



Illinois Wind for Schools

Application Guidelines

The Illinois Wind for Schools (ILWFS) program offers curriculum development resources, teacher professional development, on-site technical assistance and instructional equipment to Middle School and High School teachers across the state of Illinois to incorporate wind energy topics into the classroom. The ILWFS program addresses Illinois Learning Standards Goals 7 and 10 in Mathematics (Estimation and Measurement; Data Analysis and Probability), and Goals 11, 12 and 13 in Science (Inquiry and Design; Concepts and Principles; Science, Technology and Society).

The Illinois Wind for Schools staff is comprised of expert personnel from the Illinois Institute for Rural Affairs at Western Illinois University, the Department of Engineering Technology at Western Illinois University, the Center for Renewable Energy at Illinois State University, and the College of Education at Illinois State University.

Purpose

- To engage Illinois school teachers and students in energy education, specifically targeting wind energy.
- To educate students with the knowledge of wind energy principles to provide the growing U.S. wind industry with the next generation of career and technical professionals.
- To provide technical assistance to Illinois school administrators on renewable energy integration in school facilities.

General Information

Through an application process, three to five middle and/or high schools will be selected as ILWFS partner schools for each school year. The ILWFS program includes on-site training workshops at each partner school, curricula and lesson plans, equipment for hands-on activities, basic supplies, and an on-site workshop for all participating teachers. CPDUs will be offered for all ILWFS required teacher training sessions.

The program timeline for the 2012-2013 school year begins with an early summer 2012 teacher workshop held on site at each partner school. Topics of the workshop will include fundamentals of wind energy, principles of wind turbine operation, and ideas for integrating wind energy into the existing curriculum. During summer 2012, all participating schools will receive a classroom set of

experimental model wind turbines, equipment with which to build and test the model wind turbines, a pack of experimental weather balloons, a model wind tunnel and customized lab activities, and a comprehensive wind energy curriculum. The wind energy curriculum includes lesson plans in five distinct areas: Energy & Electricity, Wind & Weather, Turbines & Engineering, Environmental Considerations, and Economics. In fall 2012, the ILWFS staff will install scientific weather instrumentation on the school grounds at each partner school. Teachers and students will be able to easily access data collected by the weather instrumentation using any internet connection. Wind energy lessons will be integrated into the existing curriculum at teachers' discretion throughout the school year. The program will conclude in spring 2013.

A grant from the Illinois Department of Commerce and Economic Opportunity (DCEO) makes it possible to provide the ILWFS program, including all training, curriculum, and equipment described above, at no charge to schools selected for the program. Participating teachers will be required to attend the on-site workshop, and maintain communication with Illinois Wind for Schools staff with evaluation and feedback of the lab activities, curriculum, and equipment throughout the 2012-2013 school year.

Eligible Applicants

- Middle School and High School teachers in Illinois public school districts from the math, science, agriculture, industrial technology, engineering and related subject disciplines who are excited to teach project-based learning curriculum and have interest in cross curriculum implementation.

Application Deadline

Applications are due **March 1, 2012**. Schools selected for the program will be notified by **April 2, 2012**. Submit application package to contact@ILWFS.org by **March 1, 2012**.

For questions regarding the Illinois Wind for Schools program, contact either:

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The Illinois Wind for Schools program is funded by a grant from the Illinois Department of Commerce and Economic Opportunity.





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APPLICATION FORM

Submit the completed application to contact@ILWFS.org by **March 1, 2012**. Application package must include signatures and required attachments to be eligible for consideration.

A. School and District Information

School Name: _____

Street Address: _____

City: _____ State: IL Zip: _____ County: _____

Phone: _____ Fax: _____

School District: _____

School Building Enrollment: _____ Grade Levels at Building: _____

School District Total Enrollment: _____ School Website: _____

B. Primary Applicant Contact Information

Primary Applicant Name (must currently be employed as a full-time teacher at the school)

Subject Area

Grade Level

Phone

Email

c. **School Profile Information** *Please respond to questions 1-5 in an attached document.*

1. Does your school district currently have any installed renewable or alternative energy projects, e.g. wind, solar, geothermal? If Yes, please describe; if No, please describe any current planning efforts to incorporate renewable energy into the district's energy portfolio.
2. Has your school district participated in any previous partnerships in energy education or specialized teacher training in energy or renewable energy?
3. Does the school district participate in Project Lead the Way? If yes, please describe.
4. Please attach an aerial view of the school grounds from an online mapping service, e.g. Google Earth. If your school district has multiple sites, please provide a separate map for each facility or campus.
5. To achieve maximum impact, the Illinois Wind for Schools program encourages collaboration among a variety of subject areas. Please list all collaborating teachers by name, subject area, and grade level.

D. Official Applicant Acknowledgements

The ILWFS instructional equipment, curriculum resources, teacher professional development, and technical assistance are free of charge to the partner school. ILWFS participating teachers will be required to attend the on-site workshop, and maintain communication with the ILWFS staff with evaluation and feedback of the lab activities, curriculum, and equipment throughout the 2012-2013 school year.

Teacher Acknowledgement Statement:

I have read and acknowledged the time commitment required and agree to this format. (Please have all collaborating teachers print their names and sign below.)

School Administrator Support Statement:

I have reviewed the completed application and support the applicant and collaborating teachers to participate in the Illinois Wind for Schools program. I have read and acknowledged the ILWFS Application Guidelines and agree to the program format and commitments.

Signature of Superintendent

Date

Phone

Email

Signature of Building Principal

Date

Phone

Email



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