



TEACHER WORKSHOP REQUEST FORM

The Virginia Center for Wind Energy (VCWE) at James Madison University is happy to offer workshops to teachers around Virginia related to wind energy. The National Energy Education Development (NEED) has a large portfolio of SOL aligned activities that teach the science of energy, energy resources, and energy efficiency. The Wind Energy sections serve as a basis for the Wind for Schools program. NEED’s Wind Kits – available at 4 levels will be hosted on-site at VCWE and are available for loan to schools. The WindWise Education, a partnership of the KidWind Project and Normandeau Associates, is another curriculum that addresses concepts in wind energy for middle and high school audiences. WindWise Education inspires students to learn about today’s real-world energy issues by engaging them in innovative, hands-on activities related to wind energy. Wind kits from WindWise are also available for loan through VCWE. VCWE can also coordinate teacher trainings on the Kilowatt Ours Curriculum, Project Learning Tree Energy and Society, and GLOBE protocol for weather and water.

This form simply requests a date and potential topic for a workshop. Once the VCWE staff receives the request we will contact you to work with you to confirm a date and time and develop a customized plan for your workshop. **Please email or fax the completed form to VCWE.**

CONTACT INFORMATION

Name	School Name
Email	Subject areas educators teach
Cell Phone (for day of travel)	Grade levels taught

Does your school have wind technology on campus?
(Check one)

- Y
- N

If yes, are you a: (check one)

- WfS Host (turbine) School
- WfS Partner (Met tower) School
- Affiliate School

WORKSHOP INFORMATION

Date requested (give a couple options)	Time requested (give a couple options)
Length of time for workshop	Number of Teachers participating

Where would you like to hold this workshop?

- JMU (access to wind and solar technology)**
- Your school (travel support would be needed)**
- Other, Please specify _____**

Type of workshop requested: (check all interested in)

- NEED**
- WindWise**
- Other – please specify**

Would you like teachers to earn CEU credits for this workshop?

- Y**
- N**

Activities you are interested in learning about*: (Check all interested in)

Energy Use/Conservation

- Energy Round-Up (NEED)
 - Map Extension Activity
- Kilowatt Ours video
- Your Personal Energy Survey (Kilowatt Ours)
- Energy Saving Mystery (Kilowatt Ours)
- Electricity Investigation (Kilowatt Ours)
- Energy Audit (Washington State University)

Solar

- Solar coloring page
- Solar Energy Relay (VCWE)
- Solar oven (pizza box)
- Solar cooker (shoe box)
- Solar hot water cups (VCWE)
- Solar cell investigation stations (adapted from NEED)
- eLab Solar Car (LEGO)
- eLab Solar Powered Ferris Wheel (LEGO)

Wind

COLORING PAGES

- Global Wind
- Wind turbine
- Wind Activity Book

INTRODUCTORY ACTIVITIES

- On the Move (sailboat)
- Pie Plate Windmaker
- Make a Pinwheel
 - Wind can do work (NEED)

MEASURING THE WIND

- Create a Kite (VCWE)
- Make a Wind Sock (NASA)
 - Map Extension Activity
- Build an Anemometer to Measure Wind Speed (NEED/NOAA)
 - Map Extension Activity
- Where is it Windy? (WindWise)

PROJECT SITING & COMMUNITY IMPACTS

- Mini Wind Farm (KidWind)
- Siting a Wind Farm (NEED)
 - Map Extension Activity
- Offshore Wind Farm Siting (WindWise)
- Impact on Birds and Bats (WindWise)

HOW WIND TURBINES WORK

- Wind Turbine Blade Design Challenge (VCWE)
- Blade Characteristic Testing Stations (VCWE)
- Blade Testing and Analysis (VCWE)
- Build a Vertical Axis Wind Turbine
- eLab Windmill (LEGO)

**For more information on all activities and kits see our websites:*

<http://wind.jmu.edu/education/activities.html> AND <http://wind.jmu.edu/education/lendinglibrary.html>