well-educated decisions.

Results and Discussion

The format and content of this section would vary with the nature of the project and type of work performed. Include, where applicable, facts, figures, analyses, and assumptions used during the work to support the conclusions. If applicable, include a discussion of problems encountered during the project, any departure from planned approach and an assessment of their impact on the project outcome.

For R&D work, this section can include:

- Critical review of literature
- Technical approach and hypothesis guiding this approach
- Experimental methodology, test procedures, characterization methods
- Presentation and discussion of results

For computer modeling work, this section can include:

- Model description, key assumptions, version, source and intended use
- Performance criteria for the model related to the intended use
- Test results and performance verification
- Model details – theory, calculations, algorithms, strengths, weaknesses
- Hardware requirements
- Documentation (e.g., user's guide, model code)

TASK 1: Develop a Siting, Zoning and Taxation Conference

IWWG hosted a Siting Zoning and Taxation Conference on February 8, 2011. Over 280 people from 38 counties attended the one-day event at the Peoria Civic Center. The complete agenda and speaker presentations are available at:

<http://renewableenergy.illinoisstate.edu/wind/conferences/SZT2011.shtml>

IWWG hosted a Siting Zoning and Taxation Conference on February 24, 2010. Over 240 people from 29 counties attended the one-day event at the Marriott Hotel & Conference Center in Normal, IL. The conference agenda and speaker presentations are available at:

<http://renewableenergy.illinoisstate.edu/wind/conferences/SZT2010.shtml>

TASK 2: Maintain Informational Databases, Conference Calls and Speakers Bureau for Public Education

The IWWG maintains three databases that have been requested from numerous stakeholders. The first database contains detailed information about existing wind farms as well as those under construction, permitted, proposed and contemplated.

The new wind database was first posted on the website on July 24, 2010 and is updated periodically, most recently as of July 30, 2011.

Two additional databases were created and posted on the IWWG website. The Illinois Zoning Approval Database was originally posted on May 14, 2009, and The Summary of Illinois Wind Energy Ordinance Decommissioning Requirements by County was posted as of July 15, 2011.

All of the databases are easily accessible through the website,
<http://renewableenergy.illinoisstate.edu/wind/databases/>.

TASK 3: Develop a series of landowner forums.

The IWWG hosted Landowner's Forums, "Wind Energy 101," at the following locations:

October 7, 2009 – Chicago, Cook County
October 7, 2009 – Lemont, DuPage County
November 9, 2009 – Ottawa, LaSalle County
December 9, 2009 – Pontiac, Livingston County
February 8, 2010 – Freeport, Stephenson County

The "Wind Energy 101" presentations to answer the basic questions at the forums have since been placed on the IWWG website for easy access. They are available at
<http://renewableenergy.illinoisstate.edu/wind/Landownersforum.shtml>.

The group developed an Advanced Landowners Forum entitled "Wind Energy 201" to cover the more specific questions to be used at future forums. Topics include County Zoning Ordinances, Impact on Farming, Compensation, Small Wind vs. Large Wind, Wind Resource, Decommissioning, and Scope of Facilities Covered by Lease and Easement Agreements. More information on the "Wind Energy 201" is available on the website,
<http://renewableenergy.illinoisstate.edu/wind/conferences/LandownerForum201.shtml>.

TASK 4: Property Value Study

The report, **Wind Farm Proximity and Property Values: A Pooled Hedonic Regression Analysis of Property Values in Central Illinois**, by Jennifer Hinman, was completed and posted on the IWWG website in 2010. It is available for download at
<http://renewableenergy.illinoisstate.edu/wind/publications/2010%20Wind%20Farm%20Proximity%20and%20Property%20Values.pdf>.

TASK 5: Research Public Attitudes of Wind Energy

The report, **Public Beliefs and Opinions: Wind Energy in Illinois**, by Dr. David Loomis, Dr. J. Randy Winter, Dr. Aslihan Spaulding, and Sophie Theron, was posted on the IWWG website in June, 2010. It is available for download at
<http://renewableenergy.illinoisstate.edu/wind/publications/2010%20Public%20Attitudes%20Report%20FINAL.pdf>.

TASK 6: Develop a Two-Day Annual Wind Energy in Illinois Conference

The Fifth Annual Advancing Wind Power in Illinois Conference was held July 21-22, 2010, at the Illinois Institute of Technology in Chicago, IL. Over 270 people attended the event with 11 sponsors. The conference covered many aspects of wind energy, including large, community and small wind. Seminars and panel sessions included such topics as Where is Wind Energy Headed in 2012 and Beyond, Wind Energy Policy in Illinois, Transmission Expansion for Wind Energy, Impact of Municipal Zoning Radius, Small Wind How To, Curtailment of Wind Farms Output, Wind Farms & Labor Unions, Habitat Conservation Plans, How Electricity Markets Work in Illinois, What Landowners Need to Know, Economic Development and Wind Farms, Wind for Schools, the Need for Power Purchase Agreements, Small Wind Zoning, Wind Energy Educational Programs, Project Valuation, Emerging Technologies, Do-It-Yourself Wind Farm, Current Research by the Center, IIT Wind Consortium Project, and Large Wind Development, Economics and Finance. The complete agenda and speaker presentations are available on the IWWG website:

<http://renewableenergy.illinoisstate.edu/wind/conferences/AnnualConference2011.shtml>

The Fourth Annual Advancing Wind Power in Illinois Conference was held July 14-15, 2010, at the Peoria Civic Center in Peoria, IL. Over 280 people attended the event, with 10 sponsors. The conference covered many aspects of wind energy, including large, community and small wind. Seminars and panel sessions included such topics as Wind Energy Policy in Illinois, State Grant Programs, Wind Farm Construction, Commercial and Community Wind, Community College Programs, Wind for Schools, How to Get a Job in Wind Energy, Transmission Plans, Wind Assessment and Forecasting, Net Metering, How Manufacturers Can Get Into the Supply Chain, the Indiana Bat, New Wind Energy Technology, Small Wind How To, Siting, Zoning and Road Agreements, as well as Large Wind Economics, Development, and Finance. The event also featured two bus tours, one to the small wind turbine at the Illinois State University Horticulture Center, the second to Horizon Wind Energy's Rail Splitter Wind Farm. The complete agenda and speaker presentations are available on the IWWG website:

<http://renewableenergy.illinoisstate.edu/wind/conferences/AnnualConference2010.shtml>

Additional events:

87 people also attended the Building the Wind Turbine Supply Chain: The Next Steps Workshop, held July 13, 2010, in conjunction with the Annual Conference, at the Peoria Civic Center in Peoria, IL. The workshop was designed to enable Illinois manufacturers to explore opportunities that exist in the wind turbine supply chain, evaluate their capabilities relative to customer requirements, develop their plan for penetrating the market, and make connections with representatives from wind turbine technology companies. The complete agenda and speaker presentations are available on the IWWG website:

<http://renewableenergy.illinoisstate.edu/wind/conferences/SupplyChainJuly2010.shtml>

A Supply Chain workshop was also held in Macomb, IL, in October, 2009, for 117 attendees. The complete agenda and speaker presentations are available on the IWWG website:

<http://renewableenergy.illinoisstate.edu/wind/conferences/SupplyChainOct2009.shtml>

Full Illinois Wind Working Group conference calls featuring speakers on topics of interest to the group were held including:

November 4, 2009 – speaker Barry Matchett, Environmental Law and Policy Center, “Environmental Policy Driving Growth in Renewable Energy”

December 15, 2009 – speaker Dale Kuhn, JULIE, “JULIE Update and Upcoming Changes to the Illinois Underground Utility Facilities Damage Prevention Act”

January 5, 2010 - speaker Marnin Lebovits, Illinois Finance Authority, “The State of Illinois Energy Finance Initiative”

February 3, 2010 - speaker Fred Iutzi, Illinois Institute for Rural Affairs, Western Illinois University, “Results from the County Wind Ordinance and Wind Zoning Survey”

March 17, 2010 - speaker Sharon Segner, LS Power, “New Transmission Line to Facilitate Renewable Energy Development in Illinois and Indiana”

April 7, 2010 – speaker Tim Printy, Foundation Engineering, LLC, “General Inspections for New and Existing Wind Turbine Foundations”

September 22, 2010 – speaker Neil Palmer, Neil Palmer & Associates, LLC, “Large Wind – Siting, Zoning, Communication Issues”

October 13, 2010 – speaker Greg Erdmann, OCAS, Inc., “Wind Farm Visual Impact Mitigation Solutions: An On-Demand Wind Farm Light Control System That Keeps Turbine Lights Off”

December 8, 2010 – speaker Dale Kaiser, Oak Ridge National Laboratory, “The Wind Energy Data and Information (WENDI) Gateway

March 23, 2011 – speaker Matt Sailor, U.S. Fish & Wildlife Service, “Indiana Bat”

April 18, 2011 – speaker Larry Flowers, American Wind Energy Association, “Creating a Public-Private Partnership to Educate K-12 about Wind Energy”

To accomplish the objectives above, the Illinois Wind Working Group and the Center for Renewable Energy at Illinois State University held the following conference calls and meetings:

2010:

January 6	Exhibiting at AWEA Windpower 2010 Committee
January 11	Center for Renewable Energy Membership Luncheon
January 20	Exhibiting at AWEA Windpower 2010 Committee
January 28	Exhibiting at AWEA Windpower 2010 Committee
February 5	Exhibiting at AWEA Windpower 2010 Committee
March 5	Center for Renewable Energy Staff Meeting to plan Annual Conference
March 15	Center for Renewable Energy Staff Meeting to plan Advisory Board
March 19	Exhibiting at AWEA Windpower 2010 Committee
March 19	Siting, Zoning & Taxing Conference Committee, Conference Wrap-Up
March 22	IWWG Executive Committee, Annual Conference Planning
March 26	Exhibiting at AWEA Windpower 2010 Committee
March 26	Center for Renewable Energy Staff Meeting to plan Advisory Board
April 7	IWWG Full Group Meeting – speaker Tim Printy
April 12	IWWG Executive Committee
June 7	IWWG Executive Committee Meeting
July 13	IWWG Executive Committee Dinner Meeting
Aug. 9	IWWG Executive Committee Conference Call
Sept. 13	IWWG Executive Committee Conference Call
October 4	Siting, Zoning & Taxing Conference Committee Meeting
November 3	IWWG Executive Committee Meeting
November 10	Landowner Forum Committee Meeting
December 6	IWWG Executive Committee Meeting
December 13	Dave and Janet met to create draft IWWG Annual Conference 2011 Agenda
December 15	Landowner Forum Committee Meeting

2011:

January 10	IWWG Executive Committee Conference Call
January 20	Great Lakes Wind Cooperative Conference Call
January 25	Wind for Schools and Report Conference Call
Jan. 25	IWWG Landowner Forum Committee Conference Call
January 28	Illinois Wind Energy Team Conference Call
February 15	Annual Conference Small Group Call
February 16	IWWG Executive Committee Conference Call
March 10	Siting, Zoning & Taxing Committee Conference Call
March 11	Illinois Wind Energy Team Conference Call
March 16	Siting, Zoning & Taxing Committee Conference Call
March 18	DOE Wind Powering America Regional Meeting
March 21	IWWG Landowner Forum Committee Conference Call
March 23	IWWG Executive Committee Conference Call
March 25	Illinois Wind Energy Team Conference Call
March 30	25x'25 Forum Committee Conference Call
April 13	Landowner Forum Committee Conference Call
April 15	Illinois Wind Energy Team Conference Call
May 9	IWWG Executive Committee Conference Call
May 18	Landowner Forum Committee Conference Call

May 26	Wind Powering America Summit
June 8	Landowner Forum Committee Conference Call
June 16	Illinois Wind Energy Team Conference Call
June 21	IWWG Executive Committee Conference Call
July 20	IWWG Executive Committee Dinner Meeting at IIT in Chicago
August 1	IWWG Executive Committee Conference Call
August 29	Illinois Wind Energy Team Conference Call
September 21	Siting, Zoning & Taxing Committee Conference Call
September 30	IWWG Executive Committee Conference Call
October 26	IWWG Executive Committee Conference Call
October 26	Illinois Wind Energy Team Conference Call
November 8	25x25 Forum Committee Conference Call
November 10	IWWG Landowner Forum Committee Meeting
November 30	IWWG Executive Committee Conference Call
November 30	Illinois Wind Energy Team Conference Call
December 15	IWWG Landowner Forum Committee Meeting

Additional outreach included:

2010:

David Loomis, "Wind Energy 101," presented March 10, 2010 at Peoria Christian School, Peoria, IL.

David Loomis, "Wind Energy 101", presented March 30, 2010 at the Presidential Scholars Seminar, Illinois State University, Normal, IL.

David Loomis, "Economic Impact of Wind Energy in Illinois," presented June 22, 2010 at the GLWC Presents: JEDI Analysis in the Great Lakes Webinar.

David Loomis, "From Wind Farms to Residential Wind and Solar: What's Happening in Illinois?," presented June 10, 2010 at the Eastern Illini Electric Cooperative Annual Meeting in Paxton, IL.

David Loomis, "Economics of Wind Energy," presented May 19, 2010 at the U.S. Green Building Council meeting in Chicago, IL.

David Loomis, "Economic Costs and Benefits of Wind Energy," presented May 7, 2010 at the Rockford Area Realtors Association meeting in Rockford, IL.

Randy Winter, Presentation to the CAST Advisory Board about the Renewable Energy Program and Major, May 13, 2010.

Randy Winter, Presentation to Presidential Scholar's class about ethanol; tour of the hybrid wind-PV system at the horticulture center, May 20, 2010.

Randy Winter, attended Illinois Biomass Working Group meeting, May 27, 2010.

Matt Aldeman, ACEC American Council of Engineering Companies, Illinois Chapter, Annual Energy Conference, May 6, 2010 (Topic: The State of Wind Energy).

Matt Aldeman, Illinois Farm Bureau Summer Ag Institute, June 21, 2010 (Topic: Illinois State University Renewable Energy Major and Wind for Schools).

David Kennell, presentation "Small Wind Turbine Performance, A Case Study". IWWG 4th Annual Conference, Advancing Wind Power in Illinois 2010, July 14-15, 2010, Peoria, IL.

David Loomis, "Latest Trends in Wind Energy," presented September 30, 2010 at the Soil and Water Conservation District Wind Farm Workshop in Normal, IL.

David Loomis, "Understanding the Economic Impact of Wind Energy in Illinois," presented September 20, 2010 at the Third Annual Meeting of the Great Lakes Wind Collaborative in Cleveland, OH.

David Loomis, "Economic Impact of Wind Energy in Illinois," presented July 28, 2010 at the Livingston County Zoning Board of Appeals Hearing in Pontiac, IL.

David Loomis, "Renewable Energy," presented July 26, 2010 at the Children's Discovery Museum in Normal, IL.

David Loomis, "Economic Impact of Wind Energy in Illinois," presented July 22, 2010 at the AgriEnergy Conference in Champaign, IL.

David Loomis, "Renewable Energy Major at ISU," presented July 21, 2010 at Green Universities and Colleges Subcommittee Webinar.

David Loomis, "Center for Renewable Energy Research," presented July 15, 2010 at the Advancing Wind Power in Illinois Conference in Peoria, IL.

Matt Aldeman, presented a "Residential Wind Power Workshop, July 26-29

David Loomis, "Wind Energy," presented on September 20, 2010, at the Great Lakes Wind Collaborative Conference in Ohio

David Loomis, "Wind Energy," presented September 30, 2010, at the Illinois Department of Agriculture SWCD Wind Farm Workshop

David Kennell, "Building Integrated Renewable Energy," presented October 21, 2010 at the Central Illinois Chapter of the International Facilities Management Association's October meeting

David Loomis testified October 28, 2010, at the Senate Energy Committee – Dr. David Loomis testified

Matt Aldeman and Dr. David Loomis, "Wind Energy Development in Illinois," October 28, 2010, at the Illinois Association of County Zoning Officials Annual Seminar at Starved Rock

Matt Aldeman presented, November 5, 2010, at the Illinois Science & Teachers Association

David Loomis was interviewed for Wind Today on November 8, 2010

David Loomis presented "What Should the Next Governor of Illinois Do About Energy?" on November 15, 2010, at the Illinois Chamber of Commerce Forum, Sue Deason attended

David Loomis presented "Wind Energy Ordinances" on November 17, 2010, at the U.S. Department of Energy's Wind Powering America Webinar

David Loomis and Matt Aldeman presented November 19, 2010, at the Innovation Talent, with Niles North and Rolling Meadows High Schools, Sue Deason attended

Matt Aldeman presented, Sue Deason attended Illinois State University's Center for Mathematics, Science and Technology (CeMaST), seminar on Climate Change on December 3, 2010.

2011:

David Loomis presented "Wind Energy 101," February 7, 2011, at the Wind Power in Central Illinois - A Public Forum, CCNET Renewable Energy Group, Champaign, IL.

"Overview of County Wind Farm Activity," presented February 9, 2011 at the Illinois Wind Working Group Siting, Taxing and Zoning of Wind Farms, Normal, IL.

"Wind Energy 101," presented February 9, 2011 at the Illinois Wind Working Group Siting, Taxing and Zoning of Wind Farms, Normal, IL.

Matt Aldeman presented on March 8, 2011, at the State Farm, Illinois Operations Center Lunch & Learn

David Loomis presented "Building a Regional Energy Policy for Economic Development," on April 4, 2011, at the Midwestern Legislative Conference's Economic Development Committee's Webinar.

David Loomis presented "Building the Wind Turbine Supply Chain," on May 11, 2011, at the Supply Chain Growth Conference at University of Illinois at Chicago.

Matt Aldeman presented "Opportunities for Illinois Manufacturers," on May 11, 2011, at the Supply Chain Growth Conference at University of Illinois at Chicago.

David G. Loomis, "Overview of the Center for Renewable Energy," presented July 20, 2011 at the University-Industry Consortium Meeting at Illinois Institute of Technology, Chicago, IL.

David G. Loomis, "Current Research by the Center for Renewable Energy," presented July 22, 2011 at the Fifth Annual Advancing Wind Power in Illinois Conference in Chicago, IL.

David G. Loomis, "Economic Impact of Wind Farms," presented August 26, 2011 at the Illinois Department of Commerce and Economic Opportunity Peer Exchange, Peru, IL.

David Loomis, "Economic Impacts; Public Beliefs and Opinions," presented with Matt Aldeman October 28, 2010 at the Illinois Association of Illinois County Zoning Officials Annual Seminar in Utica, IL.

David Loomis, "Wind Energy Development in Illinois," presented with Matt Aldeman October 28, 2010 at the Illinois Association of Illinois County Zoning Officials Annual Seminar in Utica, IL.

David Loomis, "Is Wind Energy Development Right for Illinois," presented with Matt Aldeman October 28, 2010 at the Illinois Association of Illinois County Zoning Officials Annual Seminar in Utica, IL.

David Loomis, Oral Testimony before the Illinois Senate Energy and Environment Committee, Senator Jacobs presiding, October, 28, 2010, Chicago, IL.

David Loomis, "Solar Market Transformation," presented October 29, 2010 at the Solar Market Transformation Conference in Normal, IL.

David Loomis, "What Governor Quinn Should Do about Energy?" presented November 15, 2010 at the Illinois Chamber of Commerce Energy Forum Conference, Chicago, IL.

David Loomis, "Siting and Zoning in Illinois," presented November 17, 2010 at the Wind Powering America Webinar.

David Loomis, "Alternative Energy Strategies," presented with Matt Aldeman November 19, 2010 at the Innovation Talent STEM Education Forum, Chicago, IL.

David Loomis, presented "Challenges and New Growth Strategies in the Wind Energy Business," invited plenary session speaker at the Green Revolution Leaders Forum, November 18, 2011 in Seoul, South Korea.

David Loomis presented "Center for Renewable Energy Overview," presented December 2, 2011 at the Midwest Energy Policy Conference in St. Louis, MO.

EXHIBITS:

2010:

February 18	Kane County Small Wind Open House
February 23	Illinois Farm Bureau Leadership Conference
March 17	Illinois R&D Day at the State Capitol
April 10	Illinois Sustainability and Wellness Expo at IWU
May 19	US Green Building Council
May 22-26	AWEA Windpower 2010
June 26	ISU's Solar Car Team Mercury at the Children's Discovery Museum
August 31	Wind Energy Conference: Opportunities for Suppliers by Fabricators & Manufacturers Association
September 9	Sculptures in the Garden at Illinois State University's Horticultural Center
September 10-11	Central Illinois Green Expo Day
October 28-30	Illinois Energy Expo

2011:

February 23	Illinois Farm Bureau
April 9	Illinois Sustainable Expo
September 17	Green Fair
October 28	Illinois Science Education Conference
November 5	Illinois Science & Teachers Association

Accomplishments

Summarize the project accomplishments in relation to the project objectives including process/product development, technology transfer, and commercialization activities. It can include a listing of:

- Publications in scientific/ trade journals, conference proceedings etc

- Web site or other Internet sites that reflect the results of this project

- Other products (e.g. software, data bases, inventions)

- Patents – granted, applications, or disclosures; licensing agreements, etc.

Theron, S., Winter, J.R, **Loomis, D. G.**, & Spaulding, A. D. (2011). Attitudes Concerning Wind Energy in Central Illinois. *Journal of the America Society of Farm Managers and Rural Appraisers*, 74, 120-128.

Conclusions

Besides presenting conclusions based on scientific/ technical findings, address commercialization aspect also – summarizing plan/status or identifying barriers and if applicable, lessons learned.

There are no scientific findings beyond the published article described above.

Recommendations

May include recommendation for commercialization path, need for follow up R&D work or demonstration

Not Applicable.

References and/or **Bibliography** (whichever is appropriate)

Appendices

Include detailed data and calculations etc, if they would be helpful in understanding the discussion of the results.