

Wind Education Resources on the World Wide Web

Curriculum

American Wind Energy Association (AWEA)

Through the National Energy Education Development Project (NEED)

<http://www.need.org/curriculum.php> and in cooperation with the American Wind Energy Association (AWEA), the downloadable units *Wind Energy* for Kindergarten -12th grade. The material is organized by grade levels to ensure that the information is appropriate for each age group. <http://www.awea.org/education/curriculum/>

AWEA also provides background information, fact sheets, and reports on wind energy.

<http://www.awea.org/faq/>

Carol Hurst's Children's Literature Site: Wind in Children's Books

Offers information on children's books about wind. Also links to other educational wind sites.

<http://www.carolhurst.com/subjects/wind.html>

The Kennedy Center ArtsEdge: Lessons on Wind

Provides artistic and science literacy lessons on wind.

<http://artsedge.kennedy-center.org/teach/les.cfm?keywords=wind&x=0&y=0>

Kid Wind Project

Provides resources, lesson plans, and workshops on wind energy.

<http://www.kidwind.org/lessons/teachers.html>

Student-friendly site: <http://www.kidwind.org/lessons/students.html>

New York Energy Research & Development Authority (NYSERDA)

*School Power...Naturally*SM offers a multitude of lessons on energy, particularly on photovoltaic energy. <http://www.powernaturally.org/programs/SchoolPowerNaturally/default.asp>

Northeast Sustainable Energy Association (NESEA)

The K-12 Education Department offers teacher training workshops and downloadable units on wind energy and related renewable energy topics. <http://www.nesea.org/k-12/>

Pandion Systems, Inc.

In partnership with KidWind, Pandion developed *WindWise Education*, lessons for 6-12th grade focusing on wind energy and wildlife. <http://www.pandionsystems.com/projects.htm>

The Penbina Institute

"Build Your Own Wind Turbine" (PDF). Step-by-step procedures on constructing a model wind turbine. <http://www.re-energy.ca/pdf/wind-turbine.pdf>



Curriculum Support – background information on wind energy

Energy Kids Page

Website supported by the Energy Information Administration of the U.S. Department of Energy. Student-friendly site devoted to explaining history and applications of wind energy.

<http://www.eia.doe.gov/kids/energyfacts/sources/renewable/wind.html>

National Renewable Energy Laboratory: Wind Energy Basics

Explains the basics of wind energy. http://www.nrel.gov/learning/re_wind.html

New York State Energy Research & Development Authority (NYSERDA)

Renewable Portfolio Standard – downloadable as a PDF.

Report providing information on renewable energy installations in the State, including wind.

<http://www.nyserda.org/rps/projectgallery.asp>

Educational Online Data Monitoring

Heliotronics

Regional energy education business that installs online data monitoring systems to compliment on-site solar arrays on school grounds and is currently working on site monitoring for wind energy. <http://www.heliotronics.com/> Also visit Heliotronics collaboration with NYSERDA to monitor 50 schools within New York State. http://www.sunviewer.net/portals/NYSERDA_SPN/

Other Helpful Resources for NYS Educators

Alliance for Clean Energy New York, Inc.

Discussion of New York's energy mix and expansion potential for renewable energy technologies, particularly wind.

<http://www.aceny.org/clean-technologies/wind-power.cfm/pageid/68235>

Energy Information Administration

Official energy statistics from the U.S. Government, New York State profile.

http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=NY

EnergyTeachers.org

A network of educators sharing ideas for teaching about energy production and use.

<http://energyteachers.org/>

New York Independent System Operator

“2009 Load and Capacity Data Gold Book.”

Complete inventory of generation plants in New York State, including fuel source, capacity (size), town, and county.

http://www.nyiso.com/public/webdocs/services/planning/planning_data_reference_documents/2009_LoadCapacityData_PUBLIC.pdf

New York State Energy Research and Development Authority (NYSERDA)

In January 2009, NYSEDA's Energy Analysis program published [*Patterns and Trends - New York State Energy Profiles: 1993-2007 \(523kb .pdf\)*](#), a comprehensive storehouse of energy statistics and data on energy consumption, supply sources, and price and expenditure information for New York State.

http://www.nyseda.org/Energy_Information/energy_facts.asp

New York State Public Service Commission

Find out more about New York State energy sources mix.

<http://www.askpsc.com/askpsc/page/?PageAction=renderPageById&PageId=a8022193f892947a1d26b67506005183#energymix>

New York State Small Wind Explorer

AWS Truewind's web-based prospecting and siting application for small wind users and installers, is an application commissioned by the New York State Energy Research and Development Authority (NYSEDA). This application offers public access to highly accurate, site-specific wind resource maps and reports.

<http://nyswe.awstruewind.com/>

Union of Concerned Scientists

Learn facts and figures about energy and human impacts and successes in the United States of America.

http://www.ucsusa.org/clean_energy/