

Solar Education Resources on the World Wide Web

Curriculum

American Solar Energy Society (ASES)

Provides “Solar Resources for Educators” and links to other sites on background information and lessons.

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

Build It Solar

Educational and fun solar energy projects for a variety of ages. Provides links to other sites.

<http://www.builditsolar.com/Projects/Educational/educational.htm>

Energy Smarts

A program of the New York Energy Research and Development Authority (NYSERDA), Energy Smarts provides online energy lessons, teacher training workshops, and a newsletter.

<http://www.getenergysmart.org/EnergyEducation/Default.aspx>

National Energy Education Development Project (NEED)

Schools Going Solar – this guide provides research activities for schools with installed photovoltaic systems.

<http://www.need.org/needpdf/SchoolsGoingSolar.pdf>

Northeast Sustainable Energy Association (NESEA)

Enter the K-12 Education Department and there is a wealth of resources for educators on topics of renewable energy, green schools, and Junior Solar Sprint.

Solar Sails New York curricular units and resources are also found here.

<http://www.nesea.org/k-12/>

School Power...NaturallySM

A program of the New York State Energy and Research Development Authority. Downloadable energy education lessons.

<http://www.powernaturally.org/programs/SchoolPowerNaturally/default.asp>

Solar Energy International (SEI)

Resource center for educators, including links to other websites.

<http://www.solarenergy.org/programs/resourcesforeducators.html>

U.S. Department of Energy

Energy Efficiency and Renewable Energy

K-12 education lesson plans and activities organized by grade

http://apps1.eere.energy.gov/education/lessonplans/topic.cfm/topic_id=9

U.S. Department of Energy

Solar Decathlon

Resource center for educators, including links to other websites.

http://www.solardecathlon.org/for_teachers.html

Educational Online Data Monitoring

Heliotronics

Regional energy education business that sets up online data monitoring systems to compliment on-site solar arrays on school grounds. <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/

Education Centers

The following is a sampling of possible destination sites for field trips, some offering onsite and outreach programming on renewable energy and more specifically solar energy.

Apple Pond Farm and Renewable Energy Education Center

Offers programs on renewable energy on a working farm powered by renewable energy, including solar.

Callicoon Center, New York 12724

845-482-4764

http://www.applepondfarm.com/renewable_energy.html

Sullivan Alliance for Sustainable Development at Apple Pond Farm

Provides resources and educational talks and workshops on sustainable building practices and renewable energy; coordinates green building and renewable energy projects.

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

Lime Hollow Center for Environment & Culture

Green building features including photovoltaics.

Cortland, New York

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

Solar One

Offers programs on green energy options to residents and schools within New York City's five borough area.

New York, New York

212-505-6050

<http://solar1.org/about/>

Financing Renewable Energy

Database of State Incentives for Renewables and Efficiency (DSIRE)

This is a database of state incentives for renewable energy (such as rebates for solar energy)
www.dsireusa.org/

Energy Efficiency and Renewable Energy

A Program of the U.S. Department of Energy designed to help individuals and institutions finance their renewable energy project.

<http://www1.eere.energy.gov/financing/>

New York State Energy Research and Development Authority

NYS financing programs.

<http://www.powernaturally.org/Funding/default.asp>

Pratt Center for Community Development

Lists financing programs with a focus on solar energy in NYC.

<http://prattcenter.net/energy-nyc-solar.php>

New York State Teacher/Educator Associations

New York State Outdoor Education Association (NYSOEA)

<http://www.nysoea.org/welcome.htm>

New York State Technology Education Association (NYSTEA)

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

Science Teachers Association of New York State (STANYS)

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

Other Helpful Resources for NYS Educators

Alliance for Clean Energy New York, Inc.

Discussion of New York's energy mix and expansion potential of 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

New York Independent System Operator

“2009 Load and Capacity Data Gold Book”. Complete inventory of generation plants in NYS, 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 Solar Energy Industries Association

Offers information and expertise in solar energy technologies.

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

New York Solar Energy Society (NYSES)

Offers information and expertise in solar energy technologies as well as resources and outreach for tours and educational programming.

917-974-4606

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

New York State Energy Research and Development Authority

In January 2009, the 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.nysesda.org/Energy_Information/energy_facts.asp

New York State Public Service Commission

Find out more about NYS energy sources mix

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

Northeast Sustainable Energy Association – New York Chapters

- GreenHome NYC
Brooklyn, NY
917-846-2374
<http://www.nesea.org/greenhomenyc/>
- Western New York Sustainable Energy Association (WNYSEA)
Buffalo, NY
716-881-1639
<http://www4.bfn.org/wnysea/index.html>