

Wisconsin K-12 Energy Education Program



Sara Windjue
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Goal

To improve and increase energy education in Wisconsin's K-12 schools.

Mission

To initiate and facilitate the development, dissemination, implementation, and evaluation of energy education programs within Wisconsin schools.

Wisconsin K-12 Energy Education Program (KEEP)

Collaboration

- ✦ Wisconsin Center for Environmental Education at UW-Stevens Point
- ✦ Focus on Energy
- ✦ Wisconsin Utilities
- ✦ Midwest Renewable Energy Association

Background

- Partnerships
- Conceptual Framework
- *KEEP Activity Guide*
- University Credited Graduate Courses
- Adjunct Faculty statewide

Program Areas

Professional Development

- 6 graduate level courses
- Workshops/trainings

Student Involvement

- Bright Idea Fundraiser
- Student-built Homes
- Bookmark contest
- Wisconsin Electrathon
- Annual Awards Ceremony

Funding Opportunities

- WEEB
- Bright Idea Fundraiser
- Conference and Workshop support

Resources

- Activity Guides and Supplements
- Pedal Power energy bike
- Hand-crank Generator
- Energy Education Trunk

Networking and Outreach

- Conferences
- Newsletter
- Electronic bulletin
- Web site

Professional Development

- Graduate Level Courses
 - NRES 730: Energy Education in the Classroom
 - NRES 731: Selected Topics in Energy Education
 - NRES 732: Doable Renewables: Renewable Energy Education in the Classroom
 - NRES 733: Energy Education: Concepts and Practices (online)
 - NRES 734: School Building Energy Efficiency Education
 - NRES 735: Renewable Energy Education (online)
- *Better Buildings: Better Business* Conference
- Workshops/trainings



Career Concepts

- Many occupations, businesses, and public services—such as utilities—result from the development and use of energy resources.
- New types of societies—such as a sustainable society or a postindustrial society whose economy is based on information and service—may emerge as energy resource development and use changes.

Career-Related Activities

“Catch That Wind”

Summary

Students sequence career titles of those responsible for siting, installing, and maintaining a wind farm.

Objectives

Students will be able to

- organize career titles of people involved in constructing, siting, planning, and maintaining a wind farm;
- describe what is involved in getting electricity from a wind farm; and
- appreciate that any energy resource they use is made available by the work of many people.



Professional Development

Educator Tent

at the
Midwest
Renewable Energy
Association's
annual

Energy Fair



Student Involvement



Wisconsin ENERGY STAR®
Homes

Student Involvement

Home Performance with
ENERGY STAR®



Renewable Ready
Homes



Student Involvement

Student Builders of the Year



Student Involvement

Wisconsin Electrathon

The goal of the Wisconsin Electrathon is to bring attention to the environmental problems of conventional cars and demonstrate the viability of electric vehicles.



Student Involvement

Annual Bookmark Contest



2002: Energy Challenges/ Energy Opportunities

2003: Doable Renewables: Renewable Energy in My Community

2004: Energy Superheroes: The Quest for an Energy Efficient Planet

2005: Energy Efficient Schools: My School First

2006: Grass, Gas, Biomass: How Does Biomass Work in Wisconsin?

2007: Career Connections: Energy at Work

2008: Safe Routes to School: Alternative Transportation



Resources

- Guest Speakers
- Field Trips
- Careers page
- Hands-on explorations



Contact Information

KEEP: Wisconsin K-12 Energy Education Program

715.346.4770

www.uwsp.edu/keep

Focus on Energy

800.762.7077

www.focusonenergy.com

Wisconsin Center for Environmental Education

715.346.4973

www.uwsp.edu/wcee