

Energy Education Resources: Kindergarten Through 12th Grade

July 2005

Energy Information Administration
National Energy Information Center
U.S. Department of Energy
Washington, DC 20585

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or
[http://tonto.eia.doe.gov/FTP/other/0546\(2005-2006\).pdf](http://tonto.eia.doe.gov/FTP/other/0546(2005-2006).pdf)

PREFACE

Energy Education Resources: Kindergarten Through 12th Grade is published by the National Energy Information Center (NEIC), a service of the Energy Information Administration (EIA), to provide students, educators, and other information users a list of generally available free or low-cost energy-related educational materials.

The entries are listed alphabetically by organization title. Each entry includes the address, telephone number, and description of the organization and the energy-related materials available. Most of the entries also include Internet (Web) and electronic mail (E-Mail) addresses. In the back of the book there is a subject index cross-referenced by number to the alphabetical entries.

Some of the organizations represented in this list take policy positions on certain energy issues and express them even in educational materials. Because EIA is the independent statistical and analytical agency within the U.S. Department of Energy (DOE), it does not advocate any policy position of DOE or any other organization. EIA has completed this list solely to aid educators and students in locating materials.

This year's edition was done by Curley Andrews. To include a new entry, contact EIA at the following address:

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AIR & WASTE MANAGEMENT ASSOCIATION (A&WMA)

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A&WMA is a not-for-profit, nonpartisan professional organization that enhances knowledge and expertise by providing a neutral forum for technology exchange, professional development, networking opportunities, public education, and outreach to more than 9,000 environmental professionals in 65 countries. A&WMA also promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society. For more information about A&WMA, please visit our website at www.awma.org.

A&WMA provides educational materials for teachers and students in kindergarten through grade 12. Materials are designed to improve the environmental literacy of students and educators and introduce them to actions that they can take to reduce waste, conserve energy, and develop pollution prevention plans. Materials include fact sheets and information books on such topics as air pollution, pollution prevention, recycling, hazardous waste, landfills, and others. A&WMA also produces *Environmental Resource Guides (ERGs)* on air quality and nonpoint source pollution prevention, which focuses on water quality and runoffs. ERGs are supplementary curricula with a hands-on, interdisciplinary approach to environmental education.

We encourage A&WMA members and other interested parties to sponsor local teacher-training workshops. The workshops provide teachers an opportunity to participate in ERG activities and create an ongoing dialogue between environmental professionals and the educational community. Contact A&WMA headquarters to find out about teacher-training opportunities in your area or to order public education materials. A&WMA has also been able to convert four ERGs to CD-ROM format. The resulting product, entitled the *Environmental Resource Guide (EERG)*, contains all materials and lessons for grades K-2 and 3-5 from both the *Air Quality* and *Nonpoint Source Pollution Prevention* series, as well as background information on these topics. The CD will be available beginning June 2005. 1

THE ALLIANCE TO SAVE ENERGY

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Washington, DC 20036
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Fax: (202) 331-9588
E-Mail: greenschools@ase.org
Web: www.ase.org
Energy Hog E-Mail: mellingson@ase.org
Energy Hog Web: www.energyhog.org

The Alliance to Save Energy is a coalition of prominent business, government, environmental, and consumer leaders who promote the efficient and clean use of energy worldwide to benefit consumers, the environment, economy, and national security.

Green Schools Program

The Alliance's Green Schools Program is a comprehensive energy savings program for K-12 schools that incorporates energy education and energy-saving activities in and around the school building. Students begin to understand energy and its link to the environment and economics, and the schools benefit by cutting energy costs. Free, downloadable lessons plans, information about the Green Schools Program, contact information and more are available online at www.ase.org/greenschools.

Energy Hog Campaign

The Alliance to Save Energy's Energy Hog Campaign is a national public service advertising campaign created by the Ad Council in partnership with the U.S. Department of Energy, The Home Depot, North American Insulation Manufacturers Association, and 20 state energy offices. The campaign targets children ages 8 to 13 and their parents and features a dastardly character, the Energy Hog, who bring to life the invisible concept of energy waste. The campaign makes saving energy fun for children and empowers them to encourage their parents to make wise energy choices. Kids can become official Energy Hog Busters by winning five energy games on the campaign website, www.energyhog.org. The Energy Hog Challenge is a set of classroom educational activities on the benefits of saving energy. The teacher and student guides include a primer explaining where energy comes from, why energy is important, and how we use it. They also discuss how to search out and destroy Energy Hogs – in the ways energy is wasted – in the home and include fun, interactive activities like Energy Hog Bingo and the Math Challenge. The guidebooks can be downloaded free at www.energyhog.org. **2**

THE ALUMINUM ASSOCIATION, INC.

1525 Wilson Blvd., Suite 600
Arlington, VA 22209
Phone: (703) 358-2960
Fax: (703) 358-2961
Web: www.aluminum.org

A trade association representing the U.S. aluminum industry. Serves as principal source of information on aluminum and the industry.

Provides information on recycling. A complete listing of our publications, along with ordering information, is available on our website. **3**

THE AMERICAN CHEMICAL SOCIETY

1155 16th Street, N.W.
Washington, DC 20036
202-872-4075
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E-Mail: education@acs.org
Web: www.chemistry.org

The world's largest scientific society with a membership of over 163,000 chemists and chemical engineers.

Publishes educational materials for use in grades 4 through 12: *The Best of Wonder Science, Volumes I and II*, offers hundreds of hands-on activities for elementary school students; *ChemMatters*, an award-winning magazine for high school students, relates chemistry to everyday life (published quarterly, back issues are available); *ChemCom*, a chemistry textbook program for high school students, connects basic chemistry concepts and content to the real world; *Introduction to Green Chemistry*, a laboratory manual for advanced high school chemistry students, introduces students to environmentally benign industrial processes that begin with renewable resources; and *Science in a Technical World (STW)*, a series of high school science modules, places students in a variety of problem-solving roles as chemical technicians. All of these products include such energy-related topics as electricity, recycling, nuclear energy, and the environment. A free *Teaching Resources Catalog* is available upon request. **4**

AMERICAN CHEMISTRY COUNCIL (ACC)

1300 Wilson Boulevard
Arlington, VA 22209
(703) 741-5000
Fax: (703) 741-6000
Web: www.americanchemistry.com

The American Chemistry Council (ACC) represents the leading companies engaged in the business of chemistry.

ACC members apply the science of chemistry to make innovative products and services that make people's lives better, healthier and safer. ACC is committed to improved environmental, health and safety performance through *Responsible Care*, common sense advocacy designed to address major public policy issues, and health and environmental research and product testing. The business of chemistry is a \$501 billion enterprise and a key element of the nation's economy. It is the nation's largest exporter, accounting for ten cents out of every dollar in U.S. exports. Chemistry companies invest more in research and development than any other business sector. Safety and security have always been primary concerns of ACC members, and they have intensified their efforts, working closely with government agencies to improve security and to defend against any threat to the nation's critical infrastructure. **5**

AMERICAN COAL FOUNDATION

101 Constitution Avenue, N.W., Suite 500-E
Washington, DC 20001-2133
(202) 463-9785
Fax: (202) 463-9786
E-Mail: info@teachcoal.org
Web: www.teachcoal.org

A nonprofit educational organization supported by a coalition of coal producers and mining equipment manufacturers and suppliers.

Teachers can receive FREE educational materials (teacher packet and coal samples). These materials include: general information brochures on coal, electricity, and land reclamation; coloring and activity book; activity book with teacher guide; activities for elementary and secondary students; coal samples; a guide to coal CDs and videos. Additional copies and other material (video, CD-ROM) are available for a nominal charge. When ordering, include name of organization/school, address, phone/fax numbers, and grade level. Contact ACF for information.

To place an order, contact West Glen Communications, 1430 Broadway, New York, NY 10018, (800) 325-8677, (212) 921-9536 (fax). 6

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY (ACEEE)

1001 Connecticut Avenue, N.W., Suite 801
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(202) 429-0063 (publications)
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E-Mail: info@aceee.org
Web: www.aceee.org

An independent, nonprofit organization dedicated to advancing energy efficiency as a means of promoting both environmental protection and economic prosperity.

Publishes a variety of books, reports, consumer guides, and fact sheets. Material covers energy use and efficiency, as well as related environmental issues in buildings, industry, and transportation. ACEEE's books and reports are written primarily for adults and concern energy-efficient technologies and policies for end-use. In addition, the *Consumer Guide to Home Energy Savings* is a popular illustrated book for general consumers and is a suitable teaching resource for grades 8 through 12. *ACEEE's Green Book: The Environmental Guide to Cars and Trucks*, updated annually, is a one-of-a-kind buyers' guide that ranks vehicles according to environmental friendliness. These materials are available for a fee and are described in a free catalog. 7

AMERICAN ELECTRIC POWER

Community Relations
1 Riverside Plaza, 19th Floor
Columbus, OH 43215
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Fax: (614) 716-1682
E-Mail: educate@aep.com
Web: www.aep.com

American Electric Power owns more than 36,000 megawatts of generating capacity in the United States and is the nation's largest electricity generator. AEP is also one of the largest electric utilities in the United States, with more than 5 million customers linked to AEP's 11-state electricity transmission and distribution grid. The company is based in Columbus, Ohio.

Provides free educational services to pre-K through grade 12 educators in areas served by American Electric Power's operating units: AEP Ohio, AEP Texas, Appalachian Power, Indiana Michigan Power, Kentucky Power, Public Service Company of Oklahoma and Southwestern Electric Power Company. Internet resources at the website include "The Electric Universe(r)" for students, teachers and parents; and "Learning from Light" and "Learning from Wind," featuring graphs of actual solar and wind power generation at participating schools and sites. Other services include live theatre presentations on electrical safety for elementary schools; classroom resources; information centers, tours and nature trails; and educator workshops. 8

AMERICAN FOREST FOUNDATION

Project Learning Tree
1111 19th Street, N.W., Suite 780
Washington, DC 20036
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E-Mail: info@plt.org
Web: www.plt.org

A nonprofit educational and conservation organization developing, funding, and administering programs that encourage the long-term stewardship of our natural resources. The Foundation's core programs are Project Learning Tree (PLT) and American Tree Farm System.

Project Learning Tree is sponsored nationally by the American Forest Foundation. The program is sponsored at the State level by a variety of State natural resource and education agencies. Crafted to meet State and national standards, PLT provides all the tools educators need to bring the environment into their classrooms – and their students into the environment. PLT's supplementary curriculum guide, *Project Learning Tree: Environmental Education Pre K-8 Activity Guide* (96 multidisciplinary activities), focuses on the total environment: land, air, and water. It is local, national, and global in scope. The curriculum underscores PLT's primary goal— to increase students' understanding of our complex environment. PLT is designed to teach students how to think, not what to think, about environmental issues. The curriculum remains easily adaptable to many settings from the classroom to youth organizations, museums, nature centers, and Scout troops.

Two of the storylines in the *Project Learning Tree: Environment Education Pre K-8 Activity Guide* focus on energy. The first

storyline highlights the concept that energy exists in different forms and comes from renewable and non-renewable sources. The second storyline emphasizes that societies use energy in many different ways and that human use of energy has short- and long-term social, economical, environmental, and health impacts. These energy storylines are comprised of 14 activities. PLT provides secondary education teachers with a series of topic-specific modules that challenge students to explore every facet of an issue—illustrating the complexity of real-life environmental decisions. In particular, PLT’s secondary education module, *Exploring Environmental Issues: Municipal Solid Waste*, helps students explore causes and solutions of this universal urban environmental issue.

PLT offers the Energy & Society kit — energy education materials at the Pre K-8 level. Students learn about their relationship with energy and investigate the environmental issues related to energy’s role in society. Energy & Society helps students develop critical thinking skills to make decisions about their personal energy use. In addition to hands-on activities, Energy & Society integrates music and dance to enhance the study of energy issues. The kit includes an activity guide with background information for educators, music CD, dance video, and poster set. The kit is available for sale as well as through workshops. All PLT curricular materials are available through local workshops. Contact PLT for the name of the program coordinator in your state or visit the PLT website for more information on all of PLT’s programs. 9

AMERICAN GEOLOGICAL INSTITUTE (AGI)

4220 King Street
Alexandria, VA 22302-1502
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The American Geological Institute is a nonprofit federation of 42 geoscientific and professional associations that represents more than 100,000 geologists, geophysicists, and other earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society’s use of resources and interaction with the environment.

AGI disseminates information on earth science education through several mechanisms, including publications such as high-school curricula (*EarthComm*TM) and middle-school curricula (*Investigating Earth Systems*TM); and workshops and presentations for teachers and educators. Visit www.agiweb.org/education for more information. AGI also publishes *Geotimes*, a monthly news magazine (www.geotimes.org), and provides geoscience career information (www.agiweb.org/careers).

During the second full week of October, AGI sponsors *Earth Science Week* to raise awareness about how the earth sciences affect our lives and society (www.earthscienceworld.org/week).

The Earth Science World ImageBank (www.earthscienceworld.org/imagebank/) provides a library of geoscience images for free educational use. Earth Science Week Kits and other AGI publications are available on a secure website at www.agiweb.org/pubs. **10**

AMERICAN NUCLEAR SOCIETY

Outreach Department
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Web: www.ans.org or www.aboutnuclear.org

A nonprofit scientific and educational organization of professionals in the field of nuclear science and technology.

Offers free publications (single copies) on nuclear energy and uses of the atom. Available materials include *Nuclear Energy Facts Q&A*, *Nuclear Technology Creates Careers*, and a *Personal Radiation Dose Chart*. A free publications list is available upon request by mail or electronic mail at outreach@ans.org. Teachers may sign up for the free newsletter, *ReActions*, which contains articles on uses of the atom in everyday life and in each issue an “activity card” with a project for classroom use. Short workshops and sessions are held throughout the year at exhibits, conferences, in-service training, and by invitation. **11**

AMERICAN PETROLEUM INSTITUTE (API)

1220 L Street, N.W.

Washington, DC 20005

(202)682-8081

Fax: (202) 962-4719

Web: www.api.org or www.classroom-energy.org

The American Petroleum Institute (API) is the primary trade association for the oil and natural gas industry in the United States. Representing one of the most technologically advanced industries in the world, our membership includes more than 400 companies engaged in the exploration, production, refining, transportation and marketing of petroleum, natural gas and related products.

API supplies educational materials on the petroleum industry to teachers at no charge. API has created an online resource for educators and students that explores the topic of energy at www.classroom-energy.org including classroom activities, interactive tours, and links to a variety of energy education resources. In partnership with Project Learning Tree (PLT), API developed the *Energy and Society* K-8 education program, including multidisciplinary education materials to help students understand the critical role that energy plays in their daily lives. Program components, all correlated to national education standards, include a music CD and video, posters, study guide and website. The *Energy & Me* music CD features 15 songs about energy and is a 2002 Parents' Choice Recommended Award winner. For more information about the program, visit PLT's website at www.plt.org/curriculum/energy.cfm.

Additionally, API offers a wide variety of energy education material for 9-12 graders on API's website, www.api.org, including interactive modules and videos such as *Adventures in Energy*, *Technology Transforming an Industry* and *Environmental Commitment*, which demonstrate the industry's cutting-edge technology and continued environmental progress in the exploration, production, refining, transportation and marketing of petroleum products. For a complete list of API's education materials for all grade levels, please download a brochure at www.classroom-energy.org/teachers/ed_materials/API_Education_Materials.pdf. **12**

AMERICAN PLASTICS COUNCIL (APC)

1300 Wilson Boulevard
Arlington, VA 22209
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Fax: (703) 741-6000
Web: www.plastics.org

*APC is a national trade association representing the nation's largest resin producers, including monomer and polymer production and distribution. Founded in 1988, APC advocates unlimited opportunities for plastics and promotes their economic, environmental and societal benefits. *Plastics: A World of Unlimited Opportunities. Plastics Make It Possible*[®].*

APC has an interactive, online version of their *Hands on Plastics: A Scientific Investigation Kit* curriculum for grades 5-8, as well as the addition of a K-4 Curriculum. The curricula, found at www.teachingplastics.org, was developed in its original format in conjunction with the National Middle Level Science Teachers Association and features background information on plastics and polymers, multi-media examples of classroom activities, and ties to the National Science Education Standards. The information is also available on a CD-ROM. The free kit of supplemental materials for grades 5-8 curriculum can be ordered online, along with other APC publications. **13**

AMERICAN PUBLIC POWER ASSOCIATION (APPA)

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Web: www.appanet.org

The American Public Power Association is the service organization for the Nation's more than 2,000 not-for-profit, community- and state-owned electric utilities.

Provides various general information pamphlets, including: *The Benefits of Public Power*, *Careers in Public Power*, and *All About Electricity and 10 Ways Kids Can Save It*. Also available are two videos, *Simple Things You Can Do To Save Energy* and *Simple Things You Can Do To Save Energy In Your School*. The videos were developed through APPA's Demonstration of Energy-Efficient Developments (DEED) program. Publications and videos are offered for a nominal fee. A complete list of materials available is on the website at www.appanet.org. DEED also offers scholarships to college students and this information is available on the website. **14**

AMERICAN SOLAR ENERGY SOCIETY (ASES)

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A national membership association dedicated to advancing the use of solar energy.

The American Solar Energy Society (ASES) is a nonprofit membership organization founded in 1954 to encourage the use of solar and renewable energy technologies to be a source of sound, broad technical knowledge and to provide a forum for addressing critical issues relating to these energy technologies. ASES publishes the magazine *SOLAR TODAY*; sponsors the annual National Solar Energy Conference and the Annual ASES National Solar Tour; and supports regional chapters throughout the country. ASES is the United States section of the International Solar Energy Society. ASES offers sample copies of its magazine, *SOLAR TODAY*. It has one science project book, *Elementary and Secondary Science Projects in Renewable Energy and Energy Efficiency*, available for a fee. See www.ases.org or www.solartoday.org for more details and to download additional information. **15**

AMERICAN WATER WORKS ASSOCIATION (AWWA)

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E-mail: knitschke@awwa.org
Web: www.awwa.org

AWWA is the authoritative resource for knowledge, information, and advocacy to improve the quality and supply of drinking water in North America and beyond. AWWA is the largest organization of water professionals in the world. AWWA advances public health, safety and welfare by uniting the full spectrum of the entire water community. Through our collective strength we become better stewards of water for the greatest good of the people and the environment.

Offers educational materials for sale designed to teach young people about water treatment, distribution, and conservation. Materials include activity books, teacher's guides, comic style books, compact disks and videos. Call for a free catalog and visit the website for additional materials. **16**

AMERICAN WIND ENERGY ASSOCIATION (AWEA)

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202-383-2505 Fax
Web: www.awea.org
Web: www.aweastore.com

The American Wind Energy Association (AWEA) is the national association of the U.S. wind energy industry. AWEA's membership is composed of companies and individuals dedicated to advancing the use of clean, renewable wind energy. The mission of AWEA is to promote wind power growth through communication, education, and advocacy.

AWEA offers an Educator's Packet on wind energy, including: a *Wind Energy Teacher's Guide*; the current *Wind Energy Status Report*, which outlines the domestic and international growth of the wind industry; the *Basic Facts About Wind Energy*, which discusses the scale of wind projects, as well as economic development; and a *Wind Energy Information Guide*, a compilation of further sources to contact for information about wind energy. Packets are free upon request. Other educational materials, such as videos and posters, are available for a fee through the AWEA online publications listing. Educators are encouraged to visit the AWEA website at www.awea.org. **17**

ARIZONA DEPARTMENT OF COMMERCE ENERGY OFFICE

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Phoenix, AZ 85012
(602) 280-1402
Fax: (602) 280-1445
E-Mail: jima@azcommerce.com
Web: www.commerce.com or <http://azsolarcenter.com>

A DOE-funded program that emphasizes an energy efficiency curriculum for students in kindergarten through grade 12.

Provides materials for primary and secondary schools through downloadable PDFs on its website. Information includes *Bright Ideas* (single-topic publication covering energy and the environment, recycling, solar cooking, and photovoltaics). **18**

ASEPTIC PACKAGING COUNCIL (APC)

2120 L Street, N.W., Suite 600
Washington, DC 20037
Web: www.aseptic.org

A trade association representing the U.S. manufacturers of drink boxes. APC's primary mission is to inform the American public about the product benefits and environmental attributes of aseptic packaging.

For more information visit the APC website at www.aseptic.org. **19**

BALTIMORE GAS AND ELECTRIC COMPANY (BGE)

Educational Services
7225 Windsor Boulevard
Baltimore, MD 21244
(410) 265-4098
Fax: (410) 265-4299
Web: www.bge.com

Baltimore Gas and Electric Company is an investor-owned utility serving Baltimore City and all, or part of, nine Central Maryland counties.

Provides educational services free of charge to schools **in BGE's service area**. Services include classroom programs, career programs, resources, videos, and classroom literature for students in kindergarten through grade 12. Plant tours can be arranged through Constellation Energy Group by calling (410) 783-3272. A **free Educational Resources** catalog is available upon request. Teachers may order materials through BGE's website above. **20**

BP's A+ FOR ENERGY PROGRAM

BP - California Community Relations
6 Centerpointe Drive, 797
La Palma, CA 90623
E-mail: Irene.Brown@bp.com
Web: www.aplusforenergy.com

BP is a global producer, manufacturer, and marketer of oil, gas, chemicals, and renewable energy sources. Californians know BP best as ARCO and the ARCO ampm convenience store brand. Everyday BP serves approximately 13 million customers in more than 100 countries with energy solutions. Everyday more than 100,000 BP employees combine their energy and innovation to build the BP brand.

The ***A+ for Energy*** Program was developed by BP to recognize California teachers for innovation and excellence in teaching energy and/or energy conservation in the classroom. Any K-12 teacher currently teaching in a California public or private school is encouraged to participate.

BP awards up to \$2 million in grants to K-12 California teachers for innovative classroom, after-school, extra-curricular, or summer activities focused on energy and/or energy conservation. Grants of \$5,000 or \$10,000 are awarded directly to teachers, based on the budget submitted with the application. In addition, grant winners receive energy education curriculum units designed and developed by the National Energy Education Development (NEED) Project. Teachers receive over \$1,500 of resources – including hands-on classroom energy transformation kits, tools to teach energy in any discipline, and sponsorship to attend the NEED Energy Conferences for Educators scheduled in July each year.

For more information about the grant program, visit www.aplusforenergy.com. For information about the classroom materials, visit www.need.org. **21**

BRONX ZOO/WILDLIFE CONSERVATION PARK

Education Department
2300 Southern Boulevard
Bronx, NY 10460
1 (800) 937-5131
Fax: (718) 220-1057
E-Mail: arobinson@wcs.org
Web: www.wcs.org/education

The purpose of the Wildlife Conservation Society (WCS), since its founding in 1895 as the New York Zoological Society, has been to save wildlife and inspire people to care about our natural heritage. The Society continues to pioneer environmental education programs throughout the United States and abroad. It has the world's leading international conservation program devoted to saving endangered species and ecosystems.

WCS offers *Voyage From the Sun*, a 20-lesson classroom science module for grades 4 through 9. Developed with funding from the U.S. Department of Energy, *Voyage* is designed to introduce students to the major way in which energy is important to wildlife, focusing on the rainforest and tundra habitats. It encourages students to explore the story of earth's energy — its solar origins, how it is incorporated into living systems through photosynthesis, and how it flows from plants to animals.

During Voyage training workshops, teachers learn strategies for making the study of energy fun and exciting, as well as receiving first-hand training in how to guide their students as the Energy Pyramid becomes a classroom exhibit. Through activities, such as Photosynthesis Scramble and Tundra Math, teachers build the confidence to lead students on a voyage of discovery as they explore how energy is central to biology and how it links the natural and physical sciences. For more information, call the Director of National Programs at the number above. **22**

BULLFROG FILMS

P.O. Box 149
Oley, PA 19547
1 (800) 543-3764
Fax: (610) 370-1978
E-Mail: video@bullfrogfilms.com
Web: www.bullfrogfilms.com

An educational film distributor that offers the largest collection of energy videos and DVDs in the country.

Provides educational videos and DVDs on energy and energy-related issues. Titles include: *Biogas from the Sea; Building the Brookhaven House; Design with the Sun; The Four Corners: A National Sacrifice Area?; How to Keep the Heat in Your House; Kilowatts from Cowpies: The Methane Option; Water Power; In Our Own Backyards: Uranium in the U.S.; Uranium; Small Is Beautiful: Impressions of Fritz Schumacher; Harness the Wind; Downwind/Downstream; Poison in the Rockies; Lovins on the Soft Path; Opening Your House to Solar Energy; Journey of the Blob; Wake Up Freddy; Going Green: How to Reduce Your Garbage; Recycling is Fun!; Rising Waters: Global Warming and the Fate of the Pacific Islands; Silent Sentinels; Global Warming: Turning Up the Heat; Turning Down the Heat: The New Energy Revolution; Living Under the Cloud: Chernobyl Today; Turning the Toxic Tide; Race for the Future; An Energy-Efficient Doghouse; Solar Energy Doghouse; City Lights; Rethink-Pollution Prevention Pays; Recycling With Worms; Planet Neighborhood; It's Eco-Logic; Water and the Human Spirit; Here's My Question: Where Does My Garbage Go?; Motor; Nuclear Dynamite; Save Our Land, Save Our Towns; The Next Industrial Revolution; Razing Appalachia; Rough Science Series: Sun and Sea; Biomimicry; Good Riddance! Air Pollution; Oil on Ice. Programs are available for purchase or rental. Special packages, with discounted prices, can be created to serve most schools' needs. A free catalog is available upon request. **23***

CALIFORNIA ENERGY COMMISSION

1516 9th Street, MS-29
Sacramento, CA 95814
(916) 654-4989
Fax: (916) 653-5590
E-Mail: mediaoffice@energy.state.ca.us
Web: www.energyquest.ca.gov

The California Energy Commission is the State's principal energy planning organization, promoting a balanced and competitive energy system through its diverse programs.

Energy Quest, an online resource for students, teachers and parents, is dedicated solely to energy education and features information on renewable energy, conservation, safety, energy-related math and science experiments; word games; and links to other resources. Teachers and students will enjoy learning about electricity generation from *You've Got the Power* video, available on Energy Quest or on VHS or CD format. A perfect partner with the Teacher's Guidebook *Energy for Keeps - Electricity from Renewable Energy* is available online. The Energy Commission also provides energy and environmental education material on-line for teachers - kindergarten through grade 12 - including *Compendium for Energy Resources (curriculum evaluation)*; *Universal House*; *Energy Shelter & the California Indian*; *Conserve and Renew*. The Energy Commission's Consumer Energy Center, www.consumerenergycenter.org, provides information for older students on renewable technologies, lighting, passive design, transportation, and building materials.

Renewable Energy Alliance

Sacramento, CA 95814-5512
Phone: 916-654-4180
E-Mail: Mkrapcev@energy.state.ca.us
Web: www.consumerenergycenter.com/renewable/index.html

The California Energy Commission, as part of a statewide renewable energy education program, has formed the Renewable Energy Alliance, a voluntary partnership of organizations connected to California's renewable energy market. Alliance members combine their efforts to increase consumer awareness of renewable energy sources. As of February 2005, there are 254 individual members from 183 member organizations representing federal, state, regional, community, public, private and/or grassroots renewable energy organizations who have joined the Alliance. 24

CALIFORNIA FOUNDATION FOR AGRICULTURE IN THE CLASSROOM

2300 River Plaza Drive
Sacramento, CA 95833
(916) 561-5625
Fax: (916) 561-5697
E-Mail: cfaitc@cfbf.com
Web: www.cfaitc.org

A nonprofit educational foundation that provides educational resources and training for teachers to use agriculture as an integration theme throughout kindergarten through grade 12 curricula.

Teachers may view and download many resources from the California Foundation for Agriculture in the Classroom's website (www.cfaitc.org) including lesson plans, comprehensive classroom units, videos, a resource guide, and the *Cream of the Crop* newsletter. Most programs are specific to California but a limited number are adaptable to other states. Lesson plans can be used as vehicles for teaching Content Standards for California Public Schools. The Foundation encourages classroom integration of agriculture to increase the understanding of its vital role in our lives. This is encouraged through hands-on activities that reinforce concepts in science/environment, mathematics, English/language arts, history/social science, health/nutrition, physical education, and visual and performing arts. 25

CALIFORNIA REGIONAL ENVIRONMENTAL EDUCATION COMMUNITY PROJECT (CREEC)

Environmental Education Program
California Department of Education
1430 N Street, 4309
Sacramento, CA 95814
Phone: (916) 323-6189
Fax: (916) 323-2833
E-Mail: PLafonte@cde.ca.gov
Web: www.creec.org/

The CREEC Network is your "one stop shop" for environmental education resources in California, bringing together local, state, and federal agencies in support of the development of environmentally literate students. 26

CAPE LIGHT COMPACT

PO Box 427 Superior Courthouse
Barnstable, MA 02630
(508) 375-6703
Fax: (508) 362-4136
E-mail: dfitton@capelightcompact.org
Web: www.capelightcompact.org

The Cape Light Compact is a regional services organization made up of all 21 towns of Cape Cod and Martha's Vineyard. The purpose of the Compact is to represent and protect consumer interests in a restructured utility industry. As authorized by each town, the Compact operates the regional energy efficiency program and works with the combined buying power of the region's 197,000 electric consumers to negotiate for lower cost electricity, green and renewable energy and energy efficiency benefits. These benefits include home energy assessments, rebates on energy efficient lighting and appliances, subsidies for energy efficient new construction and energy education.

In partnership with the National Energy Education Development (NEED) Project and the Barnstable County Cooperative Extension, the Cape Light Compact staff strives to promote an energy-conscious and educated society by creating effective networks of students, educators, and business, government, and community leaders to design and deliver objective, multi-faceted energy education programs. Ongoing teacher workshops are held throughout the year as well as technical support and free use of NEED educational kits. All materials and subject matter are aligned with the Massachusetts state frameworks for grades 3 – 5. For more information and updates for upcoming workshops, please visit www.capelightcompact.org. 27

THE CENTER FOR ENERGY AND ECONOMIC DEVELOPMENT (CEED)

333 John Carlyle Street, Suite 530
Alexandria, VA 22314
(703) 684-6292
Fax: (703) 684-6297
E-Mail: info@ceednet.org
Web: www.ceednet.org

CEED is a nonprofit corporation dedicated to preserving the coal option for America's future energy needs through the use of research, education, and advocacy programs.

CEED works primarily with regional, state, and local policymakers to provide accurate information regarding electricity from coal's role in providing reliable, affordable, and environmentally sound electricity to millions of American families and businesses. CEED materials and information are online at www.ceednet.org. **28**

CENTERPOINT ENERGY

Community Relations

1111 Louisiana

P.O. Box 1700

Houston, TX 77251

(713) 207-2222 or (713) 207-7579

Fax: (713) 207-9892

E-Mail: lucretia.ahrens@CenterPointEnergy.com

Web: www.centerpointenergy.com

CenterPoint Energy is an investor-owned electric and natural gas delivery company headquartered in Houston and serving seven States from Texas to Minnesota.

In the **Houston, Texas, area**, CenterPoint Energy provides free educational services to K-12. Services include classroom presentations, videotapes, publications, and activity booklets for students. Resources and newsletters for educators and teacher in-service training, as well as teacher workshops, are also available. In addition, curriculum supplements are available on topics such as electrical and natural gas safety. *Electric Universe* and *Energy Underground* resources for teachers and students are on the website. **29**

CHANNING BETE COMPANY

One Community Place

South Deerfield, MA 01373-0200

1 (800) 628-7733

Fax: 1 (800) 499-6464

E-Mail: custsvcs@channing-bete.com

Web: www.channing-bete.com

A publishing firm specializing in scriptographic products. Most utilities provide them to schools in their service territories free of charge; however, the booklets are available for a fee.

Offers *My Book* series, designed for students in kindergarten and grade 1; *Coloring and Activities Books* for students in grades 1 through 3; and *Information and Activities Books* for students in grades 4 through 6. Water, electric and energy conservation stickers

and growth charts are also available. Contact your local utility for availability or call the above number. Provides educational services fulfillment for utilities. Please call for pricing, a catalog, and a free sample. **30**

CHARLES EDISON FUND

One Riverfront Plaza, 3rd Floor
Newark, NJ 07102
(973) 648-0500
Fax: (973) 648-0400
E-Mail: info@charlesedisonfund.org
Web: www.charlesedisonfund.org

A charitable foundation providing science teachers with simple, basic, proven fun experimental booklets containing 82 experiments.

Provides *The Best of Edison Science Teaching Kits*, which are available to teachers. Each kit contains nine how-to booklets based on experiments of Thomas Edison and other scientists. These are suitable for grades 4 through 8. Titles include: *Energy for the Future*; *Useful Science Projects*; *Environmental Experiments*; *Selected Experiments and Projects*; *Nuclear Experiments*; *Energy Conservation*; *Alternative Energy Sources*; *Static Electricity — It's a Snap*; and *Lewis Howard Latimer Experiments*. There is a small fee for handling charges. Write for coupon to receive this kit. These experiments are also located at the above website, which can be downloaded free of charge. **31**

THE CHLORINE CHEMISTRY COUNCIL^(R) (CCC)

1300 Wilson Boulevard
Arlington, VA 22209
(703) 741-5821
Fax: (703) 741-6821
E-Mail: info@science-education.org
Web: www.science-education.org

The Chlorine Chemistry Council[®], a business council of the American Chemistry Council, provides information to the public regarding chlorine and promotes the practice and understanding of the responsible use of chlorine chemistry.

The Science Center is a user-friendly site with a variety of fun, educational offerings focused on chlorine science, including:

- *Water Germs Busted by Chlorine* and *Swimming Pool Germs Busted by Chlorine*—Downloadable coloring/activity books featuring the adventures of The Chlorin8tor

and Little Hector, The Disinfecter superheroes who teach students the value of chlorine disinfection while imparting an appreciation of simple microbiology.

- *The Chlorine Compound of the Month*—Informative, illustrated articles on a different chlorine compound each month, including interesting facts and basic chemical principles.
- *The Global Bug Conspiracy*—A creative learning tool that “vilifies” some of the most common waterborne pathogens as “mischievous microbes” that are defeated by chlorine disinfection. **32**

CITY PUBLIC SERVICE (CPS)

Energy Education Section
P.O. Box 1771
San Antonio, TX 78296-1771
(210) 353-2300
Fax: (210) 353-4352
Web: www.citypublicservice.com

A municipally owned natural gas and electric utility serving substantially all of Bexar County, Texas, and small portions of seven adjacent counties.

Provides safety and energy educational services free of charge to schools **in the CPS service area**. Services include classroom presentations, a videotape library, curriculum supplements, Energy Education Center, and a Power Point slide presentation. A free *School Safety & Energy Education Program Catalog* is available upon request. **33**

CITY UTILITIES OF SPRINGFIELD, MO

301 E. Central
P.O. Box 551
Springfield, MO 65801-0551
(417) 831-8348
Fax: (417) 831-8324
E-Mail: Cara.Shaefer@cityutilities.net
Web: www.cityutilities.net

City Utilities of Springfield (CU) is a progressive, community-owned utility serving the Springfield metropolitan area in southwest Missouri with electricity, natural gas, water, telecommunications and transit services.

Offers power station and renewable energy project tours, classroom presentations, an extensive speakers' bureau, and a variety of energy management resources. City Utilities' partnership with a local high school has become a model for other business and education partnerships. The partnership between CU volunteers and Central High School encourages young people to stay in school and facilitates the school-to-work transition for many students. **34**

THE COLORADO ENERGY SCIENCE CENTER (CESC)

1626 Cole Boulevard, Suite 375

Lakewood, CO 80401

(303) 216-2026 x 101 School Programs Office

Fax: (303) 237-0992

E-Mail: pkeegan@energyscience.org

Web: www.energyscience.org

A nonprofit organization specializing in energy education. Formed by the three managing partners of the National Renewable Energy Laboratory in 1999, CESC educates energy users to make smart investments in clean, cost-effective, sustainable energy technology.

The Colorado Energy Science Center has developed the *Energy Science in the Home Activity Guide*, a set of hands-on modules that improve student proficiency in math and science while giving students the tools to identify energy efficiency opportunities in their own homes. CESC also organizes an annual contest called the Home Energy Investigation in which student teams analyze energy bills and rank homes based on their potential for energy savings.

Private sponsors donate cash and energy efficiency products and services as contest awards. The contest encourages students to articulate what they've learned and to become effective champions of smart energy. **35**

THE CONSUMER AEROSOL PRODUCTS COUNCIL

99 Canal Center Plaza, Suite 310
Alexandria, VA 22314
(703) 683-1044
Fax: (703) 683-4622
E-Mail: rmorris@smithharroff.com
Web: www.nocfcs.org

Supported by companies that manufacture and market aerosol products, the Consumer Aerosol Products Council was founded in 1991 to provide information on aerosols and environmental issues for consumers, media, and educators at all levels.

Offers *Another Awesome Aerosol Adventure*, a **free** educational unit for students in grades 4 through 8. Includes a 10-minute video produced by the creative team from the popular children's television program *Beakman's World*. Designed with humor in mind, the video, along with accompanying teacher and student guides, a colorful classroom poster and take-apart aerosol can, makes the complex issues of aerosol technology, ozone depletion, and environmental awareness memorable and fun for a middle school-age audience. *Another Awesome Aerosol Adventure* is available through Video Placement Worldwide at (703) 836-9797. The organization also offers the *Science Class Challenge*, an opportunity to win \$500 to \$5,000 for your school and a pizza party for your class by teaching an activity found on our website and entering our contest. The *Science Class Challenge* is available for grades 4-9 and encourages students and teachers to learn about the earth's protective upper ozone layer, CFCs, and the environment. **36**

CREATIVE TEACHING PRESS, INC.

P.O. Box 2723
Huntington Beach, CA 92647-0723
(800) 287-8879
Fax: (800) 229-9929
E-Mail: customerservice@creativeteaching.com
Web: www.creativeteaching.com

A publisher of educational activity books.

Offers award-winning educational activity books for youth ages 3 to 14. Energy-related titles include: *Earth Book For Kids*; *Gobble Up Science*; and *Science Learn To Read Series*.

These books are available online at www.creativeteaching.com and from school supply stores and bookstores. Free catalogs are available upon request. **37**

CULVER COMPANY

104 Bridge Road
Salisbury, MA 01952-9904
1 (800) 4-CULVER
Fax: (978) 463-1715
E-Mail: customerservice@culverco.com
Web: www.culverco.com

A publisher and distributor of educational materials about energy and related topics.

Produces booklets, educational websites, videos, posters, and program enhancement items for children and adults. Teacher discussion guides are also available. Utilities purchase and distribute these materials **in their service areas**; other organizations may purchase them directly. **38**

DENVER EARTH SCIENCE PROJECT

Office of Special Programs & Continuing Education
Colorado School of Mines
Golden, CO 80401
(303) 273-3621
(800) 446-9488 x 3621 (outside 303 area code)
Fax: (303) 273-3314
E-Mail: desp@mines.edu
Web: www.mines.edu/Outreach/Cont_Ed/desp/desp.html

A teacher enhancement program, in partnership with corporations, federal agencies, school districts, and professional organizations which provides innovative earth science curricula for use in grades 4 through 12.

Provides, for a fee, a series of educational workshops that address a range of earth science topics developed by trained curriculum development teams, including experienced earth science teachers and practicing scientists. The hands-on student activities included in each module incorporate real data and follow a problem-solving approach. Each module integrates mathematics, geography, economics, and social and environmental issues with basic earth science concepts. The modules are:

- *Oil and Gas Exploration (Grades 7-12)*
- *Ground Water Studies (Grades 7- 9)*
- *Paleontology and Dinosaurs (Grades 7- 9)*
- *Energy—A Closer Look at Oil and Gas (Grades 4 - 6)*
- *Do You Know Your 3 R's? Radiation, Radioactivity, and Radon (Grades 7-10)*

Each module contains a teacher resource kit which includes a teacher/student notebook, maps, audiovisual materials, posters, oil samples, groundwater models, etc. Call to find out the location of the nearest training site. **39**

DISNEY EDUCATIONAL PRODUCTIONS

105 Terry Drive, Suite 120
Newtown, PA 18940
1 (800) 295-5010
Fax: (215) 579-8589
Web: www.Edustation.com

Disney Educational Productions develops and distributes entertaining and thought-provoking videos that excite children of all ages to learn about a variety of subjects.

Offers educational videos (some titles on DVD as well) on energy, the environment, earth science, recycling, and water. Curriculum-oriented videos come with discussion guides and lesson plans. Titles include:

- Bill Nye the Science Guy shows, such as *Garbage*, *Pollution Solutions*, and *The Water Cycle*. Other relevant Bill Nye titles: *Atmosphere*, *Atoms*, *Biodiversity*, *Earth's Crust—Earth Science Archaeology*, *Electrical Current*, *Energy*, *Erosion*, *Forests*, *Fossils*, *Lakes & Ponds*, *Oceanography*, *Rivers & Streams*, *Rocks & Soil*, *Simple Machines*, *Static Electricity*, *The Sun*, *Volcanoes*, *Waves*, *Wetlands*, and *Wind*
- *Return to Sender: A Story About Littering*
- *Recycle Rex* (starring Disney's hip animated recycling dinosaur)
- *The Energy Savers* (starring Donald Duck, Mickey Mouse, and Goofy)
- *Zort Sorts: A Story About Recycling*
- *The Great Search — Man's Need for Power and Energy*

Bill Nye, the Science Guy, is now available on DVD. The DVDs include a Bi-Lingual (Spanish) mode, Interactive Science Quiz and Glossary, Bonus Footage and extended 20-page Teacher's Resource Guide.

New ABC News Classroom Edition video series includes one curriculum set entitled *The Final Frontier* concerning the space

program. The individual titles in this set are: *The Race to the Moon*, *The Shuttle Era*, *To Mars and Beyond*, and *Space Age Technology*.

Programs are available for purchase. Call the toll-free number to request a free catalog. **40**

DOMINION RESOURCES, INC.

North Anna Nuclear Information Center

1022 Haley Drive

Mineral, VA 23117

(540) 894-2029

(804) 771-3200

Fax: (540) 894-0379

Web: www.dominion.com/about/stations/nuclear/northanna/nanic.jsp

Surry Nuclear Information Center

5570 Hog Island Road

Surry, VA 23883

(757) 357-5410

Fax: (757) 357-4711

Web: www.dom.com/about/stations/nuclear/surry/snic.jsp

Dominion is one of the nation's leading energy companies, serving more than 5 million retail energy customer accounts in nine states. As one of the nation's largest producers of natural gas and electric power, Dominion operates seven nuclear reactors in three states, Virginia, Connecticut and Wisconsin.

We live in a wired world. Electricity is vital to everyday life – powering everything from computers to air conditioners, lighting our homes and running our factories. Nuclear energy produces electricity for one in five homes and businesses, the largest emission-free source of energy used in the United States. To provide you with facts concerning nuclear energy and electricity, Dominion operates Energy Information Centers at both of its nuclear power stations in Virginia. The North Anna and Surry Nuclear Information Centers offer interactive exhibits as well as high-energy presentations for groups of all ages. Educational programs (scheduled in advance) are provided free of charge and are designed to meet the Virginia Department of Education's Standards of Learning (SOLs.) All programs are tailored to the needs of your group, no matter the age or experience level. These programs are offered to you as a field trip to one of our Centers, or as an Outreach Program in your classroom. Contact us for a list of our *Energized Programs* and to schedule the experience that will meet the energy educational needs of your students. **41**

EARTH FOUNDATION

5401 Mitchelldale, B4
Houston, TX 77092
(800) 566-6539
(713) 686-9453 (in Houston)
Fax: (713) 686-6561
E-Mail: nhilton@earthfound.com
Web: www.earthfound.com

An organization dedicated to environmental education and conservation.

Each year thousands of schools participate in the Earth Foundation's Rescue the Rainforest Project. Thus far, the network of 10,000 active environmental teachers and students is responsible for raising \$10 million for rainforest conservation through the sale of environmental T-shirts. A *Rainforest Project Kit* is available to educators. The kit, which includes curriculum, videos, instructions, and a ready-made fundraising project, contains everything a school will need to supplement an ecology unit with a teaching method called *Solution-Based Teaching*. Upon completion, participating schools receive a certificate recognizing them for the acres adopted and written updates about the area being preserved. Schools that adopt ten or more acres receive a free follow-up video that shows students live footage of the area. Call 1 (800) 5-MONKEY to receive your *Rescue the Rainforest Kit* and for more information about this project or the *Coral Reef Rescue Campaign*. 42

EcoSOUL/NATIONAL FUEL CELL EDUCATION PROGRAM (NFCEP)

18051 Irvine Blvd.
Tustin, CA 92780
Phone: 714-368-1444
Fax: 714-730-8902
E-Mail: Skip@nfcep.org
Web: www.nfcep.org

Founded in 1993, EcoSoul, Inc. is a California 501(c)3 nonprofit focusing on energy, education and the environment. EcoSoul is host to the National Fuel Cell Education Program, promoting ways in which our future hydrogen economy can be realized through practical, hands-on educational materials.

Our mutual programs are deeply involved in the adoption of renewable energy in our country and the implementation of effective energy technology programs through educating our youth about

hydrogen systems, fuel cells, micro-turbines, wind and solar energy, ocean/tidal energy, biomass, biofuels, energy storage, transportation, energy efficiency programs and distributed power generation. **43**

EDISON ELECTRIC INSTITUTE (EEI)

701 Pennsylvania Avenue, N.W.

Washington, DC 20004-2696

To order publications: 1 (800) 334-5453

Fax your order: (301) 843-0159

Main number: (202) 508-5000

Web: www.eei.org

EEI is the association of shareholder-owned electric companies.

EEI suggests that you first contact your local electric company. Many utilities have educational programs about energy and the environment for schools. EEI's educational resources are located in the publications catalog online at www.eei.org/products/educational/index.shtml. Publications are available for a fee. **44**

EDISON MUSEUM

350 Pine Street

Beaumont, TX 77701

(409) 981-3089

Fax: (409) 838-2361

E-Mail: info@edisonmuseum.org

Web: www.edisonmuseum.org

A private, nonprofit education foundation that manages the only Edison museum west of the Mississippi River.

Provided are tours of the museum for school and organized tour groups. Films are available to groups not exceeding 35. By mail or over the Web are a series of free information handouts addressing Thomas Edison — the Inventor Bulletin Series. Tours involve a 20-minute orientation through the interactive museum. The exhibits cover Edison's life and his "major" inventions — the incandescent light bulb, the phonograph, and the motion picture camera. Interactive elements include a complete computerized database of Edison's 1,093 U.S. Patents, Edison silent movie sampler, Edison music sampler and a Morse code simulator. The museum is free and open Monday through Friday, 9:00 a.m. to 5:00 p.m. closed on major holidays. **45**

EDUCATIONAL DEVELOPMENT SPECIALISTS

5212 Katella Avenue, Suite 206
Los Alamitos, CA 90720
(562) 799-6002
Fax: (562) 799-6006
E-Mail: kayice@aol.com
Web: EDSpecialists.com or ThinkEarth.org

Curriculum developers and distributors of energy and environmental education programs.

Offers the *Energy Source Education Program* and the *Think Earth Environmental Education Program*. Sponsors nationwide can purchase program units to provide free to schools. Units are also sold directly to teachers and others. Energy Source units include People Power for grades 5 and 6. The award-winning *Think Earth* curriculum contains nine separate units, with videos, for students in pre-kindergarten through middle school. See the website for descriptions of each unit. **46**

EDUCATIONAL DIVIDENDS

302 West Hill Street, Suite 102
Champaign, IL 61820
(877) 359-9444
Fax: (217) 359-9446
E-Mail: carol@educationaldividends.com
Web: www.educationaldividends.com

Develops educational products that are designed to change the classroom paradigm to consistently produce creative self-learners who are employable.

Using its AND Model, offers classroom activities, curriculum and professional development that integrates technology, standards-based learning, leadership and workplace skills. To learn more about Educational Dividend's products and services, visit the above website. **47**

ENERGY EDUCATION GROUP

664 Hilary Drive
Tiburon, CA 94920
(415) 435-1527
E-Mail: energyforkeeps@aol.com
Web: www.energyforkeeps.org

A nonprofit educational organization founded to increase awareness and understanding of renewable energy.

Energy for Keeps is an illustrated guide to electricity from renewable energy. A text for all, plus class activities and science standards correlations (California and national), for grades 6 through 12. Comprehensive, inter-disciplinary, inquiry-based. Information available at www.energyforkeeps.org. **48**

ENERGYNET U.S.

302 West Hill Street, Suite 102
Champaign, IL 61820
(877) 359-ENET (3638)
Fax: (217) 359-9446
E-Mail: carol@educationaldividends.com
Web: www.energynet.net

A nonprofit organization offering standards-based, technology-enriched classroom projects for a moderate fee.

EnergyNet offers teaching material appropriate for all grade levels. Elementary students enjoy finding ways for their homes and schools to save energy through our *Energy Detectives* project.

Home Energy Makeover is designed for students in Math and Family & Consumer Sciences classes (grades 5-12). This six week unit incorporates economics, technology, team work and presentation skills. Students will learn to manage a home energy budget, reduce a home's energy use while increasing comfort, make cost-effective energy remodeling choices and present their suggestions in compelling ways.

Students in grades 6 through 12 have three additional choices: *Energy Auditing* provides a great background on the many ways students can reduce the costs of energy in their homes and schools; *Community Energy Consultants* assists students in sharing this knowledge with their community by conducting energy audits on any number of local buildings; and *Energy Engineers* involves students in the process of designing energy efficiency into school renovation and construction programs. To learn more about the hands-on projects and activities, visit www.energynet.net. **49**

ENTERPRISE FOR EDUCATION, INC.

1316 Third Street, Suite 103
Santa Monica, CA 90401
(310) 394-9864
Fax: (310) 394-3539
E-Mail: entfored@aol.com
Web: www.entfored.com

Offers booklets for primary and secondary school science classes free from many electric utilities.

Contact the education specialist at your local electric utility. Materials also may be purchased directly from the publisher. A catalog is available. Supplies a variety of 8-, 16- and 32-page *Energy and Environmental Skill Builder* color booklets. Teachers can create short-to-comprehensive units based on the subject and grade level. The following are available:

- *Environment* – “Using Our Resources Wisely” (grades 2 through 4); “The Greenhouse Effect and Global Warming” (grades 6 through 12); “Percentages Help an Environmental Engineer” (grades 6 through 8); and “The Clean Air Challenge,” 32 pages with video and science experiment kit (grades 8 through 10)
- *Conservation* – “Efficiency of Electric Appliances” (grades 6 through 10); “Climate and Comfort” (grades 6 through 12); “Is Efficiency the Best Energy Source?” (grades 9 through 12); “King Barkley’s Almost Birthday Disaster,” 32-page booklet plus 11-minute sing-along CD (grades kindergarten through 5); and “Electricity is in the News” (grades 4 through 8)
- *Nuclear Energy* – “Nuclear Reactor” (grades 8 through 12); “The Atom and Radiation” (grades 6 through 12); and “Nuclear Fuel Cycle” (grades 8 through 12)
- *Fossil Fuels* – “Coal: The Once and Future King?” (grades 6 through 9); “Natural Gas” (grades 6 through 12); “Geology of Oil” (grades 6 through 12); and “Refining Oil” (grades 8 through 12); “Safe at Home”; “Leo Learns How to Use Natural Gas Wisely” (Grades 4-8, 16-pages).
- *Electricity* – “Mouse House Surprise,” a 32-page teacher big book and student little book (safety) (grades kindergarten through 2); “Sam and Jody Save the Circus” (safety) (grades 2 and 3); “Paths for Electricity” (safety) (grades 3 through 5); “Energy Transformations” (grades 4

through 9); “Generating Electricity” (grades 5 through 9); “Sources of Electricity” (grades 5 through 9); “Demand for Electricity” (grades 6 through 9); “Working With Energy Graphs” (grades 6 through 12); “Measuring Helps an Electrician Wire an Apartment” (grades 4 through 6); “An Electrical Engineer Plans an Electrically Safe Outdoor Concert” (safety) (grades 5 through 9); “Electricity from Wind, Water & Sunlight” (grades 4 through 8), which includes a lab activity kit; and “Risk: Taking Chances, Making Choices” (grades 6 through 10)

- *Waste Management* – “Hazardous Wastes from Homes,” 40 pages and a 48-page teacher’s guide (grades 9 through 12)
- *Water* – “The Day the Water Stopped” teacher big book and student little book (grades kindergarten through 2). **50**

THE ENVIRONMENTAL EDUCATION COUNCIL OF OHIO

PO Box 1004
Lancaster, OH 43130
(740) 653-2649
Fax: (740) 653-6100
E-Mail: director@eeco-online.org
Web: www.eeco-online.org

The Environmental Education Council of Ohio (EECO) is a nonprofit organization that provides cutting-edge environmental education services throughout the state to all educators. EECO has a mission to lead in facilitating environmental education that fosters global stewardship and a sustainable future for all Ohioans.

The Environmental Education Council of Ohio (EECO) is a membership based nonprofit organization that has been providing environmental education services to Ohio and surrounding states since 1967. Since that time we have grown tremendously, and currently provide direct contact throughout the state with Regional Directors in all twelve regions of the Ohio.

EECO proudly offers cutting-edge workshops, conferences, a quarterly newsletter, green papers and other services to K-12 formal and nonformal educators. EECO is currently branching out to provide services now to adult audiences, the business community, environmental organizations, community based groups, universities, the general public, and other underserved audiences. We hope that you will join us in promoting the value of environmental education for all Ohioans. **51**

ENVIRONMENTAL HAZARDS MANAGEMENT INSTITUTE (EHMI)

10 Newmarket Road
P.O. Box 932
Durham, NH 03824
1-800-558-3464
(603) 868-1496
Fax: (603) 868-1547
E-Mail: tmurdoch@ehmi.org
Web: www.ehmi.org

An independent, nonprofit environmental, health and safety education and research institute working to promote environmental responsibility at home, in the workplace, and in the community through education and relationship building.

Offers environmental, health and safety education and outreach materials for adults and children. Topics include recycling/buy recycled; energy efficiency/conservation and indoor air quality; household chemical product management; water quality; lead poisoning prevention; used oil recycling; composting; and more. The balanced, well-researched information is offered in a variety of formats, including enviro-wheels (slide-charts); tabloid publication for school children; bookcovers; color-in activity books; color-in posters; and videos. There is a fee for all educational materials. Discounts are available on bulk orders. Free price list. **52**

EV MEDIA

1316 Third Street, Suite 103
Santa Monica, CA 90401
(310) 394-3980
Fax: (310) 394-3539
E-Mail: ab50@aol.com
Web: www.entfored.com (click on Electric Transportation button)

An educational publishing company providing electric vehicle-related materials.

Provides publications and activity kits on electric vehicles (EV) for schools and the general public. Materials range from color booklets for secondary school students to teacher guides, electric vehicle model kits, and discussion leader guides free from many electric utilities with EV programs. Materials cover electric vehicles, electricity, energy efficiency and conservation. Titles include: *Electric Car*, a 16-page color booklet (for grades 7 through 12); the 148-page *Teacher's Electric Car Book*, everything a teacher needs to

conduct a unit on electric vehicles; *The Electric Flyer Model Kit*, which includes everything needed to build a working, table-top size model electric vehicle; and *The Electric Vehicle Classroom Kit*, which includes a classroom set of color booklets; the *Teacher's Electric Car Book*; and five to eight *Electric Flyer Model* kits. The battery/charger option for the *EV Classroom Kit* includes five to eight rechargeable 1.5 volt AA Ni-cad batteries and a four-unit battery charger. Revised materials now include optional motor controller kits, with detailed assembly instructions included in the expanded *Teacher's Electric Car Book*. Contact your electric utility electric vehicle department for these materials, which are often offered at no cost to educators. Materials are also available directly from the publisher. Call the number above for latest pricing information. **53**

FIRSTENERGY CORP.

Community Initiatives Department
76 South Main Street
Akron, OH 44308-1890
(330) 761-4247
Fax: (330) 761-4203
E-Mail: tgilman@firstenergycorp.com
Web: www.firstenergycorp.com/education/

FirstEnergy Corp. is a registered holding company headquartered in Akron, Ohio. Its seven electric utility-operating companies comprise the Nation's 4th largest investor-owned electric system, serving 4.3 million customers within 36,100 square miles of Ohio, Pennsylvania, and New Jersey.

FirstEnergy's energy education program provides math, science and technology grants and free supplemental resources to educators, youth group leaders, and civic organizations in the communities served by FirstEnergy and our operating companies—Ohio Edison, The Illuminating Company, Toledo Edison, Penn Power, Met-Ed, Penelec, and Jersey Central Power & Light—and where we have facilities. These resources can be ordered on our website at www.firstenergycorp.com/education/. Check out the latest additions to our site and take a virtual tour of one of our coal generating plants. Without leaving your home, school or computer, you can take an amazing journey through a typical FirstEnergy coal-fired generating plant. Using digitized computer animation, visitors can go behind steel walls and see the inner-workings of complex machinery and systems that generate the electricity that powers your homes, schools and future workplaces. And, take a look at the "Electric Avenue" section of our site. This interactive site—offering

a world of information on electrical safety, energy sources and efficiency—is designed to be an excellent classroom resource. Electric Avenue also features fun energy games and facts geared to all grade levels. **54**

FLORIDA POWER AND LIGHT COMPANY (FPL)

Energy Encounter

6501 South Ocean Drive

Jensen Beach, FL 34957

(877) FPL-4FUN (toll free) or (877) 375-4386

Fax: (772) 467-7565

Web: www.fpl.com/encounter

A regulated investor-owned utility serving approximately 4 million customers in Florida.

FPL's Energy Encounter is a free energy information center that offers interactive exhibits featuring fun and entertaining information about energy, electricity, magnetism and nuclear power. Visitors embark on a treasure hunt exploring the riches of energy to discover that a souvenir awaits all who find the answers to the energy-related questions. Hands-on educational programs designed to meet state science curriculum are offered throughout the school year for grades 1 through 12 (by reservation only). Teacher workshops are offered focusing on science education, energy, and nuclear related topics. On selected the College of Turtle is also open. Turtle walks are available in June and July. For more information, call FPL's Energy Encounter toll-free at 1 (877) FPL-4FUN or 1 (877) 375-4386, or visit our website at www.fpl.com/encounter for directions, hours of operation, and upcoming special events. **55**

FLORIDA SOLAR ENERGY CENTER (FSEC)

1679 Clearlake Road

Cocoa, FL 32922

(321) 638-1000

Fax: (321) 638-1010

E-Mail: info@fsec.ucf.edu

Web: www.fsec.ucf.edu/ed/teachers and <http://energywhiz.com>

FSEC is a research institute of the University of Central Florida.

FSEC currently has several free downloadable curriculum units available on the website. The units include hands-on activities and PowerPoint presentations that align to science standards. The solar energy units include *Solar Matters I - III* for elementary and middle school students, *Understanding Solar Energy* for high school

students, and *Solar Wonders*, a PowerPoint presentation on the uses of solar energy. The environmental unit, *Alternative Fuel Matters* is for middle school students, while the Planet Janitor video and coloring book (available on the Energy Whiz site) are for elementary students.

Several new energy units are also now available, *High Energy Hydrogen* includes units for upper elementary, middle and high school students, and *Building Performance Matters* is available for high school students. The Energy Whiz website features student projects and submissions that deal with energy as well as experiments and hands-on activities that can be performed at home. A lending library of classroom materials is available for Florida teachers. **56**

FOODSERVICE & PACKAGING INSTITUTE, INC. (FPI)

150 South Washington Street, Suite 204

Falls Church, VA 22046

(703) 538-2800

Fax: (703) 538-2817

E-Mail: fpi@fpi.org

Web: www.fpi.org

A nonprofit trade association for manufacturers, suppliers and distributors of foodservice disposable products. These products consist of single-use cups, plates, bowls, bags, cutlery, trays, hinged-lid clamshell containers, and other paper, plastic, aluminum, and alternative materials products. Foodservice & Packaging Institute, Inc., supports the environmentally responsible manufacture, distribution, use, and disposal of foodservice disposables.

FPI offers a free teacher's kit (new version available on CD or FPI's website) that includes educational materials for middle school environmental science educators. This kit contains a full range of information and student activities, including a new interactive webpage. FPI also offers one-page issue sheets appropriate for middle and high school students on environment and sanitation. These explain the importance of foodservice disposable products to today's consumers. Single copies of these FPI publications are free to educators. Contact FPI for larger quantities. For additional information about other publications, visit the website. **57**

FREY EDUCATIONAL RESOURCES

100 Paragon Parkway

Mansfield, OH 44903

1 (800) 225-3739

Fax: 1 (877) 256-3739 or (419) 589-1546

E-Mail: customercare@freyscientific.com

Web: www.freyscientific.com

A full-line supplier of educational materials, equipment, and supplies for science, designed for students from kindergarten through college.

Offers a general science catalog that includes over 100 pages of products for earth science and ecology study. Product line consists of books, charts and posters, videos and video discs, software, kits, games, manipulatives, general supplies and equipment, and more. Products are available for a fee; catalog is free of charge. **58**

FUEL CELLS 2000

1100 H Street, N.W., Suite 800

Washington, DC 20005

(202) 785-4222

Fax: (202) 785-4313

E-Mail: info@fuelcells.org

Web: www.fuelcells.org

Fuel Cells 2000 is a nonprofit program to educate people around the world about the potential benefits of fuel cells, an advanced energy generation technology. Fuel cells combine hydrogen and oxygen electrochemically to produce energy. The only byproducts are water and useful heat.

Produces fuel cell information brochures and sends free information packets in response to requests from students, teachers, and the general public. Some publications include the *Fuel Cells in Transportation* brochure, the *Fuel Cell Quarterly*, the free monthly *Fuel Cell Technology Update*, and comprehensive charts (Fuel Cell Vehicles, Fuel Cell Buses, Fuel Cell Specialty Vehicles, Worldwide Hydrogen Fueling Stations, Worldwide Fuel Cell Installations). The Fuel Cells 2000 website provides basic fuel cell information, as well as extensive links; FAQs, a news group; an online bibliography of books and articles; and a gallery of fuel cell product images. Fuel Cells 2000 has a *Fuel Cell Career and Education Center* with company job pages for professionals and educational resources, lesson plans, and experiments for teachers and students, as well as the *Fuel Cell Match Maker*, an online message board. **59**

GENERAL ATOMICS SCIENCES EDUCATION

FOUNDATION

3550 General Atomics Court
San Diego, CA 92121-1194
(858) 455-3335
Fax: (858) 455-3379
E-Mail: pat.winter@gat.com
Web: fused.gat.com

A high technology research and development center.

Offers information to middle and high school teachers and students regarding current U.S. and worldwide nuclear fusion research that is aimed at understanding plasma science and fusion technology and their roles in providing an energy resource for tomorrow's needs.

Available materials include a 20-minute video (Spanish, French, or English), *Fusion: Creating a Star on Earth*; *STARPOWER*, an interactive learning adventure CD; and a teacher resource guide packed with experiments and a workbook on the electromagnetic spectrum, plasma, and radiation. Classroom posters on fusion, radiation, and the electromagnetic spectrum are also available.

These items are available free while supplies last. **Requests must be sent on school letterhead.** No requests honored by phone. Please visit at the above website. **60**

GEOHERMAL EDUCATION OFFICE

664 Hilary Drive
Tiburon, CA 94920
(415) 435-1527
Fax: (415) 435-7737
E-Mail: geo@marin.org
Web: www.geothermal.marin.org

A nonprofit educational organization serving teachers and students to increase awareness and understanding of geothermal energy.

Available for a fee are high school-and elementary school-level videos; an activity-packed geothermal curriculum for grades 4 through 8; and a set of classroom activities for grades 6 through 12 (free with purchase of video). A geothermal slide show (PPT) CD containing 122 colorful graphics and photos is also available for sale. See www.geothermal.marin.org. **61**

GEOTHERMAL HEAT PUMP CONSORTIUM

6700 Alexander Bell Drive, Suite 120
Columbia, MD 21046
(888) ALL-4-GEO
Fax: (410) 953-7151
E-Mail: info@ghpc.org
Web: www.geoexchange.org

Celebrating its tenth year in existence, the Geothermal Heat Pump Consortium has been working to increase the awareness and use of geexchange technology throughout the United States and the world. The Consortium, a nonprofit advocacy association, believes that the responsible use of energy resources are crucial to the nation's economy and our quality of life. Toward that end, increasing the use of geexchange technology will not only dramatically reduce our national energy consumption and greenhouse gas emissions, but also will slash its users' energy costs, and our nation's dependence on fossil fuels.

The Geothermal Heat Pump Consortium acts as a resource for anyone wishing to know more about geexchange technology. Our information catalogue includes items specifically addressing geexchange installations in schools, homes, and businesses, as well as more generalized topics. All full-color brochures, case studies, reports and documentaries are online at www.geoexchange.org.

Additionally, we will mail out copies of any of our materials to teachers and students free of charge. Our full-time staff and industry allies can also provide one-on-one technical expertise, marketing research data and insight, and current industry activity status to interested parties via e-mail or over the phone. **62**

HAWAIIAN ELECTRIC COMPANY, INC.

Education and Consumer Affairs Division
900 Richards Street
Honolulu, HI 96813
(808) 543-7511
Fax: (808) 543-7412
Web: www.heco.com

An investor-owned electric utility that serves the island of Oahu, in the State of Hawaii.

Hawaiian Electric Company (HECO) and its subsidiaries, Maui Electric Company and Hawaii Electric Light Company, provide free teaching materials to kindergarten through 12th grade educators located on the islands of Oahu, Maui and Hawaii. Services include

free books and school-based presentations, as well as loaning of CD Roms and videos related to electrical safety, basic electricity, energy conservation, renewable energy, and careers in the electric utility industry; HECO also supports educational programs, such as the Electron Marathon - an annual electric vehicle competition open to high school students; Solar Sprint - a miniature solar model car project for middle school students; Sun Power for Schools - schools are provided photovoltaic systems and curriculum based lessons on renewable energy and photovoltaics; and The Electric Universe - webpage at www.heco.com that provides students and teachers alike with electrifying information. For details on these programs, visit www.heco.com and go to Generation e. **63**

HONOLULU CLEAN CITIES

Alternative Transportation Fuels Program
c/o City and County of Honolulu
1000 Uluohia Street
Kapolei, HI 96707
(808) 587-3809
Fax: (808) 587-3820
E-Mail: mtome@dbedt.hawaii.gov
Web: www.state.hi.us/dbedt/ert/cc

A nonprofit organization participating in the U.S. Department of Energy's "Clean Cities" program. Members are fleet managers, fuel providers and utilities, government agencies, environmental organizations, and other experts in alternative transportation fuels and alternative fueled vehicles.

Provides a wide array of free alternative fuel- and vehicle-related videos, presentations, and publications to educators, students, fleet managers, and community groups in Hawaii. Other services include tours, alternative fuel displays, workshops, and "ride-and-drive" demonstrations of propane, biodiesel, and electric vehicles. Publisher of *Hawaii's Fun-Fueled Activity Book*, a 32-page book that introduces alternative fuels, pollution, and global warming through games, crossword puzzles, word searches, and "fill-in-the-blank" activities. The activities are suitable for grades 4 through 6; the fact sheets for grades 4 through 12. These activities and fact sheets can be downloaded in the original Microsoft Word format from the website listed above. Permission is given to use and modify the fact sheets and activities for non-commercial uses. **64**

ILLINOIS DEPARTMENT OF COMMERCE AND ECONOMIC OPPORTUNITY

Office of Coal Development
620 East Adams
Springfield, IL 62701
(217) 524-3820
Fax: (217) 558-2647
E-Mail: ldunbar@ildeco.net
Web: www.illinoiscoal.biz

A state coal education program committed to the continued and expanded use of Illinois' coal resources in environmentally safe and economically viable ways.

Provides coal curriculum on Illinois coal production, distribution, usage, research, development, and demonstration of clean coal technologies. *From the Coal Mines to the Power Lines* is a teaching resource manual covering the formation, history and uses of Illinois coal, Illinois coal mining and reclamation, as well as clean coal technologies.

The curriculum manual contains lesson plans and hands-on activities for grade level sections K-4, 5-8, and 9-12. Included with each curriculum manual are age-appropriate booklets, handouts, and posters. The curriculum is free. Coal awareness and education efforts target the general public through the media, schools, and special programs in an attempt to diffuse myths regarding Illinois coal and to disseminate sound, scientific information. A CD-ROM accompanies each of the three grade level sections. Each CD deploys a PowerPoint presentation highlighting glossaries of terms through the use of captions, questions, photos, clip art, descriptions and music. **65**

INDEPENDENT PETROLEUM ASSOCIATION OF AMERICA

Information Services Department
1201 15th Street, N.W., Suite 300
Washington, DC 20005
(202) 857-4722
Fax: (202) 857-0444
E-Mail: flawrence@ipaa.org or govrel@ipaa.org
Web: www.ipaa.org

The national association represents independent crude oil and natural gas explorers/producers.

Provides, for a fee, an annual yearbook of statistics on the crude oil- and natural gas-producing states. *The Oil & Natural Gas Producing Industry In Your State (OPI)* compiles exploration and production statistics for each producing state in a simple manner, suitable for junior and senior high school students. The new edition of the OPI is 2003-2004. In addition, the association provides a statistical brochure entitled *U.S. Petroleum Statistics* that contains 19 tables of statistical data for oil and natural gas. **66**

THE INSTITUTE FOR CHEMICAL EDUCATION (ICE)

Department of Chemistry
University of Wisconsin—Madison
1101 University Avenue
Madison, WI 53706-1396
1 (800) 991-5534
(608) 262-3033
Fax: (608) 265-8094
E-Mail: ICE@chem.wisc.edu
Web: <http://ice.chem.wisc.edu>

A nonprofit educational organization providing chemistry resources and graduate-level workshops for kindergarten through grade 12 teachers to better integrate hands-on chemistry into their classrooms.

Provides chemistry education materials and workshops to kindergarten through grade 12 teachers throughout the world. The publications, kits, and workshops are designed to help teachers include hands-on science activities in their everyday classrooms.

ICE's *Topics in Chemistry* series provides background chemical and environmental information on everyday topics. Topics include: *Acid Rain* — a brief history of acid precipitation; the sources of gases that cause acid rain and their conversion to acid in the atmosphere; details of the effects of acid precipitation on the environment; and available alternatives to reduce emissions that contribute to acid rain. *Acid Rain, Experimental Supplement* — five experiments showing the effects of acid rain on the environment, using easy-to-find materials; notes on presentation and curriculum integration are included. *The Hole in the Ozone Layer* — the chemistry, uses, and importance of ozone and chlorofluorocarbons; a history of theories involving their interactions in the atmosphere; the effect of ozone depletion on life; examination of changes in public policy; and the response of industry. *Nanocrystalline Solar Kit* — enough materials to make five solar cells (most of the materials can be reused) and a booklet with information on the origins of photosynthesis, use of

fossil fuels and renewable energy sources and the effects on the environment. The solar cells use natural dyes from berries and a common paint pigment to generate electricity from light. The booklet contains detailed laboratory directions for assembling a solar cell and circuit set-ups to measure the electrical output of the cell. **67**

INTERSTATE OIL AND GAS COMPACT COMMISSION

900 N.W. 23rd St.

Oklahoma City, OK 73105

(405) 525-3556

Fax: (405) 525-3592

E-mail: erica.smith@iogcc.state.ok.us

Web: www.iogcc.state.ok.us

The IOGCC is a multi-state government agency that champions the conservation and efficient recovery of domestic oil and natural gas resources while protecting health, safety and the environment. Established in 1935, it is the oldest, largest and most effective interstate compact in the nation.

The IOGCC publishes both technical and non-technical information on issues related to the production of natural gas and crude oil onshore the United States. The website includes information on careers in professions important to the vitality of the U.S. oil and gas industry; the importance of research and development in exploration, production and conservation; statistics and production information from low-volume wells that contribute significantly to the nation's energy supply; and various position statements reflected in resolutions adopted by the organization. A complete catalog of information is online at www.iogcc.state.ok.us. **68**

INTERSTATE RENEWABLE ENERGY COUNCIL'S (IREC) SCHOOLS GOING SOLAR CLEARINGHOUSE

P.O. 1156

Latham, NY 12110-1156

Phone/Fax: (518) 458-6059

E-mail: janep@irecusa.org

Web: www.schoolsgoingsolar.org

The Interstate Renewable Energy Council (IREC) has been working for over two decades as a non-profit organization committed to moving renewable energy resources into the marketplace. IREC emphasizes education and outreach, stakeholder coordination, technical assistance, workforce development, the adoption and

implementation of uniform guidelines and standards, consumer protection, and building networks to share experiences and information.

The Schools Going Solar Clearinghouse is one of a suite of programs/projects administered by IREC. Schools are GOING SOLAR! Bringing solar energy to schools is an important first step to increasing the use of solar energy in the entire community. Schools make excellent showcases for displaying the benefits of solar energy. Students learn about solar energy, and then can educate their parents and other adult members of the community about these technologies. This SGS Clearinghouse and its website are all about building a network, a community of people who can share experiences with solar energy in schools. Teachers, students, school and community officials and the general public should find the information contained in this website very useful in getting a project going, making an existing project more effective, and helping get the word out about these projects all over the country. The SGS Clearinghouse maintains a database of solar schools, facilitates contact among teachers in solar schools, links interested people together to exchange information/resources, and provides educational materials such as brochures, videos, lesson plans at www.schoolsgoingsolar.org. Explore the annotated links (many with free downloadable education materials), read the monthly newsletters, contact the people listed, and let us know if there is any way we can be of assistance. **69**

JEA

21 West Church Street
Jacksonville, FL 32202
(904) 665-6000
Fax: (904) 665-7386
E-Mail: smithr@jea.com
Web: www.jea.com

JEA is the eighth largest municipal utility in the country, providing electric, water, and sewer services to its customers. The JEA electric system currently serves more than 360,000 customers in Jacksonville and parts of three adjacent counties. JEA's water system serves more than 240,000 water customers and 186,000 sewer customers, or more than 80 percent of all water and sewer utility customers in northeast Florida.

JEA provides free energy, sewer and water educational booklets to schools **within the JEA service area**. Services include student and teacher materials for kindergarten through grade 12; speakers;

teacher workshops and programs with affiliates Tree Hill Nature Center and the JEA Science Theatre and AquaExpo at the Museum of Science and History. This exhibit is made up of two parts - the JEA Science Theatre and the AquaExpo. Kids visiting the theatre will participate in interactive science shows and learn about scientific theories as they relate to electricity and electrical safety. The AquaExpo focuses on the scarce and precious nature of water and how we can do our part to conserve it. **70**

JOHNSON CONTROLS, INC.

Academy of Energy Education
507 East Michigan Street
Milwaukee, WI 53202
(414) 524-5574
Fax: (414) 347-0221
E-Mail: michelle.l.tanem@jci.com
Web: www.johnsoncontrols.com

Provides facility services and building control system solutions to meet the specific needs of all types of nonresidential buildings, including training staff to operate equipment more efficiently; installing, maintaining, and servicing HVAC controls and mechanical systems, lighting controls, and life safety systems; performance contracting; and complete outsourcing operations.

Offers, in partnership with the National Energy Foundation, a curriculum-enhancing program that promotes energy education in kindergarten through grade 12-plus and expands into a school-to-work transition experience. Designed to encourage students to explore energy usage and its impact on the environment, the Academy of Energy Education programs include: *Energy Fun* for kindergarten through grade 3; *Energy Fundamentals* for grades 4 through 6; *Energy Action Patrol* for grades 5 through 8; *Energy Action Teams* for grades 6 through 9; and *Energy Action Technology* for grades 9 through 12. For high school students, the Academy features career exploration. College students can participate in externships in exchange for college credits granted by Utah State University. For more information, call your local Johnson Controls office or (888) 214-0916. **71**

KEEP AMERICA BEAUTIFUL, INC.

1010 Washington Boulevard
Stamford, CT 06901
(203) 323-8987
Fax: (203) 325-9199
E-Mail: info@kab.org
Web: www.kab.org

Keep America Beautiful is the nation's largest nonprofit public education and community improvement organization whose network of more than 540 city, county, statewide, and international affiliates engages individuals in programs that prevent litter and reduce, reuse, recycle, and properly manage waste materials. Through partnerships and strategic alliances with citizens, businesses, and government, Keep America Beautiful programs motivate millions of volunteers annually to clean up, beautify, and improve their neighborhoods, creating safer and more livable community environments.

Offers educational resources for teachers and students to provide a balanced perspective of waste and the options for its management in clear and user-friendly formats. The classroom curriculum supplement *Waste In Place*, for grades kindergarten through 6, builds critical thinking, processing, and problem-solving skills through imaginative, hands-on lessons. Lessons can be taught individually or in sequence. Developed and field-tested by professional educators and waste experts, the curriculum supplement is being used nationwide by thousands of teachers to influence positive behavior, foster social responsibility and respect for the environment, and enrich the learning experience. Learn more about Keep America Beautiful at www.kab.org. 72

KIDWIND PROJECT

2093 Sargent Avenue
St. Paul, MN 55105
781-354-2452
208-485-9419(fax)
Web: www.kidwind.org
Email: michael@kidwind.org

The KidWind Project is a team of teachers, students, engineers and practitioners exploring the science behind wind energy in classrooms around the US. Our goal is to introduce as many teachers and students as possible to the elegance of wind power through hands-on science activities which are challenging, engaging and incorporate science standards. While improving

science education is our main goal, we also aim to help schools become important resources for students, and the general public, to learn about and see wind energy in action.

The KidWind Project website contains detailed information on wind energy, downloadable lesson plans, PowerPoint presentations, movies, animations in addition to kits and materials to build classroom sized wind turbines. 73

KISSIMMEE UTILITY AUTHORITY (KUA)

Office of Corporate Communications
P.O. Box 423219
Kissimmee, FL 34742-3219
(407) 933-7777
Toll-free: (877) 582-7700
Fax: (407) 933-1761
E-Mail: cgent@kua.com
Web: www.kua.com

Florida's sixth largest municipally-owned utility providing electric, water, and telecommunication services to 170,000 residents in five Central Florida counties.

Provides free energy educational resources (coloring books, booklets, calendars, posters, kits, audiovisual materials, etc., for use in kindergarten through grade 12) to schools **within the KUA service area**. Services include student and teacher materials, speakers' bureau, powerplant and energy control center tours. A free color brochure highlighting the services and materials is available upon request. 74

LEARNONLINE, INC.

Thomas H. Frye Jr.
5286 Villa Mallorca Place
Camarillo, CA 93012 -5329
Phone: 805-383-3640
Fax: 805-985-8541
E-Mail: tomfrye@learnonline.com
Web: www.learnonline.com

Founded in 2002, LearnOnLine, Inc., a California for-profit company, is focused on project-based learning using the Internet and World Wide Web for courseware content and student/teacher collaboration. In project-based learning, students work in teams to explore real-world problems and create presentations to share what they have learned.

LearnOnLine continues to develop the Renewable Energy Education Lab (REEL Power) Project, which is designed as a K-12 and community college teaching aid offering hands-on techniques for learning math and science using renewable energy. REEL Power encourages students to learn to apply the math and science they are studying to simulated real-world renewable energy power generation systems. **75**

MIDWEST ENERGY EFFICIENCY ALLIANCE

One East Erie, Suite 200
Chicago, IL 60611
(312) 587-8390
www.mwalliance.org

The Midwest Energy Efficiency Alliance (MEEA) is a collaborative network whose purpose is to advance energy efficiency in the Midwest in order to support sustainable economic development and environmental preservation.

MEEA administers the Lights for Learning Program, a school fundraiser, which currently takes place in Illinois, and may expand to other Midwest states in the near future. MEEA also offers several rebates throughout the year on ENERGY STAR qualified products. Check for updates at www.mwalliance.org/consumers. **76**

MIDWEST RENEWABLE ENERGY ASSOCIATION

7558 Deer Road
Custer, WI 54423
(715) 592-6595
Fax: (715) 592-6596
E-Mail: info@the-mrea.org
Web: www.the-mrea.org

A grassroots private nonprofit educational organization dedicated to promoting renewable energy and energy efficiency through education and demonstration.

Offers special workshop series for teachers, children, and the general public. Hosts the Renewable Energy and Sustainable Living Fair every June in Central Wisconsin. This annual event features workshops, exhibits, speakers, a model home, renewable energy home tours, alternatively fueled vehicle showcase, entertainment, and more. Offers year-round workshops on renewable energy and energy efficiency. *ReNews*, a quarterly newsletter, is available for a minimal fee. **77**

MINERAL INFORMATION INSTITUTE (MII)

501 Violet Street
Golden, CO 80401
(303) 277-9190
Fax: (303) 277-9198
E-Mail: mii@mii.org
Web: www.mii.org

A nonprofit educational organization providing free resources and contacts to support classroom teachers.

Provides mineral and energy information at no cost to classroom teachers. Companies and other organizations may purchase MII materials at a nominal cost. Materials include videos, posters, lessons, and activities. The purpose of all materials is to increase awareness that **everything we have and everything we use comes from our natural resources.**

MII sponsored and continues to support revisions to the high school integrated science textbook, *Global Science: Energy, Resources, Environment*. Teachers should write on school letterhead to request free materials. Virtually all of MII's materials can be downloaded for free from the website. **78**

MINNESOTA DEPARTMENT OF COMMERCE—ENERGY DIVISION

85 7th Place East, Suite 500
St. Paul, MN 55101
(651) 296-5175
1 (800) 657-3710
Fax: (651) 297-7891
E-Mail: energy.info@state.mn.us
Web: www.commerce.state.mn.us

The State Energy Office provides a broad range of energy information to the general public. The State Energy Office also promotes energy efficiency and sustainable energy resource and technology development in Minnesota.

Provides a wide range of energy conservation materials for the general public. Educational materials are targeted to residential, commercial, and industrial audiences. This information is designed to encourage specific conservation practices and to increase public awareness of energy and energy-related issues. Some of these free materials may be appropriate for students in grades 6 through 12. The Department's Energy Information Center has a full-time staff to

provide individualized responses to consumers' energy-related questions. All printed materials and software are available through our website. 79

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

300 E Street, S.W., Code N
Washington, DC 20546-0001
Web: <http://education.nasa.gov>

A Federal agency with programs to advance the nation's education goals through expanding and enhancing the scientific and technological competence of all students and educators.

NASA's *Education Home Page* serves as a cyber-gateway to information regarding educational programs and services offered by NASA for educators and students across the United States. This high-level directory of information provides specific details and points of contact for all of NASA's educational efforts and Field Center offices.

Educators and students utilizing this site will have access to a comprehensive overview of NASA's educational programs and services, along with a searchable program inventory that has cataloged NASA's educational programs. NASA's online home pages, offered by NASA's four areas of research and development, include the Exploration Systems, Space Operations, Science, and Aeronautics Research. 80

NATIONAL ARBOR DAY FOUNDATION

100 Arbor Avenue
Nebraska City, NE 68410
(402) 474-5655
Fax: (402) 474-0820
E-Mail: Education@arborday.org
Web: www.arborday.org

A nonprofit education organization dedicated to tree planting, conservation, and environmental stewardship.

Provides free information on tree planting and care, including correctly planting windbreaks and shelterbelts, in the *Conservation Trees and Trees for America* brochures, as well as the *Celebrate Arbor Day Guidebook*. For elementary and middle school-aged children, the National Arbor Day Foundation also has available, for a nominal fee, curriculum kits that stress the contributions made by trees and the importance of environmental stewardship.

For samples of the free educational materials and to receive information about the curriculum kits, write or call to request an *Educational Resource Guide*. **81**

NATIONAL ASSOCIATION OF CONSERVATION DISTRICTS (NACD)

509 Capitol Court, N.E.
Washington, DC 20002-4949
(202) 547-6223
Fax: (202) 547-6450
Web: www.nacdnet.org

A nongovernmental nonprofit organization representing nearly 3,000 soil and water conservation districts and their state associations in the 50 states and U.S. territories. NACD serves its member districts as one voice, utilizing the force of local initiative and self government, in the conservation and development of natural resources on America's private working land.

Sponsors conservation education recognition programs for primary and secondary school teachers, as well as a poster contest for students. Publishes and sells educational materials about conserving soil, water and other natural resources. **82**

NATIONAL BIODIESEL BOARD

P.O. Box 104898
Jefferson City, Missouri 65110-4898
1-800-841-5849
Web: www.biodiesel.org

The National Biodiesel Board (NBB) is the nonprofit trade association representing the biodiesel industry as the coordinating body for biodiesel research and development in the U.S. The organization fills a vital role of public education for biodiesel, the fastest growing alternative fuel in the country. NBB is considered the leading source for biodiesel information in the U.S. State soybean commodity groups, who have funded biodiesel research and development programs for more than a decade, founded NBB in 1992. Since that time, NBB has developed into a comprehensive industry association, which coordinates and interacts with a broad range of cooperators including industry, government and academia. NBB's membership is comprised of state, national, and international feedstock and feedstock processor organizations, biodiesel suppliers, fuel marketers and distributors, and technology providers. NBB represents all feedstocks (sources for biodiesel).

To provide support to teachers and students wanting to learn more about biodiesel in the classroom, NBB, as part of a U.S. Department of Agriculture grant, partners with the National Energy Education Development (NEED) Project to provide classroom activities, teacher training, and school district decision maker programs. **83**

NATIONAL CORN GROWERS ASSOCIATION (NCGA)

632 Cepi Drive
Chesterfield, MO 63005
(636) 733-9004
Fax: (636) 733-9005
E-Mail: corninfo@ncga.com
Web: www.ncga.com

Actively represents the interests of producers of the nation's top grain crop. Membership includes 33,000 growers in 48 states and 44 affiliated state corn grower organizations. NCGA's mission is to create and increase opportunities for corn growers.

The organization provides teachers with a downloadable Web-based educational program, *Corn in the Classroom*, which illustrates corn as a reservoir of energy and a renewable substitute for products made from expendable fossil fuels. Additionally, the NCGA website includes links to its affiliate state corn-growing organizations, many of which have online education programs. Also, *The World of Corn* resource booklet, a statistical look at corn markets and trends, is available for download from our website. The booklet, which is free up to 25 copies, can be requested by contacting the organization. Additional copies cost \$3.00 per copy. **84**

NATIONAL COTTON COUNCIL OF AMERICA

Education Materials
1918 North Parkway
Memphis, TN 38112
(901) 274-9030
Fax: (901) 725-0510
Web: www.cotton.org

A nonprofit commodity organization representing 25,000 producers and processors of raw cotton. The organization is dedicated to strengthening the cotton industry's ability to compete effectively and profitably in the raw cotton, oilseed, and manufactured product markets at home and abroad.

Provides a variety of downloadable and audiovisual materials on cotton (www.cotton.org), including a videotape about the highly successful and environmentally sound *National Boll Weevil Eradication Program*. The tape, primarily for grades 3 through 12, includes a 3-minute program aired on the *Today's Environment* television series on the Discovery Channel. The eradication program uses an integrated approach for eliminating one of the U.S. cotton industry's major pests, such as plowing down cotton stalks after harvest, the strategic placement of traps baited with pheromone (sex attractant), and the judicious application of crop protection products. **85**

NATIONAL COUNCIL ON ECONOMIC EDUCATION

1140 Avenue of the Americas
New York, NY 10036
1 (800) 338-1192
Fax: (212) 730-1793
E-Mail: sales@ncee.net
Web: www.ncee.net

The National Council on Economic Education is a nonprofit organization dedicated to educating students in the principles of economics and personal finance. Visit our website or contact us for information on teacher resource manuals, student activity books, and curriculum development materials to assist educators in the K-12 classroom.

The following lessons are offered for a nominal fee. They can be reviewed on the website above:

Economics and the Environment — Helps high school students understand the crucial relationship between activity and environmental protection. Activities include courses in environmental studies, economics, natural sciences, social issues, and global issues. Classroom-tested lessons give students insight into a variety of environmental issues. Students learn key concepts — how natural resources are used and why, at times, misused, and how future economic activity can provide for environmental protection, as well as for economic growth. Selected by World Wild Life and North American Association for Environmental Education as an exemplary resource to help teach about biodiversity.

Economics and the Environment EcoDetectives — Applying economic reasoning to environmental problems for middle school students. Students learn about protecting endangered species, recycling, and resource depletion. Students solve persistent environmental mysteries. Materials highlighted by California

Integrated Waste Management Board and California Department of Education, together with the Acron Group.

The Great Economic Mysteries Book — Students in grades 9–12 solve engaging mysteries about environmental issues, natural resources, recycling, waste management, and government issues.

The Wide World of Trade — Through trade simulations and activities, students discover how scarce resources are allocated in order to provide goods and services. **86**

NATIONAL ENERGY EDUCATION DEVELOPMENT— NEED PROJECT

8408 Kao Circle
Manassas, VA 20110
(703) 257-1117
Fax: (703) 257-0037
E-Mail: info@need.org
Web: www.need.org

A national network of students, educators, and business, government and community leaders dedicated to the design and delivery of comprehensive, non-biased kindergarten through 12th grade energy education curriculum.

By meeting local, state, and national education standards, NEED programs provide students and teachers an opportunity to learn about energy through hands-on science, math, drama, social studies, art, and music. Student leadership initiatives encourage students to work with their peers, teachers, family, and community to design energy education programming for their region. The curriculum package is a six- to nine-week unit and is widely adopted for use in the classroom.

Memberships are available to educators for little or no cost, based on availability of sponsorship, from NEED's partners and sponsors. Participating educators receive the NEED Energy Kit with teacher guides to a variety of activities and a full portfolio of free items to complete their units based on their grade level. The materials include *Energy Infobooks* on the nation's leading energy sources; curriculum guides that help teachers plan comprehensive units to include the science of energy, energy sources, electricity, efficiency and conservation; and many evaluation/assessment and reinforcement options.

An extensive selection of hands-on science kits to teach energy transformations, solar energy, energy efficiency, electricity, magnets,

and hydrogen are available and often sponsored.

Workshops and conferences for teachers, students, and energy professionals are available throughout the year, and week-long summer training is offered annually. NEED's website has resources to teach an entire NEED unit available in PDF and other formats. Science Fair Projects, Transportation Fuel activities, and new Biodiesel and Ethanol components are available. As a recipient of a U.S. Department of Energy grant for hydrogen education, NEED will launch its hydrogen education and outreach programming in the fall of 2005. A partnership with the Bureau of Land Management - U.S. Department of the Interior provides a new Energy on Public Lands program for schools as well. For information about NEED programs, go to www.need.org and our EIA partnership project, the EIA Kid's Page, at www.eia.doe.gov/kids. 87

NATIONAL ENERGY FOUNDATION (NEF)

Resources for Education

National Office

3676 California Avenue, Suite A117

Salt Lake City, UT 84104

(801) 908-5800

Fax: (801) 908-5400

E-Mail: info@nefl.org

Web: www.nefl.org

A nonprofit educational organization providing educational resources and training services to educators.

Major initiatives include the *Igniting Creative Energy Challenge*, a national competition where K-12 students use their creativity to express their ideas related to being energy conscious. Entries include original art, music, literature, computer graphics, multimedia presentations, science projects, etc. NEF is also a Rebuild America strategic partner, working with school districts, state energy offices, and other partners nationwide to help bring down energy usage and costs at schools across the country. NEF continues to produce new energy-related instructional materials for K-12 teachers. New items include posters titled "*Electrical Generation*", "*Renewable Energy Sources*", "*Exploring Natural Resources and Their Uses*", "*Oil*", "*High Performance Schools*", and "*Energy Management in and around Your School*".

NEF provides a wide array of posters, learning activity guides, videos, and instructional music that focus on energy. Other new items available currently include learning activities guides titled "*Energy Fun*", "*Energy Fundamentals*", and "*Energy Action*".

Activities". NEF also distributes instructional materials nationwide through a "fulfillment" program with the natural gas industry, and the Foundation continues to provide in-service training support to school districts in many parts of the country. **88**

NATIONAL GEOGRAPHIC SOCIETY

School Publishing
1145 17th Street, N.W.
Washington, DC 20036
1 (800) 368-2728
Fax: (515) 362-3366
Web: www.nationalgeographic.com or www.ngschoolpub.org

A nonprofit organization.

Publishes supplemental curriculum materials for kindergarten through 12th grades on electricity, energy efficiency/energy conservation, environment, geosciences/earth sciences, recycling, and water. Materials include GeoKits (thematic, multimedia teaching kits); Windows on Literacy and Reading Expeditions nonfiction books; videos; atlases; PicturePack transparency sets; and PictureShow CD-ROMs. Free catalogs are available upon request at 1 (800) 368-2728. Free lesson plans and resources are offered at www.nationalgeographic.com/education. **89**

THE NATIONAL HYDROPOWER ASSOCIATION (NHA)

One Massachusetts Avenue, N.W., Suite 850
Washington, DC 20001
(202) 682-1700
Fax: (202) 682-9478
E-Mail: help@hydro.org
Web: www.hydro.org

An association dedicated to building greater public awareness of the advantages of hydropower as our nation's most plentiful renewable energy source.

Offers a variety of materials on the production of hydropower, hydro's economic and environmental benefits, and the issues facing the hydropower industry. Posters and educational curriculum are available at nominal cost. An annual conference is held every spring. NHA works closely with the Hydro Research Foundation, the U.S. Hydropower Council for International Development, and other organizations dedicated to hydropower and other forms of renewable energy. Staff is available to answer specific questions and to help identify sources of additional information. **90**

NATIONAL OILHEAT RESEARCH ALLIANCE

600 Cameron
Alexandria, VA 22314
(703) 340-1660
Fax: (703) 340-1661
E-Mail: info@nora-oilheat.org
Web: www.oilheatamerica.com

An independent, nonprofit organization dedicated to oilheating.

Publishes a variety of books, reports, consumer guides, and fact sheets. Material covers energy use and efficiency, technical papers, and educational materials for technical training. Prepares video educational materials concerning the oilheating industry. There is a catalog of materials available at www.norastore.org. All materials are distributed at the cost of production. **91**

NATIONAL PROPANE GAS ASSOCIATION (NPGA)

1150 17th Street, N.W., Suite 310
Washington, DC 20036-4623
(202) 466-7200
Fax: (202) 466-7205
E-Mail: info@npga.org
Web: www.npga.org

NPGA is the national trade association of the propane industry.

Propane Education & Research Council (PERC)

1140 Connecticut Ave., N.W., Suite 1075
Washington, DC 20036
(202) 452-8975
Fax: (202) 452-9054
E-mail: propanesupport@propanecouncil.org
Web: www.usepropane.com

PERC promotes the safe, efficient use of propane as a preferred energy source. Fact sheets, consumer safety brochures with a scratch and sniff feature, coloring books, and industry safety videos are available online at www.propanecatalog.com. Additional information is available on both organizations' websites. Homeowners can compare the cost of energy prices on www.usepropane.com. **92**

NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION

Youth Programs
4301 Wilson Boulevard
Arlington, VA 22203
(703) 907-5500
E-Mail: nreca@nreca.coop
Web: www.nreca.org or www.nreca.coop

A service organization representing the nation's more than 900 nonprofit consumer-owned cooperative electric systems, which provide electric service to more than 36 million people in 47 states.

NRECA publishes both a weekly newspaper and a monthly magazine covering electric co-op and industry issues. Congressional testimony, regulatory filings, press releases, and other public records are available online on the website at www.nreca.coop. **93**

NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA)

1840 Wilson Boulevard
Arlington, VA 22201
800-277-5300
888-433-0526
E-mail: pubsales@nsta.org
Web: <http://store.nsta.org>

The largest science teachers association in the United States, NSTA is working to improve the quality of science education nationwide.

Publishes resources for K-12 science teachers. A free book catalog is available upon request. Call 800-277-5300. **94**

NATIONAL WILDLIFE FEDERATION

11100 Wildlife Center Drive
Reston, VA 20190
1-800-822-9919
Fax: (703) 438-6468
E-Mail: wildlife@nwf.org
Web: www.nwf.org

The nation's largest nonprofit conservation education organization. The mission of the National Wildlife Federation (NWF) is to educate, inspire, and assist individuals and organizations of diverse cultures to conserve wildlife and other natural resources and to protect the earth's environment in order to achieve a peaceful and sustainable future.

NWF publishes the magazines *Wild Animal Baby*(™), *Your Big Backyard*, and *Ranger Rick*(™) for children, and National Wildlife; produces a free monthly electronic educator newsletter including activities and tips for creating Schoolyard Habitats; produces curriculum units and facilitates teacher training workshops around the country on the following topics: Creating Schoolyard Habitats, Discovering Habitats and Access Nature; produces online resources, such as the *Ranger Rick Educators' Guide* for use with Ranger Rick magazine in the classroom. Visit www.nwf.org/education for more information and to receive an educator information packet. 95

NATURAL GAS SUPPLY ASSOCIATION (NGSA)

805 15th Street, N.W., Suite 510
Washington, DC 20005
(202) 326-9300
Fax: (202) 326-9330
E-Mail: mmarion@ngsa.org
Web: www.ngsa.org or www.naturalgas.org

A national, nonprofit trade association representing integrated and independent companies that produce and market domestic natural gas. Established in 1965, NGSA encourages expanded use of natural gas and regulatory and legislative actions that foster competitive markets.

All materials provided by NGSA are available at www.ngsa.org, which features information about public policy issues of concern to natural gas consumers, as well as to those employed in and interested in the industry. Issues covered include supply issues (exploration and production, challenges and barriers to producing natural gas), issues related to the Federal Energy Regulatory Commission (including the transmission and gathering of natural gas and the rates and regulations of interstate natural gas pipelines), distribution issues (the market pressure on natural gas prices and how it affects the retail price of natural gas), and demand issues (environmental regulations that prevent natural gas from being used to improve air quality and the use of natural gas to generate electricity).

An annotated list of natural gas associations is included. NGSA also provides an educational primer about natural gas and the natural gas industry at www.naturalgas.org. 96

NEBRASKA PUBLIC POWER DISTRICT

Energy Education Team
P.O. Box 499
Columbus, NE 68602-0499
(402) 586-5960
Fax: (402) 586-5166
E-Mail: webeditor@nppd.com
Web: www.nppd.com

A public utility servicing the electric needs of its customers, with a chartered territory including all or parts of 91 of Nebraska's 93 counties.

Provides educational services free of charge to schools and civic groups in the utility's service area. Services include electrical safety assemblies, "Louie the Lightning Bug" presentations, classroom programs and speakers, films/videos, tours of power plants and other facilities, and literature for students and teachers in all grades. Also provides information on Nebraska Public Power District's Environmental and Energy management/conservation issues. Materials are available upon request for groups and individuals in the utility's service area. 97

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY (NYSERDA)

17 Columbia Circle
Albany, NY 12203-6399
(518) 862-1090 ext. 3303
1-800-658-5753 or toll-free 1-866-NYSERDA ext. 3303
Fax:(518) 862-1091
E-mail: tat@NYSERDA.org or Troggers@NEED.org
Web: <http://www.GetEnergySmart.org>

NYSERDA's holistic approach to energy-efficient schools invests in students, teachers, staff and school buildings. Our goal is to create energy-aware students, teachers and facility managers, while creating an efficient, healthy and safe learning environment.

The **Energy Smart Students Program**, in partnership with the National Energy Education Development (NEED) Project, provides K-12 curriculum materials in energy and energy conservation. Materials are classroom-tested and aligned with New York State Learning Standards. Training workshops introduce teachers to the lesson plans and curriculum; free curriculum is available to teachers attending the workshops. A summer conference trains teachers to be mentors for the program. Teachers may register for workshops and

also download free material from NYSERDA's website at www.GetEnergySmart.org.

The **School Power NaturallySM** Program provided working photovoltaic and data collection systems to 50 New York schools. Solar data collected from these 50 schools can be used in conjunction with **free**, interdisciplinary, middle and high school-level lessons. Data and lessons are available for **all teachers** at www.SchoolPowerNaturally.org.

Energy Smart Schools provides objective technical and financial assistance to eligible K-12 schools in New York. NYSERDA assists New York's school administrators and facility managers to build and maintain school buildings that provide a safe, healthy and energy-efficient environment for learning. More information is available at www.nyseda.org/programs/school/. **98**

NEW YORK STATE GEOLOGICAL SURVEY/STATE MUSEUM

3140 Cultural Education Center
Albany, NY 12230
(518) 474-5816
Fax: (518) 486-2034
E-Mail: wkelly@mail.nysed.gov
Web: www.nysm.nysed.gov/research/geology/

The mission of the New York State Geological Survey is to make services available to all agencies and people of New York State; conduct geological research; and cooperate with agencies of other states, federal government, educational institutions, and industry in the discovery, analysis, and dissemination of geologic information.

Provides free educational leaflets for both students and teachers for kindergarten through grade 12. Conducts workshops and classes in geological sciences through the New York State Museum in Albany, New York. Produces geological maps and reports for both professionals and the general public. A catalog of publications is available at www.nysm.nysed.gov/publications/geolpub.html. **99**

THE NOODLEHEAD NETWORK

107 Intervale Avenue
Burlington, VT 05401
1 (800) 639-5680
(802) 862-8675
Fax: (802) 864-7135
E-Mail: info@noodlehead.com
Web: www.noodlehead.com

An educational video producer and distributor that creates videos from a kid's viewpoint.

Produces and distributes educational videos for kids. Specializes in energy-related videotapes for utilities and the kindergarten through grade 12 school market. Kids play an integral role in the creation of each tape — from scriptwriting to acting to editing. Titles include: *Simple Things You Can Do To Save Energy*, *Simple Things You Can Do To Save Energy In Your School*, and *KnuckleHead's Electrical Safety Series*. Videos are available for purchase in VHS format or with duplication and broadcast rights. Free catalogs and preview copies of the videos are available upon request. **100**

NORTH CAROLINA SOLAR CENTER

Box 7401
North Carolina State University
Raleigh, NC 27695-7401
(919) 515-7085
(800) 33NC-SUN (for North Carolina only)
Fax: (919) 515-5778
E-Mail: ncsun@ncsu.edu
Web: www.ncsc.ncsu.edu

The North Carolina Solar Center serves as the state's clearinghouse for solar energy programs, research information, education and technical assistance. The Center is sponsored by the State Energy Office Department of Administration and the U.S. Department of Energy, with State Energy Program funds in cooperation with North Carolina State University. It is affiliated with the Industrial Extension Service and the College of Engineering at NCSU.

The Center seeks to advance the use of solar energy through information and education programs and services. The NCSU Solar House, built by the NCSU College of Engineering, is the education headquarters for the Center. The Solar House, which is open to the public, provides a reference library, video library, and educational

resources for teachers and students. A computer displaying renewable energy CDs and other Solar Center resources is located in the Solar House library. Our website provides a listing of our programs, workshops, special events, fact sheets, books for sale, library bibliography, videos, and other Solar Center resources. **101**

NORTHEAST SUSTAINABLE ENERGY ASSOCIATION (NESEA)

50 Miles Street, Suite 3
Greenfield, MA 01301
(413) 774-6051
Fax: (413) 774-6053
E-Mail: edu@nesea.org
Web: www.nesea.org

The nation's leading regional education and advocacy association that aims to accelerate the deployment and use of renewable energy, green buildings, and energy efficiency. NESEA produces major events that inspire and motivate large numbers of people to get involved and make a difference. Focus is on the northeastern United States (from Washington, DC to Maine).

Offers educational programs and resources that enable teachers and students to explore the science, technology, and potential of low-polluting, environmentally friendly, and secure energy options such as renewably-produced electricity, clean transportation fuels, alternative transportation systems, and healthy, efficient buildings. Several free publications are available from the website or can be ordered for the cost of shipping and handling. These include three middle school lesson sets, *Getting Around Without Gasoline*, *Getting Around Clean & Green*, and *Travel Solutions to Global Warming*; a high school unit on alternative fuels, *Cars of Tomorrow and the American Community*; and several elementary-level resources, *Choose Your Future Adventure Game*, *Trip Tally: Discovering Environmental Solutions*, and *Totally Tree-Mendous Activities*.

NESEA also develops resources for other organizations. For example, a middle school science unit on transportation and global warming and lessons that use mini solar-electric panels for hands-on inquiry of scientific principals. Both can be accessed from www.nesea.org. In addition, NESEA runs educational programs for teachers and students as follows: 1) the Northeast Regional Junior Solar Sprint that invites middle school students to participate in a miniature solar car competition run by area coordinators from the mid-Atlantic, New England, and New York States; 2) the Tour de

Sol: The Great American Green Transportation Festival, the clean-vehicle championship that invites high school students to build an electric or hybrid vehicle and enter the event and also invites students of all ages to take a field trip to the event and receive a guided tour of the vehicles; and 3) training workshops, conferences, and summer institutes for teachers. **102**

NORTHEAST UTILITIES

Community Relations-Educational Programs

P.O. Box 270

Hartford, CT 06141-0270

(800) 286-5000, ext. 4105

Fax: (860) 721-4331

Web: www.nu.com

An investor-owned electric utility serving Connecticut, western Massachusetts, and New Hampshire.

Conducts electrical school safety programs in all fourth/fifth grade classrooms in areas served by Northeast Utilities system companies. Booklets and posters on electric safety are available to customers and organizations in areas served by Northeast Utilities. Additional pamphlets on hypothermia, heat stress, home safety, energy conservation and weatherization are also available to customers and organizations in areas served by Northeast Utilities System.

Operating Companies of the Northeast Utilities System:

The Connecticut Light and Power Company (CL&P)

P.O. Box 270

Hartford, CT 06141-0270

Web: www.cl-p.com

Western Massachusetts Electric Company

WMECO Customer Service Center

P.O. Box 2010

West Springfield, MA 01090-2010

Web: www.wmeco.com

Public Service of New Hampshire (PSNH)

P.O. Box 330

Manchester, NH 03105-0330

Web: www.psnh.com

Yankee Gas Service Company (Yankee Gas)

P.O. Box 2249

Hartford CT 06145

Web: www.yankeegas.com **103**

NUCLEAR ENERGY INSTITUTE (NEI)

1776 I Street, N.W., Suite 400
Washington, DC 20006-3708
(202) 739-8000
Fax: (202) 785-4019
E-Mail: publications@nei.org
Web: www.nei.org

The nuclear energy industry's Washington-based policy organization.

Provides a variety of publications on nuclear energy issues, including the benefits of electricity generated by nuclear power, public opinion data on nuclear energy, and statistical data on nuclear energy. Complimentary packets of material on nuclear energy are available for students and teachers. For more information, contact the NEI Publications Office. **104**

NUCLEAR INFORMATION AND RESOURCE SERVICE (NIRS)

1424 16th Street, N.W., Suite 404
Washington, DC 20036
(202) 328-0002
Fax: (202) 462-2183
E-Mail: nirsnet@nirs.org
Web: www.nirs.org

A nonprofit information and networking center for citizens and environmental organizations concerned about nuclear power, radioactive waste, radiation, and sustainable energy issues.

Furnishes fact sheets on nuclear waste, safety, general information, and alternative energy. Single copies are available. *The NIRS Energy Audit Manual: How to Audit Campus & City Buildings* is available for postage and handling; includes chapters on lighting efficiency, heating, and air conditioning designed to help students calculate energy and cost savings for their school (high school and above). Current information on the nuclear industry and events is available, as well as a catalog of related articles. **105**

OFFSHORE ENERGY CENTER

200 North Dairy Ashford, Suite 6220
Houston, TX 77079
(281) 679-8040
Fax: (281) 544-2441
E-Mail: oceeducation@aol.com
Web: www.oceanstaroec.com

Ocean Star

Offshore Drilling Rig & Museum
Pier 19
Galveston, TX
(409) 766-STAR
Fax: (409) 766-1242
E-Mail: osmuseum@aol.com

A nonprofit corporation, the Offshore Energy Center is dedicated to expanding the awareness of the vast energy resources beneath the world's oceans and to chronicling the unique heritage and technological accomplishments of the industry that discovers, produces, and delivers these resources in a safe and environmentally responsible way.

The Offshore Energy Center sponsors the Ocean Star, an offshore drilling rig and museum in Galveston, Texas. The museum is a retired jack-up rig that has been refurbished, enabling visitors to enjoy learning about operating offshore rigs and specialized oil field equipment in a comfortable atmosphere, while experiencing the ambiance and accessibility of a quality museum. Offers group package discounts and is available for rentals. The museum also offers "Family Days" in which a specific topic related to the oil and gas industry is explored. Held the second Saturday of every month, admission is free for children with an accompanying adult. Museum is open daily 10 a.m. to 5 p.m. Closed Christmas and Thanksgiving.

Sponsorship for field trips to the museum, overnight programs, and guest speakers are available. *The Knowledge Box*, a mobile exhibit showcasing the many aspects of the oil and gas industry, is loaned free to surrounding school districts. *The Knowledge Box* contains teacher resources, hands-on activities, and interactive lessons. **106**

OHIO ENERGY PROJECT (OEP)

670 Enterprise Drive, Suite A
Lewis Center, OH 43035
(614) 785-1717
Fax: (614) 785-1731
E-Mail: oepeg@ohioenergy.org
Web: www.ohioenergy.org

A nonprofit energy education organization whose mission is to promote an energy-educated society and to facilitate youth leadership through effective partnerships with schools, businesses, government, and communities. OEP provides the complete energy education picture through hands-on, minds-on activities for teachers and students.

With a philosophy of “Kids Teaching Kids,” OEP facilitates workshops for elementary and middle school students led by high school student teams. These workshops focus on current, interdisciplinary, unbiased energy information and hands-on, authentic activities. Other workshop opportunities include: teacher professional development workshops including four-day Energy Sources Tours of Ohio’s energy sites; customized energy education programs featuring the science of energy; and new activities covering fuel cells and solar and nuclear energy.

An affiliate of the National Energy Education Development (NEED) Project, OEP offers a free partnership for Ohio educators. This partnership provides energy education materials, access to most workshops, and periodic updates on OEP information. **107**

OHIO OIL & GAS ENERGY EDUCATION PROGRAM (OOGEEP)

1718 Columbus Road, S.W.
P.O. Box 187
Granville, OH 43023-0535
(740) 587-0444
Fax: (740) 587-0446
E-Mail: rreda@ooga.org
Web: www.oogeep.org

The Ohio Oil and Gas Energy Education Program (OOGEEP) is a nonprofit educational program funded by Ohio’s oil and gas producers and royalty owners through a voluntary assessment on all crude oil and natural gas produced in Ohio.

OOGEEP offers the following materials: Educational posters—*Productions of Oil and Gas*, an *Ohio Oil and Gas Activity Map* and Information, and a safety poster; educational packets, including hands-on activities; puzzles; free teacher workshop materials; Science Fair information; and videos. For information on these materials, go to www.oogeep.org/EdMaterials/default.htm. **108**

OKLAHOMA ENERGY RESOURCES BOARD

3555 N.W. 58th, Suite 430
Oklahoma City, OK 73112
1 (800) 664-1301
(405) 942-5323
Fax: (405) 942-3435
Web: www.oerb.com

An oil and natural gas industry-funded state agency dedicated to energy education and restoring environmentally damaged, orphaned and abandoned oil and gas production and exploration sites.

Provides to Oklahoma educators, free of charge, the following: teachers' guides with classroom activities for *Fossils to Fuel* and *Petro Active*, two science-based energy curriculum units for elementary and middle schools. *Core Energy* high school curriculum offers teachers' guides covering the disciplines of math, science, social studies and language arts. Also sponsors 1-day training in the use of the curricula and reimburses school districts for substitute pay during workshops. Offers, free of charge, a statewide coordinated program entitled *Petro Pros (Petroleum Professionals in the Classroom)*. This interactive hands-on program is presented by oil and natural gas industry volunteers who bring energy facts to the classroom in 45-minute presentations. Also free of charge is an oil field safety video, *What's the Risk?* Geared towards middle school students, the video explains the dangers of playing around oil field equipment. It features extreme stunts by BMX and skateboard riders. *The Energy Behind Finding Energy*, a two-part video that explains the various stages of petroleum production, is free to educators. Produced in conjunction with Marathon Oil, the video includes information on exploration, drilling, extraction and refining. Copies are available in VHS and DVD format. **109**

OMAHA PUBLIC POWER DISTRICT

Consumer Relations Department
444 South 16th Street, 3E/EP1
Omaha, NE 68102-2247
(402) 636-3751
Fax: (402) 636-3922
E-Mail: sjefferson@oppd.com
Web: www.oppd.com

A public utility serving the electric needs of customers in eastern Nebraska.

Provides educational services free of charge to schools **in the utility's service area**. Services include classroom programs and speakers, career planning information, films/videos, tours of power plants and other facilities, and literature for students and teachers in all grades. Also provides information on Omaha Public Power District's Buddy Alert and Safetysaurus Programs. All materials are available upon request. **110**

PACIFIC GAS & ELECTRIC COMPANY (PG&E)

Customer Energy Management Department
245 Market Street, Room 645B, Mail Code N6G
P.O. Box 770000
San Francisco, CA 94177
(415) 972-5416
Fax: (415) 973-4961
E-Mail: PMW2@pge.com
Web: www.pge.com

An investor-owned utility serving more than four million residential customers.

Provides the Energenius Educational Series, several complete curriculum programs focusing on energy efficiency and gas and electric safety education for kindergarten through grade 8. Curriculum materials are provided at no cost to schools **within the service territory**. Energenius Educational Series comes complete with teacher curriculum guide and student activities for each student. The core of the series consists of multi-lesson classroom programs designed to engage students in active, age-appropriate learning and to relate to pace-setting curriculum standards such as those of the California Content Standards. Games and activities can be used inside or outside the classroom and involve both young people and their families. Order materials by going to PG&E's website and click on the icon for teachers. **111**

PEPCO

701 Ninth Street, N.W.
Washington, DC 20068
(202) 833-7500
Web: www.pepco.com

Pepco is a regulated electric utility that provides transmission and distribution services and is a wholly owned subsidiary of Pepco Holdings, Inc. Pepco delivers electricity at regulated rates to more than 700,000 customers in Washington, DC, and major portions of Prince George's and Montgomery counties in suburban Maryland.

Provides speakers for classroom presentations on the importance of electricity, electricity as an energy resource, electric safety, how electricity is delivered to homes, transmission and distribution lines, and energy management to schools in Pepco's service area. Pepco's website — www.pepco.com — provides a wealth of information and customer services online. A popular feature is *Megawatt U*, a fun site that teaches children about electricity and electrical safety. There's even a section with safety tips for adults. **112**

POLYSTYRENE PACKAGING COUNCIL (PSPC)

1300 Wilson Boulevard, 8th Floor
Arlington, VA 22209
(703) 741-5649
Fax: (703) 741-5651
Web: www.polystyrene.org

The Polystyrene Packaging Council (PSPC) is a business unit of the American Plastics Council. PSPC represents the major resin suppliers of polystyrene and the fabricator companies that use the resin to manufacture polystyrene products. Working in concert with its global partners, the PSPC's mission is to promote and defend the polystyrene industry by providing a forum to address issues of importance to the industry; to keep markets free by eliminating or amending anti-PS legislation/regulation; and to serve as the industry's voice to select audiences and the general public.

Offers general information brochures on polystyrene and solid waste management, which are available online at www.polystyrene.org. **113**

PPL CORPORATION

Education Relations/Community Affairs
Two North Ninth Street
Allentown, PA 18101-1179
Phone: (570) 253-7076
Fax: (570) 226-8602
Web: www.pplweb.com

PPL Corporation is a worldwide energy corporation. PPL generates electricity at power plants in the northeastern and western U.S., sells electricity in key U.S. markets, and delivers energy in Pennsylvania, the United Kingdom, and Latin America.

Provides energy and environmental education materials and programs to educators and students. This includes kindergarten through grade 12 curriculum, employees who volunteer as tutors, Nuclear Energy Seminar for Teachers (NEST) (worth three graduate credits), Energy for Living Workshops, Teaching Environmental Awareness (TEA) workshops, School-to-Career programs, electrical safety programs, a newsletter (*Partners*) for educators, and Let's Get Real real-life problem-solving competition for middle and high school teams. **114**

PROPANE EDUCATION & RESEARCH COUNCIL (PERC)

1140 Connecticut Ave., NW, Suite 1075
Washington, DC 20036
(202) 452-8975
Fax: (202) 452-9054
Web: www.usepropane.com

The purpose of the Propane Education & Research Council is to promote the safe, efficient use of propane as a preferred energy source. With the passing of the Propane Education and Research Act (PERA) in 1996 by Congress, the industry conducted a referendum among propane producers and marketers, who overwhelmingly approved the formation of the Council. Through the Council, the propane industry is committed to improve consumer and employee safety, to fund research and development of new and more efficient propane equipment, and to expand public awareness of propane and its many uses and environmental advantages. The direction of the Council is guided by several documents, including the Propane Education and Research Act, the Council's Policies, Rules, and Procedures, By-laws, and Strategic Plans. These documents and all Council documents are located in the Resource Library, at www.propanecouncil.org. You can also visit www.usepropane.com for information on the many uses of propane.

PERC develops a wide-range of materials for propane customers. Samples of the materials PERC produces are available for teachers to use. Teachers can learn more at www.propanecatalog.com.

Materials that may be of particular interest to educators are: *Play it Safe Around Propane* coloring book (item #0090), *Be safe by Being Careful with your LP-Gas* brochure (item #0008), *Safety Tips for Users of Small Propane Cylinders* brochure (item #0007), *How's Your Nose* brochure (item #003120), *Safe Grilling Tips* bill stuffer (item #008501), *Propane and Your Home: Understanding Propane Prices and Tips to Lower Your Energy Costs* brochure (item #8005), and 2005 Consumer brochure (item #008014). **115**

RAILROAD COMMISSION OF TEXAS

P.O. Box 12967

Austin, TX 78711-2967

(512) 463-7110 (“Alternative Energy” materials)

Fax: (512) 463-7292 (“Alternative Energy” materials)

E-Mail: dan.kelly@rrc.state.tx.us

Web: www.rrc.state.tx.us

A state energy agency that regulates the oil and gas, alternative fuels, and surface mining industries in Texas. The Commission serves Texans by: its stewardship of natural resources and the environment, its concern for personal and community safety, and its support of enhanced development and economic vitality.

Provides educational materials free to Texas teachers (kindergarten through grade 10). Materials for primary grades are available on the Commission’s website (click on “Kids’ World”). These materials include interactive activities on energy and safety at home, at school, and outdoors. The Commission also provides free educational workshops and a curriculum supplement called *Alternative Energy* for 6th through 10th grade science teachers in Texas. *Alternative Energy* is the second edition of the Commission’s successful 1996 *Alternative Transportation Fuels* curriculum supplement. All materials are correlated with Texas Assessment of Knowledge and Skills standards. All 25 lessons, excluding tests and answer keys, are available on the Commission’s website (click on “Energy Curriculum”).

Lessons are organized in units called “Energy” (six lessons), “Fuels” (nine lessons), “Technology” (four lessons), and “Environment” (six lessons). A teacher’s guide, equipment list, answer keys, glossary, bibliography and a list of additional web-based and other resources are provided. *Alternative Energy* is funded by a grant from Texas State Energy Conservation Office. **116**

RENEWABLE ENERGY POLICY PROJECT (REPP)

1612 K Street, N.W., Suite 202
Washington, DC 20006
(202) 293-2898
Fax: (202) 293-5857
E-Mail: info2@repp.org
Web: www.repp.org

REPP is a 501(c)3 nonprofit organization dedicated to accelerating the use of renewable energy by providing credible information, insightful policy analysis, and innovative strategies amid changing energy markets and mounting environmental needs by researching, publishing, and disseminating information, creating policy tools, and hosting highly active, online, renewable energy discussion groups.

REPP supports the advancement of renewable energy technology through policy research. REPP seeks to define growth strategies for renewables that respond to competitive energy markets and environmental needs. Since its inception in 1995, REPP has investigated the relationship among policy, markets and public demand in accelerating the deployment of renewable energy, which include biomass, hydropower, geothermal, photovoltaic, solar thermal, wind and renewable hydrogen. The organization offers a platform from which experts in the field can examine issues of medium- to long-term importance to policymakers, green energy entrepreneurs, and environmental advocates. **117**

RENEWABLE FUELS ASSOCIATION

One Massachusetts Avenue, N.W., Suite 820
Washington, DC 20001
(202) 289-3835
Fax: (202) 289-7519
E-Mail: info@ethanolrfa.org
Web: www.ethanolRFA.org

A national nonprofit association promoting domestically produced renewable ethanol as an alternative to imported energy sources.

Provides general information and an Industry Annual on ethanol, a clean-burning, renewable transportation fuel produced from agricultural feedstocks and wastes. Additional information is available free of charge by visiting the website or calling the number above. **118**

SAN DIEGO MIRAMAR COLLEGE

Advanced Transportation Technology Center
10440 Black Mountain Road
San Diego, CA 92126
619-388-7673
Fax: (619) 388-7905
E-Mail: gnewhous@sdccd.edu
Web: www.transportationtech.com

The Advanced Transportation Technology (ATT) Center at Miramar College was initiated in 1996. It is one of ten centers throughout California dedicated to transforming the workforce in the rapidly developing, technology-driven transportation industry, while improving the environment and stimulating the economy. Such a transformation includes education and programs in transportation-related areas that are developed and provided to elementary, middle, and high school students.

At San Diego Miramar College, the ATT Center works to integrate new technologies and information on new fuels into the curriculum of the college's diesel, aviation, and automotive programs, as well as working to integrate those programs with the academic offerings of the school. In turn, these programs are adapted to provide education to younger students in a variety of outreach activities and information. An example of this is our booklet *Introduction to Alternative Fuels and Alternative Fueled Vehicles*. This booklet is free upon request or can be downloaded from our website. **119**

SCIENCE SCREEN REPORT (SSR)

1000 Clint Moore Road
Boca Raton, FL 33487-2806
1 (800) ASK-INFO
Fax: 1 (888) FAX-3737
E-Mail: 2scott@ssrvideo.com
Web: www.ssrvideo.com

The award-winning videotape series made available to schools free of charge through corporate support.

Science Screen Report is an ongoing series of secondary and elementary videos that focus on the most recent developments in technology, chemistry, engineering, energy, medicine, and the environment. Produced since 1970, SSR is a proud participant in the National Science Foundation's Presidential Awards for Excellence in Mathematics and Science Teaching. SSR is designed to stimulate student interest in the challenges, opportunities, and rewards of

pursuing science-related careers. The programs are used nationwide by more than 7,000 school districts. The donated materials become the permanent property of the school system. Available on VHS, DVD, or streaming video. Visit www.ssrvideo.com to request a corporate sponsor. **120**

SCIENCE SERVICE

1719 N Street, N.W.
Washington, DC 20036
(202) 785-2255
Fax: (202) 785-1243
E-Mail: sciedu@sciserv.org
Web: www.sciserv.org

The mission of Science Service is to advance the understanding and appreciation of science among people of all ages through publications and educational programs. In addition to our educational programs, Science Service also publishes the weekly news magazine, Science News, and the online www.sciencenewsforkids.org.

Science Service administers three educational programs. The Intel International Science and Engineering Fair (ISEF) is a competition for students in grades 9 through 12. Students participate in their regional and/or state ISEF-affiliated fair. Two individual student projects and one team project of up to three students (per fair) are chosen to participate in the Intel ISEF. Participants are eligible for scholarships, scientific field trips, summer research internships, and equipment. The Intel Science Talent Search is America's oldest and most highly regarded science contest for high school seniors. To be eligible students must submit an individually researched project to enter this science competition. From the 300 semifinalists, 40 finalists will be chosen to attend the Science Talent Institute in Washington, DC, where students exhibit their research at the National Academy of Sciences and compete for the top prize of a \$100,000 four-year scholarship. Deadline for the 2005-2006 program is November 16, 2005.

The Discovery Channel Young Scientist Challenge is a national science competition for 5th through 8th graders. Students win a nomination at their local, regional and/or state science fair and are eligible to complete a written entry in the national competition. Four hundred semifinalists are chosen and announced in August and the finalists are announced in September. In October the finalists travel to Washington, DC, for an all-expense-paid trip to compete for over \$60,000 in scholarships and trips. For more information, please visit our website at www.sciserv.org. **121**

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

SAE Foundation
400 Commonwealth Drive
Warrendale, PA 15096-0001
1 (800) 457-2946
Fax: (724) 776-0890
E-Mail: awim@sae.org
Web: www.sae.org/students

The SAE Foundation is dedicated to supporting the development of educational programs to improve mathematics, science, and engineering education, from the elementary grades through graduate school.

Provides *A World in Motion: The Design Experience (AWIM)*, a series of four specially adapted engineering design challenges for grades 4 through 10. AWIM is a multidisciplinary curriculum, which includes math, science, social studies, and technology education. The program is an integrated curriculum built upon a real-life scenario. The goals of AWIM are to improve the teaching and learning of science, mathematics, and technology education through the integration of the disciplines. AWIM is a program based on an engineering design experience, suitable for elementary and middle school students and teachers, to strengthen the collaboration between students in design teams and teachers in teaching teams, and to mobilize members of the community as classroom volunteers in support of a curriculum experience. Please e-mail or write to SAE to obtain information on how to receive a free copy of *A World in Motion* for your local school. **122**

THE SOCIETY OF THE PLASTICS INDUSTRY, INC. (SPI)

1667 K Street NW, Suite 1000
Washington, DC 20006
(202) 974-5200
Web: <http://plasticsindustry.org>

Founded in 1937, The Society of the Plastics Industry, Inc., is the trade association representing one of the largest manufacturing industries in the United States. SPI's members represent the entire plastics industry supply chain, including processors, machinery, and equipment manufacturers, and raw material suppliers. The U.S. plastics industry employs 1.4 million workers and provides nearly \$310 billion in annual shipments. For more information, visit SPI at www.plasticsindustry.org.

SPI provides educational resources for elementary and middle-school educators and information for consumers to increase public understanding of the facts related to plastic bags. *Don't Let a Good Thing Go to Waste* is an environmental education program for students in grades 2 through 5. *An Ounce of Prevention* is a middle school curriculum. Its poster-lesson plan on the *Life of a Hamburger* comprises a complete resource for teaching the elements of waste generation and prevention. The full nine-activity curriculum, developed with the National Science Teachers Association and Dow Chemical Company, helps students see how many resources are consumed and how much waste is generated in daily-life activities, such as eating a hamburger and choosing plastic or paper at the supermarket checkout counter. These activities help them realize the value of prevention when it comes to waste.

Through the *Fantastic Plastics Works*, SPI's 5,000-plus sq.-ft. plastics industry showcase at INNOVENTIONS at *Epcot*® at the *Walt Disney World*® Resort in Lake Buena Vista, FL, SPI teaches children of all ages about the full scope of the plastics industry, from chemistry to design to manufacturing and products, with a healthy nod to human ingenuity and creativity. Anchored by SPI and supported by contributions from many other companies, the exhibit seeks to improve the public's understanding and appreciation of the plastics industry and to encourage children to pursue careers in the industry. The exhibit is housed at INNOVENTIONS, a unique attraction filled with hands-on, interactive exhibits, where guests discover how the latest in science and technology can simplify and enhance their lives. To learn more, visit our website at www.plasticsworks.com. **123**

SOLAR ELECTRIC POWER ASSOCIATION (SEPA)

805 15th Street NW, Suite 510
Washington, DC 20005
(202) 857-0898
Fax: (202) 682-0556
E-Mail: info@solarelectricpower.org
Web: www.SolarElectricPower.org

The Solar Electric Power Association (SEPA) is a collaboration of utilities, energy service providers and the photovoltaic industry working together to create and encourage commercial use of new solar electric power business models.

SEPA helps to establish standards for solar electricity systems and their connection to the utility grid, hosts cross-industry workshops, and manages educational and outreach campaigns. Publications

include: *Schools Going Solar, Volumes I & II*; a guide to schools enjoying the power of solar energy; the *SEPA Record*, a solar energy newspaper about current projects and events in the industry; community PV (CD-ROM) *How you can use solar power, solar programs in North America*, describes successful solar energy projects and includes a “solar town meeting” (available for a nominal fee); *Solar Power-Making the Dream Real* is a 10-minute videocassette tape (available for a nominal fee); 4.5 Megawatts & Counting: Technology and Business Perspectives on TEAM-UP; and *Large and Small Solar Systems Cost Reports*, detailing the costs of residential and large solar electricity projects installed as part of a Department of Energy and SEPA collaboration (available for a nominal fee). **124**

SOLAR ENERGY INDUSTRIES ASSOCIATION

805 15th Street NW, Suite 510

Washington, DC 20005

(202) 682-0556

Fax: (202) 682-0559

E-Mail: info@seia.org

Web: www.seia.org

A nonprofit national trade association which represents the photovoltaic, concentrating solar, and thermal manufacturers, distributors, installers, and all other solar advocating groups.

Up-to-date information on solar thermal and electric costs, market size, technologies, and performance available by phone or e-mail. **125**

SOLAR NOW, INC.

The Sunroom

100 Sohier Road

Beverly, MA 01915

(978) 927-9SUN

Fax: (978) 927-9191

E-Mail: solarnow@comcast.net

Web: www.solarnow.org

A national nonprofit organization providing education about all forms of renewable energy to teachers, students, environmentalists, and sustainability enthusiasts.

Solar Now’s field study center is based at one of the nation’s oldest and largest photovoltaic sites, which also hosts a 10-kW windmill and interactive classroom. The site is undergoing major enhancements and is scheduled to open in June, 2005, as

‘*GREENERGY PARK*’, a Renewable Energy Technology Eco-Tourist Destination. (See website for details.) Field trips may be arranged by calling the above number. Solar Now provides programs for students and educators seeking hands-on renewable energy education, including: comprehensive teacher education workshops, summer internships for college students, student conferences, and a library of renewable energy activities. A desktop publication, *A Curriculum Framework for Education in Environmental and Renewable Energy Science: Grades Pre-Kindergarten through 1st Year College*, is available for a small fee.” **126**

STEEL RECYCLING INSTITUTE

680 Andersen Drive
Pittsburgh, PA 15220-2700
1 (800) 876-7274
Fax: (412) 922-3213
E-Mail: sri@recycle-steel.org
Web: www.recycle-steel.org

An industry association dedicated to promoting and sustaining steel recycling across the country.

Provides materials for primary, middle, and secondary school educators. Materials include: *Nature's for ME*, a preschool teacher's guide filled with nature-related interactive exercises; *YES I CAN!*, a video and teacher's guide for grades 1 through 3; and *Earth Cycles*, a cross-age teaching program for grades 8 through 12 and grades 3 through 5. The guide outlines three hands-on activities: *Roscoe's Totally Cycled World*, a middle school CD-ROM with interactive missions in science, language arts, math, and social studies; *Cycles for Science*, high school curriculum supplements for biology, chemistry, physics, and earth/life science; and a community volunteer activities guide to support the program. Information and prices are available through order forms. Additional materials, such as activity sheets and a coloring poster, are available. Please indicate grade level(s) for which materials or order forms are needed. **127**

THE WILDS

14000 International Road
Cumberland, OH 43732
740-638-2301
Fax: 740-638-2287
E-Mail: lbusby@thewilds.org
Web: www.thewilds.org

The Wilds is a nonprofit organization working to advance conservation through education, science and personal experience.

With a remarkable 14-square miles of grassland, forest, lake and wetland habitats to explore, *The Wilds* can offer one of the most comprehensive conservation education programs in the region. The previously impacted landscape also presents an outdoor laboratory for ecology and ecosystem restoration like no other. Here students see the impacts of our lifestyles on the environment and yet can be instilled with a sense of hope for the future as they learn about the ways we can improve degraded habitats and get involved personally with wildlife and our shared environment.

The wildlife research facilities, veterinary clinic, unique animal handling procedures, worldwide wildlife focus, and 'out-in-it' residential camps of *The Wilds* gives each student a holistic view of their responsibility for stewardship. *The Wilds* also prepares students to understand new technologies in the natural resource field and equips them to make wise decisions in the future use of our planet and its living resources. Newest among *Wilds*' Education opportunities is the Hands on the Land restoration ecology program. In this program students will spend 3 full days on *The Wilds* making ecology a practical science and being encouraged to develop their own ecological ethic. **128**

UNION OF CONCERNED SCIENTISTS (UCS)

Two Brattle Square
Cambridge, MA 02238-9105
(617) 547-5552
Fax: (617) 864-9405
E-Mail: ucs@ucsusa.org
Web: www.ucsusa.org

The Union of Concerned Scientists is a nonprofit partnership of scientists and citizens combining rigorous scientific analysis, innovative policy development, and effective citizen advocacy to achieve practical environmental solutions.

Established in 1969, we seek to ensure that all people have clean air, energy, and transportation, as well as food that is produced in a safe and sustainable manner. We strive for a future that is free from the threats of global warming and nuclear war and a planet that supports a rich diversity of life. Sound science guides our efforts to secure changes in government policy, corporate practices, and consumer choices that will protect and improve the health of our environment globally, nationally, and in communities throughout the United States. In short, UCS seeks a great change in humanity's stewardship of the earth.

Materials for educators can be found at www.ucsusa.org/global_environment/global_warming/page.cfm?pageID=883. Reports and fact sheets can be downloaded from our website. **129**

UNIVERSITY OF ILLINOIS AT URBANA—CHAMPAIGN

School of Architecture — Building Research Council

1 East St. Mary's Road

Champaign, IL 61820

1 (800) 336-0616 or (217) 333-7551

Fax: (217) 244-2204

E-Mail: jshiffer@uiuc.edu

Web: www.arch.uiuc.edu/programs/buildingresearchcouncil

A nonprofit information clearinghouse and research center.

Publishes 8-, 12-, and 16-page booklets on how to make homes comfortable, healthy, and energy efficient that are appropriate for home owners and seniors in high school. BRC offers the following publications at a nominal fee: *Home Inspection*, which examines each home system — plumbing, electrical, etc. — and provides a checklist for buying a home; *Lighting*, which focuses on task, security, and general lighting; *Energy Management*, which outlines practical management plans for summer and winter; *Insulating*, which focuses on how to know what type and how much insulation is needed; *Heating*, which is about the various kinds of heating systems and how to select a system; *Selecting Windows*, which explains window options and energy savings by selecting wisely; and *Moisture Condensation*, which discusses how to keep moisture from making a home chilly and prone to water damage.

A free publications catalog is available upon request. A complete set of 27 booklets is available for instructors and home owners. Bulk rates are available. A limited number of publications are available for viewing at the website in PDF format. Landscaping, passive solar house plans, noise control and a multitude of additional topics are also covered in our publications. **130**

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

Conservation Communications Staff
P.O. Box 2890
Washington, DC 20013
(202) 720-3210
Fax: (202) 720-1564
Web: www.nrcs.usda.gov

Since 1935, NRCS, formerly the Soil Conservation Service, has been the nation's leading federal conservation agency working with private landowners to help them protect their natural resources.

Through its national system of state and county-level offices, NRCS emphasizes voluntary science-based conservation technical assistance, partnerships, incentive-based programs, and cooperative problem-solving at the community level. Natural resource conservation programs are designed to reduce pollution, improve soil and water quality, increase wildlife habitat, and provide many other environmental benefits in an energy-efficient manner.

NRCS assists and maintains working relationships with numerous educational, youth, civic, environmental, and conservation organizations on resource conservation issues and materials development. Limited quantities of free materials about natural resource conservation topics are available from NRCS. Many of these materials have been designed for the educational audience and are adaptable to fit educators' curricular needs. They include the Water Cycle: Nature's Recycling System poster, *Conquest of the Land Through 7,000 Years*, *Conservation Buffers Work—Economically and Environmentally*, plus the popular *Backyard Conservation* booklet and related materials. Soil surveys, normally prepared on a countywide basis, are available from the local NRCS office. Soil surveys provide detailed descriptions of local soils, their location, genesis, characteristics, and suggested best uses. Snow survey and water supply forecasts provide western states and Alaska with vital information and forecasts of seasonal variable water supplies. Plant Material Centers offer information on the usefulness of plant species for biomass production, carbon sequestration, erosion reduction, wetland restoration, water quality improvement, streambank and riparian area protection, coastal dune stabilization, and to meet other special conservation treatment needs.

To contact your local NRCS office, look in the local telephone directory under U.S. Government, U.S. Department of Agriculture,

Natural Resources Conservation Service, or online at <http://offices.usda.gov>. To order publications, go to www.nrcs.usda.gov and look for the “Publications” in the Quick access links on the left or telephone 1 (888) LANDCARE (toll-free). Visit the NRCS website, www.nrcs.usda.gov, to review materials and resources available through the agency’s various institutes and centers. **131**

U.S. DEPARTMENT OF COMMERCE—NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA)

NOAA Education Outreach Unit
1305 East West Highway, #1W514
Silver Spring, MD 20910
(301) 713-1208
Web: www.education.noaa.gov

A Federal agency with programs that advance the Nation’s science education goals by expanding and enhancing the scientific competence of all students, teachers, and the general public.

Provides information free of charge to students, teachers, librarians, and the general public about the earth’s oceans and atmosphere, including the topics of endangered marine mammals, severe and hazardous weather, El Niño/La Niña, NOAA weather radio, coastal management, weather satellites, and global warming. Information about NOAA’s educational programs, like the Teacher at Sea, is also available from this office. Additional information can be found at www.education.noaa.gov. **132**

U.S. DEPARTMENT OF ENERGY—ARGONNE NATIONAL LABORATORY

Division of Educational Programs
9700 South Cass Avenue
Argonne, IL 60439
(630) 252-4114
Fax: (630) 252-3195
Web: www.dep.anl.gov

A DOE-funded, multi-purpose national laboratory providing programs to promote science careers and improve science education.

Provides continuing programs for teachers as follows: (1) The Argonne Community of Teachers, a local organization of teachers who have participated in Argonne programs in the past and who continue to work with the Laboratory to improve science education

for schools in the Chicago area; (2) The laboratory Science Teacher Professional Development Program provides simulated research opportunities and curriculum development and networking for twenty teachers during the summer. The program is of four weeks duration and held at Argonne National Laboratory; and (3) NEWTON, The Science Teachers Bulletin Board, which offers a place where teachers and students can discuss education and ask questions of practicing scientists. The bulletin board is at www.newton.dep.anl.gov. Website for all three programs: www.dep.anl.gov. See section *Science, Technology and Education - Precollege Programs*. 133

U.S. DEPARTMENT OF ENERGY—BONNEVILLE POWER ADMINISTRATION (BPA)

Community Education Program-DR-7
P.O. Box 3621
Portland, OR 97208-3621
(503) 230-5341
Fax: (503) 230-4576
E-Mail: clbenson@bpa.gov
Web: <http://www.bpa.gov/corporate/education/>

Bonneville Power Administration is both an electric utility and a Federal agency within DOE. Established in 1937, BPA markets electric power from Federal dams and other energy resources in the Pacific Northwest. BPA employs approximately 3,100 persons in Idaho, Montana, Oregon, and Washington. The majority of the agency's work is in the Portland-Vancouver metropolitan area headquarters and control center. BPA works with several business, school, and government agency partnerships. Many employees volunteer each year for various programs.

Participates in a variety of education programs for K-12 **in the BPA four-State service area**. Programs include science competitions, mentoring and tutoring, environmental education, summer science camps, worksite visits, and others. Educational materials designed for K through 12th grade on the topics of electricity, energy efficiency/conservation, and fish and wildlife are loaned or given free of charge to teachers in BPA's service territory (Oregon, Washington, Idaho, and Western Montana). Educational resources include curricula, hands-on activities, storybooks, posters, and videotapes. The following link is to the BPA teachers' resources: www.bpa.gov/Corporate/KR/ed/page6.htm. 134

U.S. DEPARTMENT OF ENERGY—CARBON DIOXIDE INFORMATION ANALYSIS CENTER (CDIAC)

MS-6335, Building 1509
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6335
(865) 574-0390
Fax: (865) 574-2232
E-Mail: cdiac@ornl.gov
Web: <http://cdiac.ornl.gov/>

A DOE-funded program that provides information support to the international research, policy, and education communities for evaluation of issues related to climate change.

Provides data and information materials that would be of value to users concerned with the greenhouse effect and climate change. Data and information materials suitable for middle and high school students include, but are not limited to, the newsletter, *CDIAC Communications Virtual Newsletter* (http://cdiac.ornl.gov/newsletr/virtual/virtual_cdiac.html), which describes CDIAC, DOE, and other initiatives in global change research; *Trends Online: A Compendium of Data on Global Change* (<http://cdiac.ornl.gov/trends/trends.htm>), a quick source of frequently requested data. CDIAC also offers a computer model on global energy - CO₂ emissions, *The IEA/ORAU Long-Term Global Energy CO₂ Model*, that is suitable for high school and college students. This computer model package utilizes variables to interactively produce CO₂ and CH₄ emission scenarios for 1975 through 2100. A complete listing of CDIAC data and informational products is available from the CDIAC website (http://cdiac.ornl.gov/pns/pns_main.html). 135

U.S. DEPARTMENT OF ENERGY—ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION CENTER (EERE IC)

P.O. Box 43165
Olympia, WA 98504-3165
(877) 337-3463
Fax: (360) 236-2023
Web: www.eere.energy.gov

A DOE-funded energy information service responding to public inquiries on the use of renewable energy and energy conservation.

The EERE Information Center provides general information on DOE's Energy Efficiency and Renewable Energy Program.

Information Center Staff direct the public to resources and publications available on the website at www.eere.energy.gov, which has easily accessible energy-related consumer information and an ordering catalog for publication requests. **136**

U.S. DEPARTMENT OF ENERGY—HYDROGEN PROGRAM

1000 Independence Avenue, SW
Washington, DC 20585
Phone: 202-586-1885
Fax: 202-586-9811
Email: christy.cooper@ee.doe.gov
www.hydrogen.energy.gov

The DOE Hydrogen Program supports the President's Hydrogen Fuel Initiative and seeks to advance the vision of a hydrogen economy. The program is working with the automotive and energy industries, universities, national laboratories, international partners, and others to overcome critical technical barriers to developing commercially-viable, emissions-free hydrogen fuel cell vehicles and the infrastructure needed to support their widespread use. It integrates hydrogen-related activities in the DOE Offices of Energy Efficiency and Renewable Energy; Fossil Energy; Nuclear Energy, Science, and Technology; and Science.

Available educational resources, which are most appropriate for middle school and high school students, include teacher background information, lesson plans, hands-on classroom activities, and an animation to show how fuel cells work. The program website also includes links to other hydrogen and fuel cell educational resources, as well as information about hydrogen and fuel cell programs at colleges and universities, for high school students interested in getting involved in the development of the hydrogen economy. **137**

U.S. DEPARTMENT OF ENERGY—KIDSZONE

Washington, DC 20585
1 (800) DIAL-DOE
Fax: (202) 586-4403
E-Mail: KidsZone@eia.doe.gov
Web: www.energy.gov/engine/content.do?BT_CODE=KIDS

The Department of Energy Web site (www.energy.gov) is a portal to the agency's substantial information holdings.

One of the popular features of DOE's Website is the KidsZone, a destination for young people interested in energy, science, and

technology. The KidsZone offers an array of kid-friendly features like games, quizzes, contests, and a history of the greatest events and people in energy, plus age-graded instructional materials for energy and science teachers. The DOE Website also provides general information organized by energy topic and by DOE offices and facilities, plus an expanded business resource section that lists employment, grant and contract opportunities, and other helpful information; a section for teachers and researchers to help them locate information about workforce development and other items of interest to the academic community; and a section to assist consumers in saving money, energy, time, and the environment. **138**

U.S. DEPARTMENT OF ENERGY—LOS ALAMOS NATIONAL LABORATORY

Science Education Program Office

P.O. Box 1663, MS M709

Los Alamos, NM 87545

(505) 667-8680

Fax: (505) 665-6871

E-Mail: angela_m@lanl.gov

Web: <http://education.lanl.gov/EPO/>

A DOE-funded national laboratory.

Los Alamos National Laboratory offers elementary- through university-level educational programs for students, teachers, and the public. They include teacher programs, student programs, internships, and postdoctoral appointments. Topics include: educational technology, curriculum and resources, public understanding of science, and diversity programs. Some programs are national in scope, while others are regional or local. Each of the programs is described on our website listed above.

Available products include: (1) *Science at Home*, a book of science experimental activities for elementary and middle school students and parents to complete together using commonly available materials. (The Billerica, MA 01862, phone (508) 667-8000, fax (508) 667-5706, toll free (800) 225-0248, the book was published in 1997 and its ISBN is 0-7609-0236-4); (2) *Hydrogen and the Materials of a Sustainable Energy Future*, a notebook of experiments and demonstrations for teachers that were presented at the National Educator's Workshop: UPDATE 96; (3) *Model Nets*, a National Study of Computer Networking in K-12 Education and *Model Nets Guide*, a guide to implementing networking technology in K-12 education; (4) the *Seventh Generation, Environment, Safety, and Health at Los Alamos National Laboratory: A Report to Our Communities*; and (5) *Fuel Cells — Green Power*. **139**

U.S. DEPARTMENT OF ENERGY—NATIONAL ENERGY INFORMATION CENTER (NEIC)

Energy Information Administration
1000 Independence Avenue, S.W., EI-30, Room 1E-238
Washington, DC 20585
(202) 586-8800
Fax: (202) 586-0727
E-Mail: infoctr@eia.doe.gov
Web: www.eia.doe.gov and www.eia.doe.gov/kids/

NEIC is the information dissemination service of DOE's Energy Information Administration, which is responsible for developing energy data, analyses, and forecasts that help enhance public understanding of energy issues.

Available free of charge is the *Energy INFOcard*, a quick reference providing the most recent annual domestic and international energy data; *Energy Education Resources: Kindergarten through 12th Grade*; a series of primers on topical energy subjects: propane prices, residential heating oil prices, residential natural gas prices, gasoline prices, greenhouse gases, global climate change, and the restructuring of the electric power industry; and a **free** mini CD-ROM business card. All products are available on EIA's website, which also features the EIA Kid's Page (www.eia.doe.gov/kids/); hundreds of links to other energy-related sites; an email subscription and notification service for EIA press releases; a series of energy watches, synopses, summaries, and briefs; an energy quiz; an energy calendar listing schedules for future EIA publications and other energy events; and EIA publications and databases covering the various energy sources. **140**

NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

P.O. Box 10940
Pittsburgh, PA 15236-0940
(412) 386-5034
Fax: (412) 386-4810
E-Mail: rjones@netl.doe.gov or mnowak@netl.doe.gov
Web: www.netl.doe.gov

P.O. Box 880
Morgantown, WV 26507-0880
(304) 285-4348
Fax: (304) 285-4403
E-Mail: jcyzic@netl.doe.gov
Web: www.netl.doe.gov

A Federal fossil energy research facility.

The National Energy Technology Laboratory (NETL) is one of the U.S. Department of Energy's major field organizations. NETL has two sites — one in Pittsburgh, PA, and one in Morgantown, WV. NETL provides science-related educational kits, videos, and resource materials to local elementary schools. Check the above website for ordering information. NETL sponsors the West Virginia Regional Science Bowl and the Southwestern Pennsylvania Regional Science Bowl. Approximately ten science teachers spend four weeks at NETL learning about its research programs. The teachers, in cooperation with the NETL staff, prepare lesson plans describing the research for use in science classes. NETL sponsors two-day multidisciplinary seminars covering energy and the environment. Check the above website for dates and registration. NETL scientists and engineers serve as math and science resource volunteers, teacher consultants, classroom lecturers, demonstrators, or research advisors to teachers and students. 141

U.S. DEPARTMENT OF ENERGY—NATIONAL RENEWABLE ENERGY LABORATORY (NREL)

Office of Education Programs
1617 Cole Boulevard, MS 1713
Golden, CO 80401
(303) 275-3010
Fax: (303) 275-3076
E-Mail: Cynthia_Howell@nrel.gov
Web: www.nrel.gov/education

NREL is a Department of Energy national laboratory that develops renewable energy and energy efficiency technologies and practices; advances related science and engineering; and transfers knowledge and innovations to address the nation's energy, security, and environmental goals.

NREL's Office of Education Programs develops and implements science programs that engage the young minds of our future leaders, scientists, and engineers encouraging all to use and develop renewable energy resources. In addition, NREL's undergraduate internship programs connect research to science and technology education, which inspires students to explore sustainable energy solutions to meet our future needs. NREL supports kindergarten through 12th grade science education and undergraduate research focusing on energy efficiency and renewable energy, including managing and supporting numerous local and national science programs for both students and teachers. Programs include an after school 4th grade science literacy program, middle school junior solar sprint/hydrogen fuel cell model car competition, middle and high

school science bowls, science teacher professional development, summer research programs for pre-service and practicing teachers, and assistance for students and teachers looking for information, project ideas, lessons, and reference materials on renewable energy and energy efficiency topics. **142**

U.S. DEPARTMENT OF ENERGY—NATIONAL RENEWABLE ENERGY LABORATORY—NATIONAL ALTERNATIVE FUELS & CLEAN CITIES HOTLINES

9300 Lee Highway

Fairfax, VA 22031

(800) 423-1DOE or (703) 934-3069

(800) CCITIES or (703) 934-3068

Fax: (703) 934-3183

E-Mail: hotline@afdc.nrel.gov or ccities@nrel.gov

Clean Cities Web: www.eere.energy.gov/cleancities/

Alternative Fuels Data Center Web: www.eere.energy.gov/afdc/

The National Alternative Fuels and Clean Cities Hotlines, sponsored by the Department of Energy (DOE), provide information about the DOE's Clean Cities Program (a voluntary and cooperative effort to promote alternative fuel vehicles), alternative fuel vehicles, advanced technology vehicles, alternative fuels, funding opportunities, regulatory requirements, refueling locations, emissions, idle reduction technology, and much more.

Provides implementation and technical information on DOE's Clean Cities Program, alternative fuel vehicles, and advanced technology vehicles. Helps communities convert to alternative fuel vehicles through coordination planning. Also provides general information about the Clean Cities Program and lists of involved cities and participants, as well as technical and regulatory information of use to Clean Cities, such as funding for alternative fuel vehicles and information about the Clean Air Act and Energy Policy Act. Remains in direct contact with the Clean Cities Program Directors, DOE regional offices, involved Clean Cities coalitions, and the National Renewable Energy Laboratory's Alternative Fuels Data Center.

Callers can order free publications to be sent by mail or e-mail. The hotlines are open between 9 a.m. and 6 p.m., Eastern standard time. The toll-free 800 numbers are available to callers in the U.S. only; direct numbers are provided for international callers. The hotlines can also be reached via e-mail at hotline@afdc.nrel.gov or ccities@nrel.gov. **143**

**U.S. DEPARTMENT OF ENERGY—OFFICE OF
CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

Las Vegas Yucca Mountain Information Center
4101B Meadows Lane
Las Vegas, NV 89107
(702) 295-1312
1 (800) 225-6972
Fax: (702) 295-5222
Web: www.ocrwm.doe.gov

The Office of Civilian Radioactive Waste Management (OCRWM) is a Federal program established to manage and dispose of the Nation's spent nuclear fuel and high-level radioactive waste.

Furnishes an online curriculum, "Science, Society, and America's Nuclear Waste," at www.ocrwm.doe.gov/pm/program_docs/curriculum.shtml. The four-unit curriculum is currently being updated. It is designed for use in grades 8 through 12. Also available online is general information, including fact sheets and brochures, on the Civilian Radioactive Waste Management Program and the Yucca Mountain Project.

To forward a question, use the "questions and remarks" page at www.ocrwm.doe.gov/contact/comments.shtml. **144**

**U.S. DEPARTMENT OF ENERGY—OFFICE OF ENERGY
EFFICIENCY & RENEWABLE ENERGY—REBUILD
AMERICA ENERGYSMART SCHOOLS**

241 West Washington Street (Distribution Center)
Nashville, NC 27856
Phone: (252) 459-4664
Fax: (252) 459-6997
E-Mail: rebuildorders@rebuild.org
Web: www.rebuild.gov

Rebuild America EnergySmart Schools, a program of the U.S. Department of Energy (DOE), works with all members of the schools community to provide information, support and technical assistance about energy efficiency and renewable energy. Rebuild America is a national network of over 685 partnerships that are dedicated to saving energy, improving building performance, reducing air pollution, and enhancing the quality of life through energy efficiency. Created by DOE in 1994, Rebuild America serves as a tool for community revitalization and job creation in many U.S. communities.

Rebuild America EnergySmart Schools is dedicated to improving learning and teaching environments through energy-efficient design and energy education. Several resources are available through the program for K through 12 school decision-makers, teachers, students, facility managers, and design professionals at no cost. The EnergySmart Schools *Get Smart About Energy* CD-Rom contains over 250 inquiry- and non-inquiry-based energy activities aligned with national and state science education standards. The CD-Rom is used in classrooms nationwide to increase student interest in energy efficiency and conservation in school and at home.

Also available through the program are the climate-specific *Energy Design Guidelines for High Performance Schools* and the *National Best Practices Manual for Building High Performance Schools*. The guidelines and manual provide information about on-site school design, daylighting and windows, energy-efficient building shells, lighting and electrical systems, mechanical and ventilation systems, renewable energy systems, water conservation, recycling systems and waste management, transportation and resource-efficient building products. 145

U.S. DEPARTMENT OF ENERGY—OFFICE OF NUCLEAR ENERGY, SCIENCE AND TECHNOLOGY

Nuclear Power Systems, NE-30

19901 Germantown Road

Germantown, MD 20874

(301) 903-1536

Fax: (301) 903- 0180

E-Mail: Nancy.Hebron-Isreal@ nuclear.energy.gov

Web: <http://nuclear.gov>

Public Information Office for the Office of Nuclear Energy, Science and Technology. Responds to public inquiries about the commercial nuclear energy industry and DOE's nuclear research and development programs.

Offers energy educational material—including historical and current factual data—on nuclear energy. Pamphlets discuss such issues as the nuclear fuel cycle and civilian uses of nuclear energy. Publications include *The History of Nuclear Energy, Atoms to Electricity, The Harnessed Atom*—both a student and teacher version for grades 7 through 9—and several others. Also provides an educational videotape on nuclear power. All publications are free. 146

U.S. DEPARTMENT OF ENERGY—OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION (OSTI)

P.O. Box 62

Oak Ridge, TN 37831

(865) 576-8401

Fax: (865) 576-5728

Web: www.osti.gov

OSTI, a component of the DOE Office of Science, has been serving the nation by sharing science information since 1947. OSTI's mission is to advance science and sustain technological creativity by making R&D findings available and useful to DOE researchers and the American people. OSTI provides access to energy, science, and technology information through publicly available web-based systems, with supporting tools and technologies to enable information search, retrieval and re-use.

In April 2004, OSTI introduced *ScienceLab* (www.osti.gov/sciencelab), an online resource for students, teachers, and the public, at the National Science Teachers Association (NSTA) National Convention in Atlanta. *ScienceLab* features education resources from the DOE national labs in an effort to enhance student/teacher interest and involvement in science and technology, and to foster strong and lasting relationships between our nation's educational system and its national laboratories.

OSTI also hosts the FirstGov science portal, *Science.gov* (www.science.gov), in partnership with 17 organizations within 12 Federal science agencies. *Science.gov* is a gateway to over 1,700 websites and offers deep web searching of 30 databases containing R&D information.

OSTI's entire line of electronic products may be accessed through its home page at www.osti.gov, where users may search multiple databases with one query. Included are the, *Energy Citation Database* (www.osti.gov/energycitations), offering over 2 million bibliographic records of DOE scientific and technical information from 1948 to the present, with links to full text when available; *Information Bridge* (www.osti.gov/bridge), providing access to over 90,000 fully searchable, full-text technical reports documenting the results of DOE-sponsored research; *E-Print Network: Research Communications for Scientists and Engineers* (www.osti.gov/eprints), providing single query searching of over 590,000 manuscripts, scholarly papers, and other scientific e-prints on more than 17,000 websites, as well as a deep web search across 39 major e-print databases; *DOE R&D Project Summaries* (www.osti.gov/rnd), containing information on more than 31,000

active DOE-sponsored research projects; *EnergyFiles* (www.osti.gov/EnergyFiles), the Energy Science and Technology Virtual Library, providing single-query access to over 500 databases and websites containing information and resources pertaining to science and technology of interest to DOE, with an emphasis on the physical sciences. **147**

U.S. DEPARTMENT OF ENERGY—PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL)

Science & Engineering Education (S.E.E.)
P.O. Box 999, Mail Stop K9-83
Richland, WA 99352
(509) 375-2800
Fax: (509) 375-2576
Web: <http://science-ed.pnl.gov/index.stm>

A DOE-funded, multi-program national laboratory, Pacific Northwest National Laboratory (PNNL) puts science and technology to work to solve energy and environmental problems. PNNL focuses on research and development related to waste management, environmental restoration, global environmental change, energy, and national security.

Offers a variety of university and science programs that integrate research and education and support science education reform.

Our education partnerships connect the human and technical resources of the Laboratory with students and teachers in elementary, middle, and high schools; technical/community colleges; and students and faculty at the university undergraduate and graduate levels. Provides opportunities for students and faculty to:

- participate in hands-on science and technology research as it is conducted in a research laboratory;
- participate in projects that investigate scientific and technological challenges; update technical skills and understanding, as well as renew enthusiasm for chosen scientific or engineering research; and
- work with Laboratory scientists and engineers in an interdisciplinary team environment; and use state-of-the-art equipment not commonly found in most schools or colleges/universities. **148**

**U.S. DEPARTMENT OF ENERGY—WESTERN AREA
POWER ADMINISTRATION (WAPA)**

P.O. Box 281213
Lakewood, CO 80228
(720) 962-7423
Fax: (720) 962-7427
E-Mail: manion@wapa.gov
Web: www.es.wapa.gov

A DOE power marketing administration encompassing all or parts of 15 western states.

Provides contact points with WAPA's customers regarding on-going energy educational efforts on conservation and renewable energy for students from kindergarten through grade 12. For information, call Randy Manion, Manager, Renewable Resource Program, (720) 962-7423 or e-mail manion@wapa.gov. **149**

**U.S. DEPARTMENT OF THE INTERIOR—BUREAU OF
LAND MANAGEMENT (BLM)**

1849 C Street, N.W.
Washington, DC 20240
(202) 452-5078 (Environmental Education)
Fax: (202) 452-5199
Web: www.blm.gov/

An agency responsible for managing over 261 million surface acres, and 700 million acres of sub-surface mineral estate. BLM's multiple-use mission is to sustain the health, diversity, and productivity of the public lands. The agency manages recreation, wildlife habitat, cultural and historic sites, scenic and wilderness areas, wild horse and burros, livestock grazing, timber harvesting, and energy and mineral development.

Offers a variety of educational energy-related programs and materials. Visit the website for programs available in your area, as well as educational products and presentations. **150**

U.S. DEPARTMENT OF THE INTERIOR—MINERALS MANAGEMENT SERVICE (MMS)

Office of Public Affairs
1849 C Street, N.W.
Washington, DC 20240
(202) 208-3985
Fax: (202) 208-3918
Web: www.mms.gov/mmskids/

The MMS, part of the U.S. Department of the Interior, oversees 1.76 billion acres of the Outer Continental Shelf, managing offshore energy and minerals while protecting the human, marine, and coastal environments through advanced science and technology research. The OCS provides 30 percent of oil and 23 percent of natural gas produced domestically, and sand used for coastal restoration. MMS collects, accounts for, and disburses mineral revenues from Federal and American Indian lands, with Fiscal Year 2004 disbursements of approximately \$8 billion and more than \$143 billion since 1982. The Land and Water Conservation Fund, which pays for cooperative conservation, grants to states, and federal land acquisition, gets nearly \$1 billion a year.

Provides K-12 educational materials related to energy, minerals, and the environment on America's offshore public lands. Materials based on MMS science and research in geosciences; physical oceanography; engineering; marine biology; deep sea ecosystems; marine archeology; and social sciences. Materials include *Ocean Energy* resource and experiment booklet; *Watts It To You?* role-play on consumption, conservation, renewable and nonrenewable energy sources; science-based educational posters and teacher companions; curricula based on real scientific application; inquiry-based classroom activities to promote critical thinking; and fun coloring activity pages. Most material is free upon request and/or available from the MMS Kids Page at www.mms.gov/mmskids. 151

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

Headquarters Library, 3404T
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460
(202) 566-0556
Fax: (202) 566-0562
E-Mail: public-access@epamail.epa.gov
Web: www.epa.gov

The Headquarters Library provides research assistance to EPA staff.

A limited amount of reference assistance is provided to the public about environmental issues and EPA programs. Members of the public are encouraged to submit their requests via e-mail to *public-access@epa.gov*. **152**

U.S. GENERAL SERVICES ADMINISTRATION— FEDERAL CITIZEN INFORMATION CENTER (FCIC)

1800 F Street, N.W., G 142
Washington, DC 20405
1 (800) fed-info
Fax: (202) 501-4281
Web: www.pueblo.gsa.gov

Helps Federal agencies develop, promote, and distribute consumer information to the public through the Consumer Information Catalog and website.

The Federal Citizen Information Center offers the free quarterly *Consumer Information Catalog*, which contains listings of over 200 free and low-cost Federal consumer publications on topics such as health, energy conservation, Federal benefits, money management, housing, employment, small business, education, food and nutrition, and more. A free copy of the catalog is available by writing to Free Catalog, Pueblo, CO 81009. Bulk copies are available to schools and nonprofit groups able to distribute ten or more copies. On the above award-winning website, you can read, print out, or save the current *Catalog* and the full text of all the publications listed in it. You can also find great information on a wide range of subjects you are interested in. Find out about the latest product recalls and scams on the Scams and Recalls pages. Additional features include updates of consumer news and notes from various Federal agencies, and a calendar of consumer-related events. 2005 Consumer action handbook is now available.

The *Handbook* offers tips on topics such as buying and leasing cars, protecting your privacy and yourself from fraud, and shopping from home. Also includes a sample complaint form that you can use as a guide for your own letter, fax, or e-mail. The *Handbook* offers thousands of names, addresses, phone numbers, and e-mail addresses for Better Business Bureaus, corporate consumer contacts, and State, county, and city government consumer protection offices. You can access the *Handbook* at <http://ConsumerAction.gov> and use the links provided to register your complaint directly. In addition, FCIC offers *Lista de publicaciones Federales en español Para El Consumidor*, which lists 250 free Spanish publications available from various Federal agencies. **153**

VIDEODISCOVERY, INC.

920 N. 34th Street, Suite 300
Seattle, WA 98103
1 (800) 548-3472
(206) 285-5400
Fax: (206) 285-9245
E-Mail: info@videodiscovery.com
Web: www.videodiscovery.com

Videodiscovery, a leading publisher of educational multimedia products for the home and school markets (K-12 and college), was founded in 1983 by D. Joseph Clark from a grant issued by the U.S. Department of Education for development of an educational software product on biology. The Bio Sci laserdisc was the Company's first product.

Over the past 20 years, the company has become a nationally recognized developer and multimedia publisher, receiving numerous awards and media recognition throughout its history. The company's content-rich educational products are for the school and home-consumer markets with a product line that now includes over 25 laserdiscs and 45 CD-ROMs, most of which are part of the newly released Videodiscovery Digital Library.

The company has earned a reputation with administrators, teachers, and students for producing high-impact educational products designed for ease of use including science and math problem-solving mysteries, science in real-life episodes, and multimedia databases. The programs are built on the premise that learning is fun and that, while content will always change and grow, the fundamental skills of obtaining information, thinking critically, and making decisions will serve for a lifetime.

All of the materials are curriculum-based and represent four interrelated product suites (Forums, Sleuths®, Computer Performance Based Assessment, and the Digital Library), all of which facilitate development in Critical Reasoning and Inquiry in Solving Problems (CRISP™). **154**

WATER ENVIRONMENT FEDERATION (WEF)

601 Wythe Street
Alexandria, VA 22314-1994
1 (800) 666-0206
(703) 684-2400
Fax: (703) 684-2492
E-Mail: PublicEducation@wef.org
Web: www.wef.org

Founded in 1928, the Water Environment Federation is a not-for-profit technical and educational organization with members from varied disciplines who work toward the WEF vision of preservation and enhancement of the global water environment. The WEF network includes more than 100,000 water quality professionals from 77 member associations in 31 countries.

Facilitates the U.S. Stockholm Junior Water Prize, regional, state and national awards for high school, water related science research; organizes WEF Teach, a full day teacher workshop on water; and publishes *The Water Sourcebook*, with over 60 hands-on classroom activities; many of the water quality experts act as classroom resources through the WEF Adopt-A-School program. Local members choose to adopt schools by providing guest speakers, presentations, and tours of water treatment plants, plus videos and other special resources. Visit www.wef.org for more information. **155**

WATT WATCHERS

University of Texas at El Paso
P.O. Box 68660
El Paso, TX 79968
Toll Free: 1 (888) USWATTS
Fax: (915) 747-5317
E-Mail: watts@utep.edu
Web: <http://wattwatchers.utep.edu>

Watt Watchers is a FREE energy efficiency program for schools. The program is designed for kindergarten through grade 12 classrooms, and it is so simple! Students patrol the halls of the schools reducing energy waste by turning off lights and leaving tickets for those who leave their lights on while no one is in the room. By doing this, a school could save \$50 per classroom. That's right, it costs \$50 per year to light an empty classroom for two hours each school day.

Watt Watchers is available throughout the United States. In Texas, Watt Watchers is sponsored by the Texas State Energy

Conservation Office/Comptroller of Public Accounts. Watt Watchers provides schools across the United States with free energy conservation materials. We assist schools in lowering their utility bills by getting everyone involved in the program. Students patrol for lights on in unoccupied classrooms and teachers use our curriculum supplement to teach the students how to conserve energy and the importance of conservation efforts. Through Watt Watchers, administrators are given information on how to implement the Watt Watchers program district wide and free energy saving programs like *Sleep is Good*, the EPA's Monitor Power Management program. **156**

WAVERLY LIGHT AND POWER

1002 Adams Parkway
P.O. Box 329
Waverly, IA 50677
(319) 352-6251
Fax: (319) 352-6254
Web: www.waverlyia.com

A municipal utility serving electric needs of the community.

Provides educational services free to educators **within its service territory**. Services include generating plant tours, classroom presentations, and purchased reference materials for kindergarten through grade 12. **157**

WESTINGHOUSE ELECTRIC COMPANY

Employee Communications and Community Relations
P.O. Box 355, Bay 575
Pittsburgh, PA 15230-0355
(412) 374-6803
Fax: (412) 374-3272
E-Mail: kendrolm@westinghouse.com
Web: www.westinghousenuclear.com

A company dedicated to providing high-quality products, services, technology, systems and management in nuclear energy.

Provides energy-related materials to all who are interested, especially to teachers and to students who will make our energy decisions in the future. Materials available are: a simulated uranium fuel pellet; *Electricity from Nuclear Energy*; *Nuclear Energy Glossary*; *Questions Kids Ask About Energy*, *Radiation* booklets; and Component Illustrations (color prints). One copy of each booklet is available free of charge, however, there is a minimal fee for

larger quantities. For more information, please contact Westinghouse Electric Company Employee Communications and Community Relations. **158**

WISCONSIN PUBLIC SERVICE CORP. (WPSC)

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
(920) 433-1002
Fax: (920) 433-5741
E-Mail: kpalmer@wpsr.com
Web: www.wpsr.com

*Provides electricity, natural gas, and energy products to more than **499,000 customers** in an 11,000 square-mile area of Northeast Wisconsin and Upper Michigan. In addition to our corporate headquarters in Green Bay, we operate fossil, and hydroelectric generating plants and have 19 customer centers throughout our service territory.*

Provides a wide array of FREE energy-related presentations, publications, and web links for kindergarten through grade 12 educators **in the WPSC service area**. The materials emphasize electric and gas safety, energy management, protecting the environment, and renewable energy. Some of the special features include teacher and student tours, scholarship information, career exploration opportunities, energy fairs, speaker's bureau, teacher workshops, and electric car demonstrations. Contact WPSC for a complete list of educational offerings. Please visit our website at www.wpsr.com. **159**

WOMEN IN MINING EDUCATION FOUNDATION (WIMEF)

P.O. Box 260246
Lakewood, CO 80226-0246
(303) 298-1535 (message only)
E-Mail: wimef@womeninmining.org
Web: www.womeninmining.org

A nonprofit organization dedicated to educating students, teachers, and the general public about the importance of minerals.

WIMEF's mission is accomplished through the development and distribution of hands-on classroom activities, games, and information, as well as hosting training workshops for teachers.

Distribution is accomplished through booths at various conventions and meetings, direct mailings, the Internet, and workshops. A list of workshops can be found on our website. Many links to other earth science sites are available. Teachers who do not have Internet access can request free educational packets from the Women in Mining Education Foundation by sending their requests on school letterhead, indicating the grade(s) taught. **160**

XCEL ENERGY

Community Affairs

800 Nicollet Mall - 29

Minneapolis, MN 55402

(651) 748-3329 Electric Safety Demonstrations

(612) 215-4621 Energy Safety Calendars

(800) 880-8463 Nuclear Energy Speakers

(303) 308-6111 Renewables and Wind Energy Speakers

(303) 671-3806 Classroom Connection

Web: www.xcelenergy.com

Xcel Energy, Minneapolis (formerly Northern States Power Company and New Century Energy), is a major combination electricity and natural gas company in the United States, operating in 10 states - Colorado, Kansas, Michigan, Minnesota, New Mexico, North Dakota, Oklahoma, South Dakota, Texas and Wisconsin.

Xcel Energy provides FREE online energy education resources for grades 3–6. Visit www.xcelenergy.com and search for ‘education initiatives’. Energy Classroom (www.energyclassroom.com) includes games, activities and experiments dealing with power sources, the environment and energy conservation. Other offerings include the Energy Safety Calendar and art contest and the Classroom Connection program for grades K-12 (available to educators in CO, TX, KS, NM, OK). **161**

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