



# Wind Energy Information Guide 2003

Wind power is currently the fastest growing energy technology. An increasing number of people from electric utilities, news media, research institutions, political and regulatory bodies, and local communities are searching for up-to-date, accurate information on this clean, renewable energy source. This listing, compiled by the American Wind Energy Association, provides a range of general and technical information about wind energy.

---

## General Information

### **American Wind Energy Association (AWEA)**

122 C Street, NW, Suite 380

Washington, D.C. 20001

Phone: (202) 383-2500

Fax: (202) 383-2505

E-mail: [windmail@awea.org](mailto:windmail@awea.org)

Web site: <http://www.awea.org>

### **U.S. Department of Energy National Renewable Energy Laboratory (NREL) and National Wind Technology Center (NWTC)**

1617 Cole Boulevard

Golden, CO 80401-3393

Phones: (303) 275-3000

(303) 384-6922

Fax: (303) 384-7097

Contact: Robert Thresher

E-mail: [robert\\_thresher@nrel.gov](mailto:robert_thresher@nrel.gov)

Web site: <http://www.nrel.gov/wind>

### **U.S. Department of Energy**

#### **Wind Powering America Initiative**

Phone: (303) 384-6910

Contact: Lawrence Flowers (NREL)

E-mail: [lawrence\\_flowers@nrel.gov](mailto:lawrence_flowers@nrel.gov)

Web site: <http://www.eere.energy.gov/windpoweringamerica/>

### **U.S. Department of Energy**

#### **Energy Efficiency and Renewable Energy**

1000 Independence Ave, SW

Washington, D.C. 20585

Phone: (202) 586-9220

Fax: (202) 586-9260

Web site:

<http://www.eere.energy.gov/RE/wind.html>

### **Kern Wind Energy Association (KWEA)**

P.O. Box 277, Tehachapi, CA 93581

Phone: (661) 822-7956

Fax: (661) 331-3868

E-mail: [kweawhite@aol.com](mailto:kweawhite@aol.com)

## **National Wind Coordinating Committee**

c/o Resolve  
1255 23d Street, NW, Suite 275  
Washington, D.C. 20037  
Phones: (888) 764-WIND  
(202) 965-6398  
Fax: (202) 338-1264  
E-mail: [nwcc@resolv.org](mailto:nwcc@resolv.org)  
Web site: <http://www.nationalwind.org>

## **Utility Wind Interest Group (UWIG)**

2111 Wilson Boulevard, Suite 323  
Arlington, VA 22201-3001  
Phone: (703) 351-4492 ext 121  
Fax: (703) 351-4495  
E-mail: [karenl@electrotek.com](mailto:karenl@electrotek.com)  
Web site: <http://www.uwig.org>

# *Wind and Renewable Energy:*

---

## **Center for Energy Efficiency & Renewable Technologies (CEERT)**

1100 Eleventh Street, Suite 311  
Sacramento CA 95814  
Phone: (916) 442-7785  
Fax: (916) 447-2940  
E-mail: [info@ceert.org](mailto:info@ceert.org)  
Web site: <http://www.ceert.org>

## **Minnesotans for an Energy-Efficient Economy (ME3)**

Minnesota Building, Suite 600  
46 East Fourth Street  
St. Paul, MN 55101  
Phone: (651) 225-0878  
Fax: (651) 225-0870  
E-mail: [info@me3.org](mailto:info@me3.org)  
Web site: <http://www.me3.org>

## **Center for Renewable Energy and Sustainable Technology/Renewable Energy Policy Project (CREST/REPP)**

REPP: 1612 K Street, NW, Suite 202,  
Washington, D.C. 20006  
Phone: (202) 293-2898  
Fax: (202) 293-5857  
Contact: Mary Kathryn Campbell  
E-mail: [mkcampbell@repp.org](mailto:mkcampbell@repp.org)  
REPP Web site: <http://www.repp.org>  
CREST Web site: <http://www.crest.org>

## **Renewable Northwest Project (RNP)**

917 SW Oak Street, Suite 303  
Portland, OR 97205-2214  
Phone: (503) 223-4544  
Fax: (503) 223-4554  
E-mail: [renewables@rnp.org](mailto:renewables@rnp.org)  
Web site: <http://www.rnp.org>

## **Western Resources Advocates**

(formerly Land and Water Fund)  
2260 Baseline Rd., Suite 200  
Boulder, CO 80302  
Phone: (303) 444-1188  
Fax: (303) 786-8054  
E-mail: [info@westernresources.org](mailto:info@westernresources.org)  
Web site:  
<http://www.westernresourcesadvocates.org>

## **Texas Renewable Energy Industries Association (TREIA)**

P.O. Box 16469  
Austin, TX 78761-6469  
Phone: (512) 345-5446  
Fax: (512) 345-6831  
Contact: Russel Smith  
E-mail: [r1346@aol.com](mailto:r1346@aol.com)  
Web site: <http://www.treia.org>

## **Union of Concerned Scientists (UCS)**

2 Brattle Square  
Cambridge, MA 02238

Phone: (617) 547-5552  
Fax: (617) 864-9405  
E-mail: [ucs@ucsusa.org](mailto:ucs@ucsusa.org)  
Web site: <http://www.ucsusa.org>

**California Energy Commission**  
1516 Ninth Street  
Sacramento, CA 95814-5512  
Phone: (800) 555-7794  
(916) 654-4058  
E-mail: [renewable@energy.state.ca.us](mailto:renewable@energy.state.ca.us)  
Web site:  
<http://www.energy.ca.gov/renewables/>

## University Programs & Research Institutes

**University of Alaska**  
Alaska Cooperative Extension  
PO Box 756180, Fairbanks, AK 99775-6180  
Phone: (907) 474-7201  
Fax: (907) 474-5139  
Contact: Richard Seifert  
E-mail: [ffrds@uaf.edu](mailto:ffrds@uaf.edu)

**University of Arizona**  
Aerospace and Mechanical Engineering  
1130 N. Mountain, P.O. Box 210119  
Tucson, AZ 85721  
Phone: (520) 621-2235  
Fax: (520) 621-8191  
Contact: Linda Sulvaine  
Web site: <http://www.ame.arizona.edu>

**Center for Renewable Energy Systems  
Technology (UK)**  
AMREL Building, Loughborough  
University  
LE 11 3 TU U.K.  
Phone: 44-1509-223466  
Fax: 44-1509-610031  
Contact: Dr. Julian Feuchtwang  
E-mail: [j.b.feuchtwang@lboro.ac.uk](mailto:j.b.feuchtwang@lboro.ac.uk)  
Web site: <http://www.lboro.ac.uk/crest>

**Delft University of Technology**  
Wind Energy Section, Faculty of Civil  
Engineering and Geosciences  
Delft University of Technology  
Stevinweg 1  
2628 CN Delft  
The Netherlands  
Phone: +31 (15) 278 5170  
Fax: +31 (15) 278 5347  
E-mail: [windenergy@citg.tudelft.nl](mailto:windenergy@citg.tudelft.nl)  
Web site:  
<http://www.windenergy.citg.tudelft.nl/home/flash/index.html>

**Deutsches Windenergie Institut (DEWI)  
(German Wind Energy Institute)**  
Ebertstrasse 96, D-26382 Wilhelmshaven  
Phone: 49-0-4421-4808-0  
Fax: 49-0-4421-4808-43  
E-mail: [dewi@dewi.de](mailto:dewi@dewi.de)  
Web site (includes English):  
<http://www.dewi.de>

**Universidade Federal do Para**  
PO Box 8619, Ag. Nucleo Universitario,  
Belem, Para, 66075-900, Brazil  
Phone: +55 912 111 299  
Fax: +55 912 111 299  
Contact: Dr. Joao Tavares Pinho  
E-mail: [jtpinho@guama.cpgee.ufpa.br](mailto:jtpinho@guama.cpgee.ufpa.br)

**Grinnell College**

Dean and V.P. for Academic Affairs,  
Nollen House, Grinnell College  
Grinnell, IA 50112-0806  
Phone: (641) 269-3100  
Fax: (641) 269-4284  
Contact: Jim Swartz  
E-mail: [swartz@grinnell.edu](mailto:swartz@grinnell.edu)

**Iowa State University**

Department of Aerospace Engineering,  
404 Town Engineering Building,  
Ames, IA 50011  
Phone: (515) 294-6796/9647  
Fax: (515) 294-3262  
Contact: R Ganesh Rajagopalan  
E-mail: [rajagopa@iastate.edu](mailto:rajagopa@iastate.edu)  
Web site:  
<http://www.public.iastate.edu/~winden/>

**Istanbul Technical University**

Faculty of Aeronautics/Astronautics  
Maslak, Istanbul, 80626, Turkey  
Phone: +011 (90) 21 22 853 124  
Fax: +011 (90) 21 22 852 926  
Contact: Dr. Suleyman Tolun  
E-mail: [tolun@itu.edu.tr](mailto:tolun@itu.edu.tr)

**University of Massachusetts**

Renewable Energy Research Laboratory  
College of Engineering, E Lab Building  
Amherst, MA 01003  
Phone: (413) 545-4359  
Fax: (413) 545-1027  
Contact: Dr. James Manwell  
E-mail: [manwell@ecs.umass.edu](mailto:manwell@ecs.umass.edu)  
Web site:  
<http://www.ecs.umass.edu/mie/labs/rerl>

**Meteorological Standards Institute**

PO Box 26, Fox Island, WA 98333  
Phone: (253) 549-2179  
Fax: (253) 549-4082  
Contact: Thomas J. Lockhart, President  
E-mail: [lockhart@harboret.com](mailto:lockhart@harboret.com)

**Montana State University**

Department of Chemical Engineering,  
Wind Energy Program,  
302 Cobleigh Hall  
P.O. Box 173920  
Bozeman, MT 59717-3920  
Phone: (406) 994-4543  
Fax: (406) 994-5308  
Contact: Prof. John Mandell  
E-mail: [johnm@coe.montana.edu](mailto:johnm@coe.montana.edu)

**University of Nebraska**

School of Natural Resource Sciences,  
High Plains Climate Center,  
830728 L.W. Chase Hall  
Lincoln, NE 68583-0728  
Phone: (402) 472-6706  
Fax: (402) 472-6614  
Web site: <http://hpccsun.unl.edu/wind/>

**New Mexico State University  
Southwest Technology Development  
Institute**

Department 3 SOL, Box 30001, Las Cruces,  
NM 88003-8001  
Phone: (505) 646-1450  
Fax: (505) 646-3841  
Contact: Robert Foster, Project Engineer  
E-mail: [rfoster@nmsu.edu](mailto:rfoster@nmsu.edu)

**North Dakota Geographic Alliance**

Minot State University  
500 University Avenue West,  
Minot, ND 58707  
Phone: (701) 858-3063  
Fax: (701) 858-3165  
Contact: Dr. Eric Clausen  
E-mail: [clausen@warp6.cs.misu.nodak.edu](mailto:clausen@warp6.cs.misu.nodak.edu)

**University of North Dakota**

Energy and Environmental Research  
Center  
PO Box 9018, Grand Forks, ND 58202-9018  
Phones: (701) 777-5000/5293  
Fax: (701) 777-5181  
Contact: Bradley G. Stevens  
E-mail: [bstevens@undeerc.org](mailto:bstevens@undeerc.org)  
Web site: <http://www.eerc.und.nodak.edu/>

**Ohio State University**

Aero & Astronautical Research  
Laboratory, 2300 W. Case Road,  
Columbus, OH 43235  
Phone: (614) 292-5491  
Fax: (614) 292-5552  
Contact: Robyn Reuss Ramsay  
E-mail: [ramsay.16@osu.edu](mailto:ramsay.16@osu.edu)  
Web site: <http://aarl.s.eng.ohio-state.edu/>

**Oregon State University  
Wind Research Cooperative**

Mechanical Engineering Department,  
Corvallis, OR 97331-6001  
Phone: (541) 737-2027  
Fax: (541) 737-2600  
Contact: Stel N. Walker  
E-mail: [walkerst@engr.orst.edu](mailto:walkerst@engr.orst.edu)  
Web site:  
<http://www.me.orst.edu/WRC/index.html>

**Risoe National Laboratory**

Wind Energy & Atmospheric Physics Dept  
Frederiksborgvej 399, Build. 125,  
PO Box 49,  
DK-4000 Roskilde  
Denmark  
Phone: 45-4677 5000  
Fax: 45-4677 5970  
E-mail: [vea@risoe.dk](mailto:vea@risoe.dk)  
Web site: <http://www.risoe.dk/>  
(in English)

**Rutherford Appleton Laboratory**

Energy Research Unit  
Chilton, Didcot, Oxfordshire  
UK OX11 0QX  
Phone: 44 1235 445559  
Fax: 44 1235 446863  
Contact: Dr. Jim Halliday  
E-mail: [J.A.Halliday@rl.ac.uk](mailto:J.A.Halliday@rl.ac.uk)  
Web site: <http://www.era.rl.ac.uk>

**Sandia National Laboratories**

P.O. Box 5800  
Albuquerque, NM 87185-1380  
Phones: (505) 844-4902  
(505) 843-4164  
Fax: (505) 845-9500  
Web site: <http://www.sandia.gov/wind>

**University of Texas at El Paso**  
Department of Mechanical & Industrial  
Engineering,  
500 W. University Ave., Room 101-H,  
El Paso, TX 79968-0521  
Phone: (915) 747-6905  
Fax: (915) 747-5019  
Contact: Rick Zadoks  
E-mail: [zadoks@oldoc.me.utep.edu](mailto:zadoks@oldoc.me.utep.edu)  
Web site: [http://www.utep.edu/  
meandie/welcome.html](http://www.utep.edu/meandie/welcome.html)

**U.S. Department of Agriculture  
Agricultural Research Service**  
P.O. Drawer 10  
Bushland, TX 79012  
Phone: (806) 356-5734  
Fax: (806) 356-5750  
Contact: Nolan Clark  
E-mail: [rnclark@cprl.ars.usda.gov](mailto:rnclark@cprl.ars.usda.gov)

**University of Utah**  
Department of Mechanical Engineering,  
3209 Merrill Engineering Building,  
Salt Lake City, UT 84112  
Phone: (801) 581-4145  
Fax: (801) 581-8692  
Contact: Craig Hansen  
E-mail: [hansen@me.mech.utah.edu](mailto:hansen@me.mech.utah.edu)  
Web site: <http://www.mech.utah.edu/>

**Washington and Lee University**  
Department of Physics and Engineering,  
109 Parmly Hall, Lexington, VA 24450  
Phone: (540) 463-8883  
Fax: (540) 463-8884  
Contact: Dr. Robert Akins  
E-mail: [akinsr@wlu.edu](mailto:akinsr@wlu.edu)  
Web site: <http://www.lwu.edu/>

**West Texas A&M University  
Alternative Energy Institute**  
2402 4<sup>th</sup> Avenue  
WTAMU, Box 248  
Canyon, TX 79016  
Phone: (806) 651-2295  
Fax: (806) 651-2733  
E-mail: [aeimail@mail.wtamu.edu](mailto:aeimail@mail.wtamu.edu)  
Web site: <http://www.wtamu.edu/research/aei/>

***International Wind Energy Associations***

**Agence de l'Environnement et de la  
Maitrise de l'Energie (ADEME)**

27, rue Louis Vicat, F-75737

Paris Cedex 15, France

Phone: +33 01 47 65 2000

Fax: +33 01 46 45 5236

Web site: <http://www.ademe.fr/>

**Australian Wind Energy Association  
(AusWEA)**

GPO Box 4499

Melbourne VIC 3001

Australia

Phone: +61 3 9663 2323

Fax: +61 3 9663 2040

E-mail: [info@auswea.com.au](mailto:info@auswea.com.au)

Web site: <http://www.auswea.com.au/>

**British Wind Energy Association (BWEA)**

26 Spring Street, London, W2 1JA, UK

Phone: +44 020 7402 7102

Fax: +44 020 7402 7107

E-mail: [info@bwea.com](mailto:info@bwea.com)

Web site: <http://www.bwea.com>

**Bundesverband WindEnergie e.V.  
(BWE)**

German Wind Energy Association

Herrenteichsstrasse 1,

49074 Osnabrueck, Germany

Phone: +49 541 35060-0

Fax: +49 541 35060-30

E-mail: [bwe-osnabrueck@wind-energie.de](mailto:bwe-osnabrueck@wind-energie.de)

Web site: <http://www.wind-energie.de>

**Canadian Wind Energy Association /  
L'association canadienne d'énergie  
éolienne (CanWEA)**

3553-31 Street NW, Suite 100

Calgary, Alberta T2L 2K7, Canada

Phones: 1-800-9CANWEA

(1-800-922-6932)

(01) (403) 851-0836

Fax: (01) (403) 851 0834

E-mail: [contact@canwea.ca](mailto:contact@canwea.ca)

Web site: <http://www.canwea.ca>

**Danish Wind Industry Association**

Vester Voldgade 106, DK 1552

Copenhagen V, Denmark

Phone: +45 33 73 0330

Fax: +45 33 73 0333

E-mail: [danish@windpower.dk](mailto:danish@windpower.dk)

Web site: <http://www.windpower.dk>

**European Wind Energy Association  
(EWEA)**

Rue du Trone 26

B-1000 Brussels

Belgium

Phone: +32 2 546 1940

Fax: +32 2 546 1944

E-mail: [ewea@ewea.org](mailto:ewea@ewea.org)

Web site: <http://www.ewea.org>

**Finnish Wind Power Association**

Suomen Tuulivoimayhdistys ry

PL 846, 00101 Helsinki, Finland

Phone: +358 040 771-6114

Fax: +358 09 1929 4129

E-mail: [tuuli@tuulivoimayhdistys.fi](mailto:tuuli@tuulivoimayhdistys.fi)

Web site (in Finnish and English):

<http://www.tuulivoimayhdistys.fi>

**France Energie Eolienne**

c/o EAF Centre d'Affaires La Boursidiere  
BP 48 92357 Le Plessis Robinson, France  
E-mail: [info@fee.asso.fr](mailto:info@fee.asso.fr)  
Web site: <http://www.fee.asso.fr/>

**Hellenic Wind Energy Association**

19<sup>th</sup> klm. Marathonos Ave.  
190 09 Pikermi, Athens  
Phone: +30 1 603-9900  
Fax: +30 1 603-9905  
E-mail: [dounaki@cres.gr](mailto:dounaki@cres.gr)

**Indian Wind Energy Association**

Mahaveer Apartments, 4A/S-11 East  
Coast Road, TIRUVANMIYUR,  
CHENNAI, India 600 041  
Phone: (091)(044) 24410333  
Fax: (091)(044) 24402537  
Mobile : 98400 56641  
E-mail: [secretary@indianwindpower.com](mailto:secretary@indianwindpower.com)  
Web site: <http://www.indianwindpower.com>

**Irish Wind Energy Association**

Arigna  
Carrick on Shannon  
County Roscommon  
Ireland  
Phone: 00353 (0) 71 964-6072  
Fax: 00353 (0)71 964-6080  
E-mail: [office@iwea.com](mailto:office@iwea.com)  
Web site: <http://www.iwea.com/>

**Japanese Wind Energy Association**

c/o Japan Science Foundation  
2-1 Kitanomaru-koen Chiyodaku  
Tokyo, Japan  
Phone: +81 33212 8487  
Fax: + 81 33212 0014  
E-mail: [\\_jwea@jsf.or.jp](mailto:_jwea@jsf.or.jp)  
Web site (in Japanese):  
<http://ppd.jsf.or.jp/shinko/jwea>

**South African Wind Energy Association  
(SAWEA)**

PO Box 13,  
Darling, 7345, South Africa  
Phone & Fax: +27 22 492 2806  
E-mail: [sawea@icon.co.za](mailto:sawea@icon.co.za)  
Web site: <http://sawea.www.icon.co.za>

**New Zealand Wind Energy Association  
(NZWEA)**

PO Box 553, Wellington, New Zealand  
Phone: +64 4 586-2003  
Fax: +64 4 586-2004  
Email: [info@windenergy.org.nz](mailto:info@windenergy.org.nz)  
Web site: <http://www.windenergy.org.nz>

# Additional Web Sites

## State-by-State Information:

A listing of state and local sites:

<http://www.eere.energy.gov/RE/wind-state.html>

Your region and state's wind energy potential:

<http://www.nrel.gov/wind/>

A very useful listing of web sites on energy issues in your state:

<http://www.serve.com/commonpurpose/yourstate.html>

"Database of state incentives for renewable energy":

<http://www.dsireusa.org/>

"Your state's energy profile":

[http://www.eia.doe.gov/emeu/states/\\_states.html](http://www.eia.doe.gov/emeu/states/_states.html)

"Deregulation in your state":

[http://www.eia.doe.gov/cneaf/electricity/chg\\_str/regmap.html](http://www.eia.doe.gov/cneaf/electricity/chg_str/regmap.html)

"How much do your electricity purchases pollute in your state":

[http://www.edf.org/programs/energy/green\\_power/x\\_calculator.html](http://www.edf.org/programs/energy/green_power/x_calculator.html)

"Pollution in your state":

<http://www.scorecard.org>

"Acid rain emissions data for power plants":

<http://www.epa.gov/acidrain/emission/index1.htm>

"Global warming in your state":

<http://www2.vivid.net/~ses/co2.html>

## Wind Resources:

National Renewable Energy Laboratory:

*Wind Resource Atlas of the United States*

<http://rredc.nrel.gov/wind/pubs/atlas/>

Wind in Illinois:

[http://www.eren.doe.gov/windpoweringamerica/where\\_is\\_wind\\_illinois.html](http://www.eren.doe.gov/windpoweringamerica/where_is_wind_illinois.html)

Wind in Minnesota:

Wind maps are available at

<http://www.state.mn.us/cgi-bin/portal/mn/jsp/content.do?id=-536881350&subchannel=-536881511&sc2=null&sc3=null&contentid=536887066&contenttype=EDITORIAL&programid=536885398&agency=Commerce>.

An at-a-glance map is also available at

<http://www.mda.state.mn.us/crp/wind.htm>.

Wind in Oklahoma:

Oklahoma Wind Power Initiative

<http://www.seic.okstate.edu/owpi/>

Wind in the Northwest:

<http://www.windmap.org/default.asp>

National Climatic Data Center:

<http://www.ncdc.noaa.gov>

## Renewable Energy:

REASN (new, comprehensive interactive Web site on renewable energy maintained by the National Renewable Energy Laboratory's Renewable Energy Analysis Studies Network):  
<http://www.nrel.gov/reasn>

## Climate Change:

Climate change links portal:

<http://www.climateark.org/links/>

**Searchable Directory of Wind and Renewable Energy Companies and Products Worldwide:**

"The Source for Renewable Energy"

<http://energy.sourceguides.com/index.shtml>

**Project evaluation software:**

An evaluation tool developed by the Department of Natural Resources of Canada:

[http://cedrl.mets.nrcan.gc.ca/retscreen/ang/g\\_wi\\_n.html](http://cedrl.mets.nrcan.gc.ca/retscreen/ang/g_wi_n.html)

**Green Power:**

Green Power Network: The most comprehensive site on green power in the U.S., maintained by the National Renewable Energy Laboratory for the U.S. Department of Energy:

<http://www.eren.doe.gov/greenpower>.

**Rating organizations:**

Center for Resource Solutions

Green-E

Presidio Building 49

Moraga Avenue

P.O Box 29512

San Francisco. CA 94129

Phone: (888) 634-7336

Fax: (415) 561-2105

<http://www.green-e.org/>

Environmental Resources Trust

1700 K Street, NW, Suite 703

Washington, D.C. 20006

Phone: (202) 785-8577

E-mail: [info@ert.net](mailto:info@ert.net)

Web site: <http://www.ert.net/>

Power Scorecard:

Rating mechanism that assesses the environmental impact of different types of electric generation.

<http://www.powerscorecard.org>.

**Regional green power promotion:**

Clean Energy Challenge: Northwest regional campaign urging commercial, industrial, and government electricity users to buy green power.

<http://www.rnp.org/htmls/greenbus.htm>.

Interstate Renewable Energy Council:

IREC's mission is to accelerate the sustainable utilization of renewable energy in and through state and local government and community activities.

<http://www.irecusa.org>.

American Green Network: Sustainable energy advocacy organization dedicated to promoting America's cleanest energy choices.

<http://www.americangreen.org>.

Georgians for Clean Energy: Public education, legislative advocacy, and constituency building.

<http://www.cleanenergy.ws>.

Montana Green Power: A guide to renewable energy in Montana.

<http://www.montanagreenpower.com>.

Renew Wisconsin: Nonprofit organization promoting clean energy strategies to powering the state's economy in an environmentally responsible manner.

<http://www.renewwisconsin.org>.

Southern Alliance for Clean Energy:

Coalition of environmental and citizen organizations promoting green energy in the Tennessee Valley region

<http://www.tngreen.com/cleanenergy>.

## **Environmental advocacy/energy:**

### Environmental Defense:

<http://www.environmentaldefense.org/programs/Energy/>.

Sierra Club: <http://www.sierraclub.org/energy/>.

### Natural Resources Defense Council:

<http://www.nrdc.org/air/energy/default.asp>.

Clear the Air (joint project of the Clean Air Task Force, National Environmental Trust and the U.S. PIRG Education Fund):

<http://www.cleartheair.org/>

### Sustainable Energy Coalition:

<http://www.sustainableenergy.org/>

## **Wind Energy Inventions:**

### Inventions and Innovation Program

US Department of Energy

Mail Stop EE-24

1000 Independence Ave., SW

Washington, DC 20585

Phone: (202) 586-2079

<http://www.oit.doe.gov/inventions>

US Department of Energy

Office of Scientific and Technical Information

PO Box 62

Oak Ridge, TN 37831

Phone: (423) 576-8401

<http://www.osti.gov/html/osti/products/publics.html>

## **For Teachers, Kids:**

Build a model wind turbine:

[http://www.re-energy.ca/t-i\\_windbuild-1.shtml](http://www.re-energy.ca/t-i_windbuild-1.shtml)

Features online instructions, list of materials needed, step-by-step assembly and testing instructions.

Build a model wind turbine:

PicoTurbine Renewable Energy Projects.

Provides step-by-step instructions.

Kits available.

<http://www.picoturbine.com>

GE Wind Energy: "Just for Teachers and Kids"

[http://www.gepower.com/dhtml/wind/en\\_us/newsroom/just4kids/index.jsp](http://www.gepower.com/dhtml/wind/en_us/newsroom/just4kids/index.jsp)

Listing of Web-based resources:

[http://www.nrel.gov/clean\\_energy/teach\\_wind.html](http://www.nrel.gov/clean_energy/teach_wind.html)

National Energy Education Development Project (NEED)

Web site: <http://www.NEED.org>

Spirit Lake Elementary School.

[http://www.spirit-](http://www.spirit-lake.k12.ia.us/dist/wind/index.htm)

[lake.k12.ia.us/dist/wind/index.htm](http://www.spirit-lake.k12.ia.us/dist/wind/index.htm) The Spirit Lake School in Spirit Lake, Iowa, researched the feasibility of installing a wind turbine, and has installed two. Provides information about the research and the turbines' performance.

Teacher's module on wind and renewable energy:

<http://www.earth.uni.edu/EECP/elem/mod3.html>

Teachers workshop:

<http://www.laurentiancenter.com/htmls/workshops/windenergy.html> Contact the center for information about upcoming workshops.

Wind with Miller:

<http://www.windpower.org/en/kids/index.htm>

Interactive online resource for both teachers and students, 5<sup>th</sup> grade and up. Provides a teacher's guide, course materials, and activities. Wind With Miller is a feature of the Danish Wind

Energy Association Web site. Available in English, Spanish, and other languages.

Zilkha Renewables:

<http://www.zilkha.com/forteacherskidsconsume.rs.asp> Includes a curriculum as well as information about wind power.

### **Landowner Issues:**

#### Windustry

2105 First Avenue South  
Minneapolis, MN 55404  
Phone: toll-free: (800) 946-3640  
(612) 870-3461  
Fax: (612) 870-4846  
E-mail: [info@windustry.org](mailto:info@windustry.org)  
Web site: <http://www.windustry.org>

#### Sustainable Energy for Economic Development (SEED):

Iowa SEED:

132 E. Washington St.  
Iowa City, IA 52240  
Contact: Michelle Kenyon  
Phone: (319) 354-8116  
Fax: (319) 354-0833  
E-mail: [Mkenyon@IowaCAN.org](mailto:Mkenyon@IowaCAN.org)  
Web site: <http://www.yawp.com/ican/program/renewables.shtml>

Minnesota SEED:

Minnesota Project  
1885 University Avenue W, Suite 315  
St. Paul, MN 55104  
Contact: Lola Schoenrich  
Phone: (651) 645-6159, ext. 4  
E-mail: [lschoenrich@mnproject.org](mailto:lschoenrich@mnproject.org)  
Web site: <http://www.me3.org/projects/seed/>

North Dakota SEED:

Web site:

<http://www.ndseed.org/default.htm>

Northwest SEED:

119 1<sup>st</sup> Ave South, Suite 400  
Seattle, WA 98104-3416  
Phone: (206) 328.2441  
Fax: (206) 770-6570  
E-mail: [info@nwseed.org](mailto:info@nwseed.org)  
Web site: <http://www.nwseed.org>

Texas SEED:

Web site:

<http://www.seedcoalition.org/index.htm>

### **Wind Energy Discussion Groups and Listserves**

Renewable Energy:

Send subscription request to [renewable-energy-subscribe@yahoogroups.com](mailto:renewable-energy-subscribe@yahoogroups.com)

To view discussion archives go to:

<http://groups.yahoo.com/group/renewable-energy>

Home Wind Energy Systems:

Send subscription request to [awea-wind-home-subscribe@yahoogroups.com](mailto:awea-wind-home-subscribe@yahoogroups.com)

To view discussion archives go to:

<http://groups.yahoo.com/group/awea-wind-home>

Wind-Diesel Hybrid Systems Technology

Listserve:

Send subscription request to [wind-diesel-subscribe@yahoogroups.com](mailto:wind-diesel-subscribe@yahoogroups.com)

To view discussion archives go to:

<http://groups.yahoo.com/groups/wind-diesel>