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**ENERGY EDUCATION RESOURCES:
KINDERGARTEN THROUGH 12TH GRADE**

September 1999

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

This report is available on the Web at:
<http://www.eia.doe.gov/bookshelf/eer/kiddietoc.html>
or
<ftp://ftp.eia.doe.gov/pub/pdf/other.docs/054699.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.

Paula Altman of NEIC updates and compiles *Energy Education Resources* once a year. To include a new entry, contact NEIC at the following address:

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Copies of this publication are available free of charge from NEIC.

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Air & Waste Management Association (A&WMA)

One Gateway Center, Third Floor
Pittsburgh, PA 15222
(412) 232-3444
Fax: (412) 232-3450
E-Mail: info@awma.org
Web: <http://www.awma.org>

Founded in 1907, A&WMA is a nonprofit, technical, and educational organization with over 12,000 members in 69 countries. This worldwide network represents many disciplines: physical and social sciences, health, engineering, law and management. It serves its members and the public by promoting environmental responsibility; provides technical and managerial leadership in the areas of air pollution control, environmental management, and waste processing and control.

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 (ERG's)* on air quality and nonpoint source pollution prevention, which focuses on water quality and runoffs. The *ERG's* 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. **1**

Alliance to Save Energy

1200 18th Street, N.W., Suite 900
Washington, DC 20036
(202) 530-2206
Fax: (202) 331-9588
E-Mail: info@ase.org
Web: <http://www.ase.org>

A nonprofit coalition of business, government, environmental, and consumer leaders, who promote the efficient and clean use of energy worldwide to benefit consumers, the environment, the economy, and national security. The Alliance was founded in 1977 by Senators Charles H. Percy (R-IL) and Hubert H. Humphrey (D-MN).

The Alliance's Green Schools Program is a comprehensive energy savings program for schools that incorporate 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. The Green Schools Program brochure, select instructional materials, program contact information and more are available online at: <http://www.ase.org/greenschools>.

Free single copies of the *PowerSmart: Easy Tips to Save Money and the Planet*, consumer booklet of strategies on saving energy at home, can be obtained by writing the Consumer Information Center, Dept. 611F, Pueblo, CO 81009 or by calling toll free 1-888-878-3256 and asking for item 611F. 2

The Aluminum Association, Inc.

900 19th Street, N.W.
Washington, DC 20006-2168
(202) 862-5100
Fax: (202) 862-5164
Web: <http://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. Available free of charge is a brochure entitled *Aluminum Recycles*. Free catalogs are also available. 3

American Association for Vocational Instructional Materials

220 Smithonia Road
Winterville, GA 30683
1-(800) 228-4689
(706) 742-5355
Fax: (706) 742-7005
E-Mail: seabaugh@msn.com
Web: <http://www.aavim.com>

A nonprofit developer, publisher, and distributor of materials for vocational education.

Provides vocational instructional materials on electricity and electrical energy. Included are publications, computer software, and videos for reasonable fees. A free catalog is also available upon request. Publications available include *Understanding Electricity*; *Electrical Wiring*; *How Electric Motors Start and Run*; *Fuels and Lubricants*; *Electric Motors*; and *Electrical Controls*. 4

American Chemical Society

1155 16th Street, N.W.
Washington, DC 20036
(202) 872-4590
Fax: (202) 833-7732
E-Mail: m_tinnesand@acs.org
Web: <http://www.chemcenter.org>

The world's largest scientific society, with a membership of nearly 150,000 chemists and chemical engineers.

Publishes educational materials for use in grades 4 through 12. *WonderScience* is an exciting monthly hands-on science activities magazine for elementary school students (back issues are available); *ChemMatters*, an award-winning magazine for high school students, relates chemistry to everyday life (published quarterly, back issues are available); and *ChemCom*, also for high school students, a chemistry textbook that combines an emphasis on the role of chemistry in everyone's life with basic chemical knowledge. All three products deal with such energy-related topics as electricity, recycling, nuclear energy, and the environment. A free *Teaching Resources Catalog* is available upon request. **5**

American Coal Foundation

1130 17th Street, N.W., Suite 220
Washington, DC 20036-4604
(202) 466-8630
Fax: (202) 466-8632
E-Mail: mhornig@eni.net
Web: <http://www.ket.org/Trips/Coal/ACF.html>
<http://www.nma.org/edsources.html>

A nonprofit educational organization supported by a coalition of coal producers, electric utilities, railroads, mining equipment manufacturers and suppliers and organized labor.

Provides materials and a video, *Coal Today*, on the modern coal industry, highlighting coal's importance to the generation of electricity. Teacher packets, which include hands-on classroom activities contain many materials that may be reproduced free of charge. Also available free of charge is a coal kit containing samples of the four different types of coal along with a brief description of their formation, use and properties. **6**

American Council for an Energy-Efficient Economy (ACEEE)

1001 Connecticut Avenue, N.W., #801
Washington, DC 20036
(202) 429-8873
Fax: (202) 429-2248
E-Mail: aceee@ix.netcom.com
Web: <http://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, efficiency, and 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. In addition, the *Consumer Guide to Home Energy Savings* is a popular illustrated handbook for consumers, and is a suitable teaching resource for grades 8 through 12. The *Green Guide to Cars and Trucks*, updated annually, is a first-of-its-kind consumer 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

Corporate Communications Programs
1 Riverside Plaza
Columbus, OH 43215
(614) 223-1653
Fax: (614) 223-1682
E-Mail: blschumann@aep.com
Web: <http://www.aep.com>

An investor-owned utility providing energy to 3 million customers in Indiana, Kentucky, Michigan, Ohio, Tennessee, Virginia and West Virginia.

Provides free educational services to kindergarten through grade 12 educators **in the American Electric Power service area**. Services include video tapes, computer software, publications and activity booklets for students. Resources for teachers, including educator workshops, are also available. Internet resources including "The Electric Universe," for students, teachers and parents, and "Solar Friends," featuring graphs of actual solar power generation and usage at participating schools, can be found at the Web site listed above. **8**

American Forest Foundation*Project Learning Tree*

1111 19th Street, N.W., Suite 780

Washington, DC 20036

(202) 463-2462

Fax: (202) 463-2461

E-Mail: info@plt.orgWeb: <http://www.plt.org>

Develops, funds, and administers 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.

PLT is co-sponsored by the American Forest Foundation and the Council for Environmental Education. PLT's newly revised curriculum guide, *Project Learning Tree: Environmental Education Pre-kindergarten through Grade 8 Activity Guide*, focuses on the total environment: land, air, and water. It is local, national, and global in scope. The new curriculum underscores PLT's primary goal -- to help children learn how to think about complex environmental issues, not what to think about the environment. The curriculum remains easily adaptable to many settings from the classroom to youth organizations, museums, nature centers, and Scout troops. Nearly 100 activities are offered in a storyline technique covering the themes of diversity, interrelationships, systems, structure and scale, and patterns of change. Central to the new curriculum is an emphasis on constructivist learning theory, whole language teaching strategies, and correlations to national education standards. Background information, authentic assessment opportunities, an extensive bibliography, and a cross reference index are also included. A new curriculum made up of individual thematic modules, for use in grades 9 through 12, is also available. PLT curricular materials are available through local workshops. Contact PLT for the name of the program coordinator in your State. 9

American Geological Institute (AGI)

4220 King Street

Alexandria, VA 22302-1502

(703) 379-2480

Fax: (703) 379-7563

E-Mail: ehr@agiweb.orgWeb: <http://www.agiweb.org>

Established in 1948, the American Geological Institute (AGI) is a nonprofit federation of 34 member organizations representing more than 100,000 geoscientists.

AGI's goals are to advance and promote the geosciences through improved public information, expanded professional services to the geoscience community, and increased earth science educational programs at the college and precollege levels.

AGI distributes information on earth science education through several mechanisms. This includes publications such as high school and middle school based curriculum (in production), a monthly magazine entitled *Geotimes*, brochures and outreach programs such as workshops and presentations. *Careers in the Geosciences* (1-10 copies) is one of the free brochures available. The Earth Science Education Resource Directory provides information on earth science educational materials that are available from nonprofit organizations. The directory is available electronically at <http://www.agiweb.org/ehr/resourcedirectory.html>. The directory is also available in hard copy from AGI Publications. AGI sponsors an Earth Science Week each year during the second full week of October. For information about Earth Science Week packets, see the AGI Web page or contact AGI. AGI publications are available on a secure Web site at: <http://www.agiweb.org/pubs/>. **10**

American Nuclear Society

Outreach Department
555 North Kensington Avenue
LaGrange Park, IL 60526
(708) 579-8251
Fax: (708) 352-0499
E-Mail: outreach@ans.org
Web: <http://www.ans.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*, *Personal Radiation Dose Chart*, and a simulated nuclear fuel pellet. Science and social studies curricula materials for use in kindergarten through grade 12 may be borrowed or purchased. A free catalog 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

Public Relations Department
1220 L Street, N.W.
Washington, DC 20005
(202) 682-8118
Web: <http://www.api.org>

A national trade association that encompasses all branches of the petroleum industry.

Supplies educational materials on the petroleum industry to teachers at no charge. Available materials include a video for middle school students that illustrates with pop music and dance the often invisible role that petroleum products play in our lives. Entitled “Fuel-Less, You Can’t Be Cool Without Fuel,” is also being distributed by the National Science Teachers Association. One per classroom. *Running on Oil* is a booklet which includes an eight-page feature article on oil; a large colorful poster for classroom display; and classroom activities demonstrating the scientific properties and role of oil in modern life. One per classroom. Available in classroom sets of up to 35 is an oil barrel-shaped card entitled Facts About Oil, which contains oil industry facts including the number of people who work in the industry, used motor oil collection, gasoline taxes paid, and petroleum products and petrochemicals made from a barrel of crude oil. Also available is a brochure entitled *Facts About Natural Gas* and a new publication entitled *All About Petroleum*. **12**

American Plastics Council (APC)

1801 K Street, N.W., Suite 701L

Washington, DC 20006

1-(800) 2-HELP-90

(202) 974-5379

Fax: (202) 296-7119

Web: <http://www.plastics.org>

The American Plastics Council (APC) is the major national trade association representing the U.S. plastics industry on resource conservation issues. APC works on behalf of the overall plastics industry to enhance the integrity of plastics, focusing on resource management-related environmental issues. Its mission is to ensure that plastics are a preferred material in an environmentally conscious world.

APC, in conjunction with the National Middle Level Science Teachers Association, has created a unique hands-on kit, designed to help middle level science classes explore the world of plastics. Included in “Hands On Plastics: A Scientific Investigation Kit” are written background information, recycled plastic resin samples, and learning cycle lesson plans to teach your class about chemical structures, identification codes, and recycling. The kit is available for a nominal fee. Additional educational materials include *Plastics in Perspective*, a booklet that answers the most frequently asked questions about plastics in the environment, and an 11-minute video entitled “The Busy, Busy Planet.” The video addresses issues such as source reduction, energy efficiency and recycling, and illustrates the many ways plastics benefit our lives and our environment. Single copies of each of these materials are free to educators, and can be obtained by calling the information line or through the Web site listed above. **13**

American Public Power Association

2301 M Street, N.W., Suite 300
Washington, DC 20037
(202) 467-2900
Fax: (202) 467-2910
E-Mail: mrufe@appanet.org
Web: <http://www.appanet.org>

A service organization for not-for-profit community-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*. Offers two history books *Profile of Power* and *Season of Change*, an update covering mid-1996 to 1998. 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 the APPA DEED (Demonstration of Energy Efficient Developments) program. Publications and videos are offered for a nominal fee. A free catalog is available. **14**

American Solar Energy Society

2400 Central Avenue, Suite G-1
Boulder, CO 80301
(303) 443-3130
Fax: (303) 443-3212
E-Mail: ases@ases.org
Web: <http://www.ases.org/solar>

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

Offers sample copies of its magazine *Solar Today* and publication catalog. Has one science project book, *Elementary and Secondary Science Projects in Renewable Energy and Energy Efficiency*, available for a fee. **15**

American Water Works Association

6666 West Quincy Avenue
Denver, CO 80235
(303) 794-7711
Fax: (303) 347-0804
Web: <http://www.awwa.org>

An international, nonprofit, scientific, and educational organization of professionals associated with the public drinking water industry, including utilities, manufacturers, consultants, researchers.

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, computer software, videos, bookcovers, and novelty items. A free Youth Education Sample Packet and other educational materials may be ordered directly from the AWWA Bookstore at 1-800-926-7337. **16**

American Wind Energy Association

122 C Street, N.W., Suite 380

Washington, DC 20001

(202) 383-2500

Fax: (202) 383-2505

E-Mail: windmail@awea.orgWeb: <http://www.awea.org>

The American Wind Energy Association (AWEA) represents wind energy as a technology that is economically and technically viable today.

Offers an Educator's Packet on wind energy including: 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 Web site as well. **17**

Arizona Department of Commerce Energy Office

3800 N. Central, Suite 1200

Phoenix, AZ 85012

(602) 280-1402

Fax: (602) 280-1445

E-Mail: jima@ep.state.az.usWeb: <http://www.commerce.state.az.us/><http://azsolarcenter.com>

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

Provides the following materials and service for primary and secondary schools. Solar Education Packet for Teachers; *Bright Ideas* (single-topic publication covering energy and the environment, recycling, solar cooking, and photovoltaics); and the Solar Energy Institute (a week-long summer camp for high school students that explores various solar technologies). **18**

The Aseptic Packaging Council

P.O. Box 3794
Washington, DC 20007
1-(800) 277-8088
Web: <http://www.aseptic.org>

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

Offers free educational materials on recycling issues for teachers and students. *Waste Wise: Concepts in Waste Management*, a teacher's discussion guide, can be adapted for particular classes from kindergarten through grade 12. We also have available a poster, *What's New In Recycling*, which complements the teaching guide. A general information brochure may also be ordered. **19**

Baltimore Gas and Electric Company (BGE)

Educational Services
P.O. Box 1475
Baltimore, MD 21203-1475
(410) 234-7484
Fax: (410) 234-7471
E-Mail: lorraine.t.jackson@bge.com
Web: <http://www.bge.com>

An investor-owned utility serving Baltimore City and all, or parts 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, power plant tours, and classroom literature for students in kindergarten through grade 12. A free *Educational Resources* catalog is available upon request. **20**

BP Amoco

Community Relations
200 Public Square (10-L)
Cleveland, OH 44114-2375
(216) 586-3794
Fax: (216) 586-6957
E-Mail: DAVISVD@bp.com

The wholly owned U.S. subsidiary of one of the world's largest international petroleum and petrochemical groups.

Science Across America makes it possible for students to exchange their scientific work with others throughout the United States and around the world. The program includes eight teaching modules designed for students in grades 7 through 12. The units deal with those issues which are of international environmental interest (e.g., energy and drinking water quality) and are common to science courses internationally. There is a fee, which includes lifetime registration on a worldwide database of participating schools. For more information, write to the address above. *BP Statistical Review of World Energy*, a booklet containing information on world energy supplies and demand, includes data on oil, gas, coal, nuclear, and hydro in terms of reserves, production, and consumption for a 10-year period before the current year. Also available is *Facts*, BP's annual report on health, safety and the environment. These publications are free to teachers. Contact above address. Also available is the *BP Educational Resources Catalogue*, which offers a full range of school resource materials. Some of the items in the catalogue are available for a fee. **21**

Bronx Zoo/Wildlife Conservation Park

Education Department
2300 Southern Boulevard
Bronx, NY 10460
1-(800) 937-5131
Fax: (718) 733-4460
Web: <http://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 U.S. 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 rain forest 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. Teachers receive first-hand training in how to guide their students as the 4-foot-high Energy Pyramid becomes a classroom exhibit on energy. Through activities such as Photosynthesis Scramble and Conserving Energy: 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 Manager 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: <http://www.bullfrogfilms.com>

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

Provides educational films and videos on energy and energy-related issues. Titles include *Bill Loosely's Heat Pump*; *Decision: Energy for the Future*; *The Energy Bank*; *Energy Efficiency*; *Energy, Technology and Society*; *Harness the Wind*; *Living Under the Cloud: Chernobyl Today*; *Race for the Future*; *Solar Promise*; *Go*; *An Energy-Efficient Doghouse*; *Solar Energy Doghouse*; *City Lights*; *Rethink-Pollution Prevention Pays*; *Recycling With Worms*; *Planet Neighborhood*; *Water and the Human Spirit*; *It's Eco-Logic* and *Wake Up Freddy*, in the tradition of Bullfrog's classic *Toast*. 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) 654-4420
E-Mail: cecetec@energy.ca.gov
Web: <http://www.energy.ca.gov/education> (Energy Quest)
<http://www.energy.ca.gov> (Energy Commission main page)

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

Provides the following printed energy and environmental education material for kindergarten through grade 12 (more resources online): Compendium for Human Communities and Compendium for Energy Resources (curriculum evaluation); Universal House; Energy Shelter & the California Indian; Conserve and Renew; Let's Get Energized; Energy Patrol. *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; Ask Us (for energy questions); word games and links to other resources. *Devoured by the Dark* is a Goosebumps-like energy story exploring a travel-through-time adventure for children. The Energy Commission's main Web page is geared towards the adult and older student (grades 10 through 12) for energy information. **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.org
Web: <http://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 request free or low-cost items 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 of resources may be available for use in other States. Among lesson plans available, some have Spanish language worksheets. All lesson plans are correlated with California curriculum frameworks and undergo extensive field testing in the classroom and teacher and technical review. The Foundation encourages classroom integration of agriculture to increase the understanding of its vital role in our lives. Agriculture provides a theme which encourages hands-on activities to reinforce concepts in science/environment, mathematics, English/language arts, history/social science, health/nutrition, physical education and the visual and performing arts. Contact with the Foundation is a good starting point for teaching other agriculture-related groups that produce educational resources. Educational materials developed by industries and organizations related to agriculture are reviewed by the Foundation and listed in an annually updated Teacher Resource Guide. **25**

The Center for Energy and Economic Development (CEED)

1800 Diagonal Road, Suite 370
Alexandria, VA 22314
(703) 684-6292
Fax: (703) 684-6297
E-Mail: info@ceednet.org
Web: <http://www.ceednet.org>

A nonprofit organization dedicated to preserving coal's role as an economical, efficient, and environmentally compatible source of electricity.

Provides information related to low-cost, reliable, environmentally compatible electricity. Coal, America's most abundant domestic energy resource, is responsible for approximately 60 percent of the electricity generated in America. Coal-fired electricity generation brings benefit to Americans from all walks of life. CEED provides resource materials related to coal-fired electricity generation. Most CEED materials are available through the Web site listed above. **26**

Center for Renewable Energy and Sustainable Technology (CREST)

1200 18th Street, N.W., 9th Floor
Washington, DC 20036
(202) 530-2202
Fax: (202) 887-0497
E-Mail: info@crest.org
Web: <http://solstice.crest.org>

The Center for Renewable Energy and Sustainable Technology (CREST), a nonprofit organization dedicated to promoting renewable energy, energy efficiency and sustainable development using interactive multimedia Web sites and software.

CREST operates an online clearinghouse of renewable energy and energy efficiency information called SOLSTICE, which provides free electronic access to documents, images, directories, and other databases around the world. SOLSTICE can be accessed via File Transfer Protocol (ftp to "solstice.crest.org") and the World Wide Web ("http://solstice.crest.org"). CREST has published multimedia educational CD-ROMs about renewable energy, efficiency, and global climate change, including the *Sun's Joules* multimedia encyclopedia on renewable energy; School Energy Doctor Auditing software; the Greening of the White House CD-ROM; Spanish-English CD-ROM on Renewable Energy in Latin America. In addition, CREST teamed up with WETA, a Washington DC PBS station, to create the Green Home CD-ROM as a companion to the series "Planet Neighborhood." All titles are available in Mac or Windows versions, and can be ordered through the Web site or by calling 1-888-442-7378 or 202-530-2233. **27**

Channing L. Bete Publishing Co., Inc.

200 State Road
South Deerfield, MA 01373-0200
1-(800) 628-7733
Fax: 1-(800) 499-6464
E-Mail: custsvc@channing-bete.com
Web: <http://www.channing-bete.com>

A publishing firm specializing in Scriptographic Booklets. Most utilities provide them to schools in their service territories free of charge; however, the booklets are available from the publisher 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. "Experiment Kits" on Conservation, Energy, and Electricity, all for students in grades 5 and 6, are available. Each kit contains 35 student workbooks and one instructor's guide. Water, Electric and Energy Conservation stickers and growth charts are also available. Offers a 6th grade curriculum entitled "Water Week," which includes hydropower information. Contact your local utility for availability or call the above number. Provides educational services fulfillment for utilities. **28**

Charles Edison Fund

101 South Harrison Street
East Orange, NJ 07018
(973) 675-9000
Fax: (973) 675-3345

A charitable foundation providing science teachers with simple, basic, proven fun experimental booklets containing 73 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. **29**

The Chlorine Chemistry Council (CCC)

1300 Wilson Boulevard
Arlington, VA 22209
(202) 452-9465
Fax: (202) 296-7285
E-Mail: info@science-education.org
Web: <http://www.science-education.org>

The Chlorine Chemistry Council (CCC), part of the Chemical Manufacturers Association provides information to the public regarding chlorine and promotes the practice and understanding of responsible use for chlorine chemistry.

Making the connection between the periodic table and real life can be challenging, particularly for middle school students. CCC offers hands-on materials designed to introduce basic chemistry and the periodic table. By taking a look at one element -- chlorine -- teachers can help students understand the link between chemical "building blocks" and daily life without tackling the whole periodic table at once. The video, hand-outs, experiments, and lesson guides in the Building Block Chemistry Program were developed by teachers for teachers to help students explore their world. For **FREE** classroom materials and video, write to the address above. **30**

City Public Service (CPS)
Consumer Services Section
P.O. Box 1771
San Antonio, TX 78296-1771
(210) 353-2300
Fax: (210) 353-4327
E-Mail: pmbernal@cps-satx.com
Web: <http://www.citypublicservice.com>

A municipally owned natural gas and electric utility serving substantially all of Bexar County 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 video tape library, curriculum supplements, Electric Universe Web site, Energy Education Center and power plant tours. A free *School Safety & Energy Education Program Catalog* is available upon request. **31**

City Utilities of Springfield
301 E. Central
P.O. Box 551
Springfield, MO 65801-0551
(417) 831-8311
Fax: (417) 831-8454
E-Mail: ahall@cityutil.com

A municipal utility serving the metropolitan area of Springfield with electricity, natural gas, and water.

Provides educational services free to instructors **in areas served by City Utilities**. Offers tours to power plants and water treatment plants, classroom presentations, speakers' bureau, and purchased curriculum materials for students in kindergarten through grade 12. City Utilities also has special units, "The Planet Water" and "Are You Being Safety Conscious Around Electricity." Single copies are available to teachers outside City Utilities' service area. **32**

Cobblestone Publishing
30 Grove Street
Peterborough, NH 03458
1-(800) 821-0115
Fax: (603) 924-7380
E-Mail: custsvc@cobblestone.mv.com
Web: <http://www.cobblestonepub.com>

A publishing firm specializing in magazines for children and teaching resources.

Publishes educational materials for students in grades 5 through 8. Energy-related titles are: *Energy: Powering Our Nation*; *Recycling*; *Earth: A Global Spaceship*; *Planet Earth: Home Sweet Home*. Materials may be purchased from the publisher. Free catalogs are available upon request. **33**

The Consumer Aerosol Products Council

2000 L Street, N.W., Suite 300
Washington, DC 20036
(202) 263-0109
Fax: (202) 835-8879
Web: <http://www.nocfcs.org>

Supported by companies that manufacture and market aerosol products (CAPCO) 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 Outreach at 1-(800) 427-7228. **34**

Culver Company

316 Merrimac Street
Newburyport, MA 01950
1-(800) 4-CULVER
Fax: (978) 463-1715
E-Mail: order@culverco.com
Web: <http://www.culverco.com>

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

Produces booklets, 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. **35**

Denver Earth Science Project

Office of Special Programs & Continuing Education
Colorado School of Mines
Golden, CO 80401
1-(800) 245-1060 x3621 (in Colorado)
1-(800) 446-9488 x3621 (outside Colorado)
Fax: (303) 273-3314
E-Mail: jproud@mines.edu
Web: http://www.mines.edu/Outreach/Cont_Ed/desp.shtml

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, audio-visual materials, posters, oil samples, groundwater models, etc. Call to find out the location of the nearest training site. **36**

Disney Educational Productions

105 Terry Drive, Suite 120
Newtown, PA 18940
1-(800) 295-5010
Fax: (215) 579-8589
Web: <http://www.disney.go.com/educationalproductions>

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 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 *Pollution Solutions*, *Garbage and The Water Cycle*
- ! *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*

Programs are available for purchase or lease. Call the toll-free number to request a free catalog. 37

E2: Environment & Education

P.O. Box 20515
Boulder, CO 80308-3515
(303) 442-3339
Fax: (303) 442-6633
E-Mail: e2ee@enviroaction.org
Web: <http://www.enviroaction.org>

A nonprofit organization dedicated to helping young people develop an awareness of environmental challenges, and the understanding and skill to take informed and effective action.

Developed Environmental ACTION (Analyze, Consider Options, Take Action, In Our Neighborhoods). This is a relevant, supportive and clearly structured interdisciplinary environmental education curriculum for grades 6 through 12. The program offers six separate modules: Energy Conservation, Water Conservation, Waste Reduction, Chemicals: Choosing Wisely, Food Choices, and Habitats & Biodiversity. Each module provides instruction on how to investigate environmental issues while creating opportunities to practice action skills. The hands-on activities move students from awareness to choice into action. Students conduct an audit of current resource consumption and research alternative practices, services, and technologies. They conclude with a plan for change based on a cost benefit analysis. By having students use the school community as their laboratory, the school becomes a model of sustainable practices. E2 has also developed a General Resources Guide for educators. For a fee, E2 will provide teacher training workshops. 38

Earth Foundation

5151 Mitchelldale, Suite B-11
Houston, TX 77092
(713) 686-1205
Fax: (713) 686-6561
E-Mail: EarthFound@aol.com
Web: <http://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 \$4 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 10 or more acres receive a free follow-up video that shows students live footage of the area. Call 1-800-5MONKEY to receive your "Rescue the Rainforest Kit" and for more information about this project or the Coral Reef Rescue Campaign. **39**

East Ohio Gas

Educational Affairs Department
P.O. Box 5759
Cleveland, OH 44101-0759
(216) 736-6218
Fax: (216) 736-5323
Web: <http://www.cng.com/eog/fcover.htm>

A natural gas utility serving over one million customers in a 23-county area throughout northeast and southeast Ohio.

Promotes energy awareness in the community and emphasizes the importance of natural gas. Provides educational resources, free of charge, to primary school and secondary school educators **in the areas served by East Ohio Gas**. A free *Educational Resources & Awards Catalog* offers a variety of programs and materials. Topics include natural gas vehicles, natural gas safety, science fair planning, and parental resources. **40**

Edison Electric Institute (EEI)

Order and Billing
701 Pennsylvania Avenue, N.W.
Washington, DC 20004-2696
1-(800) 334-5453
(202) 508-5000
Fax: (301) 843-0159
Web: <http://www.eei.org>

An association of shareholder-owned electric utilities.

Suggests that you first contact your local electric utility. Many utilities have educational programs about energy and the environment for schools. EEI's publications catalog is free. Other publications are available for a fee. **41**

Educational Development Specialists

5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(562) 420-6814
Fax: (562) 420-1485
E-Mail: annateds@aol.com
Web: <http://edspecialists.com>

Energy and environmental education program developers and distributors.

Offers the Think Earth education program nationwide to sponsors who give the program to schools. This award-winning program interrelates air, land, water, and energy topics into a comprehensive environmental education school pack. It contains units for students in kindergarten through grade 6, plus a fully animated video. A free catalog is available on the program. **42**

Energy Source Education Council

Program Distribution Office
5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(562) 420-6814
Fax: (562) 420-1485
E-Mail: annateds@aol.com
Web: <http://edspecialists.com>

A nonprofit organization involved in developing and distributing quality energy educational programs.

Has an Energy Source Education Program that is financially supported by member organizations (mostly utilities) from the private sector. Material is sold to the utility companies who then distribute it at no charge to classrooms **in their service areas**. Material to others is available for a fee. A free catalog is available. **43**

Enterprise for Education, Inc.

1316 Third Street, Suite 103
 Santa Monica, CA 90401
 (310) 394-9864
 Fax: (310) 394-3539

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

Supplies a variety of 8 and 16-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:

- ! Environmental -- “Using Our Resources Wisely” (grades 2-4); “The Greenhouse Effect and Global Warming” (grades 6-12); and “Percentages Help an Environmental Engineer” (grades 6-8); “The Clean Air Challenge” (32 pages with video and science experiment kit, (grades 8-10)
- ! Conservation -- “Efficiency of Electric Appliances” (grades 6-10); “Climate and Comfort” (grades 6-12); and “Is Efficiency the Best Energy Source?” (grades 9-12)
- ! Nuclear Energy -- “Nuclear Reactor” (grades 8-12); “The Atom and Radiation” (grades 6-12); and “Nuclear Fuel Cycle” (grades 8-12)
- ! Fossil Fuel -- “Coal: The Once and Future King?” (grades 6-9); “Natural Gas” (grades 6-12); “Geology of Oil” (grades 6-12); and “Refining Oil” (grades 8-12)
- ! Electricity -- “Mouse House Surprise,” a 32-page Teacher BIG book and student little book (grades K-2); “Sam and Jody Save the Circus” (safety) (grades 2 and 3); “Paths for Electricity” (safety) (grades 3-5); “Energy Transformations” (grades 4-9); “Generating Electricity” (grades 5-9); “Sources of Electricity” (grades 5-9); “Demand for Electricity” (grades 6-9); “Working With Energy Graphs” (grades 6-12); “Measuring Helps an Electrician Wire an Apartment” (grades 4-6); “An Electrical Engineer Plans an Electrically Safe Outdoor Concert” (safety) (grades 5-9); “Electricity from Wind, Water & Sunlight” (grades 4-8), which includes a lab activity kit; and “Risk: Taking Chances, Making Choices” (grades 6-10)

When available, the above materials are free of charge from many electric utilities. Contact the education specialist at your local utility. Materials also may be purchased directly from the publisher. A catalog is available. **44**

Environmental Hazards Management Institute (EHMI)

10 Newmarket Road
P.O. Box 932
Durham, NH 03824
(603) 868-1496
Fax: (603) 868-1547
E-Mail: ehmiorg@aol.com
Web: <http://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. A free catalog is available. **45**

EV Media

1014 Broadway
Santa Monica, CA 90401
(310) 394-3980
Fax: (310) 394-3539

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 128-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. Contact your electric utility electric vehicle department for these materials, which are often offered at no cost to educators. **46**

Exxon Company, U.S.A.

Public Affairs
P.O. Box 2180
Houston, TX 77252-2180
(713) 656-8758
Fax: (713) 656-6267
Web: <http://www.exxon.com>

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

Offers a collection of publications about the oil industry. Also available is the 22-minute video, "Scientists and the Alaska Oil Spill;" and the video and lesson plan on artificial reefs, "Aquariums Without Walls." The materials are free, but quantities are limited. 47

Film and Bag Federation

Plastic Bag Information Clearinghouse
P.O. Box 2811
Pittsburgh, PA 15230
1-(800) 438-5856
Fax: (412) 471-9417
E-Mail: pbainfo@aol.com
Web: <http://www.plasticbag.com>

A consortium of the industry's leading manufacturers and suppliers of the Society of the Plastics Industry who work together on industry issues and focus on promoting the functional and environmental benefits of plastic bags and film products.

Provides educational resources for elementary and middle-school educators and information for consumers to increase public understanding of the facts related to plastic bags and the environment. "Don't Let a Good Thing Go to Waste" is an environmental education program for students in grades 2 through 5. Its interactive, interdisciplinary activities help students discover that they can make a difference in solving solid waste challenges by practicing the 3Rs: Reduce, Reuse and Recycle. The Earth Master 2000 activity poster helps elementary students learn the 3Rs. "An Ounce of Prevention" middle-school curriculum and its poster-lesson plan on the Life of a Hamburger comprise a complete resource for teaching the elements of waste generation and waste 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 check-out counter. These activities

help them realize the value of prevention when it comes to waste.

Consumers can obtain information on the environmental benefits of plastic in the *Life of a Plastic Bag* brochure and can also locate the nearest plastic bag recycling collection site by calling the above number. The above Web site provides information on plastic bags and the environmental 3Rs, as well as the lesson plans for teachers and student puzzle activities with an Earth Day message. All materials are free. **48**

Florida Energy Office

Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100
(850) 488-2475
Fax: (850) 488-7688
E-Mail: patricia.patrick@dca.state.fl.us
Web: <http://www.dca.state.fl.us>

The State's point of contact on all energy-related matters, issues, and programs.

Focuses on solar energy and conservation. *Renewable Energy Activities for Middle Grades*, lesson plans for students in grades 6 through 8, is available. *Solar and Energy Conservation Projects for Students* is available to elementary school teachers. Another publication, *Energy Research Projects Guide*, assists students in their selection of energy topics for science fair projects. Single copies are free of charge to **Florida teachers and students.** **49**

Florida Power & Light Company

Energy Encounter
6501 South Ocean Drive
Jensen Beach, FL 34957
1-(877) FPL-4FUN (toll free)
(561) 468-4111
Fax: (561) 467-7565
Web: <http://www.fpl.com/encounter>

A regulated investor-owned utility that serves more than 3 million customers in Florida.

Provides limited free energy educational resources **within the Florida Power & Light service area.** Sponsors an electrical safety poster contest for elementary and middle schools. Offers special environmental education presentations on manatees and sea turtles, and a series of environmental education pamphlets. Operates the Energy Encounter visitors' center at the St. Lucie Nuclear Power Plant

on Hutchinson Island. The center is open to the public and offers physical and environmental science presentations to school groups as well as teacher workshops for educators. Presentations meet the science objectives for Florida. Also offers environmental tours of the Barley Barber Swamp and Turtle Beach Nature Trail.

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Florida Solar Energy Center (FSEC)

1679 Clearlake Road
Cocoa, FL 32922-5703
(407) 638-1000
Fax: (407) 638-1010
Web: <http://fsec.ucf.edu>

The energy institute for the State University System, FSEC's mission is to conduct research on alternative energy technologies, ensure the quality of solar energy equipment, and educate people about their energy options.

Information on FSEC's research and educational programs is available at the above Web site.

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Foodservice & Packaging Institute, Inc.

1550 Wilson Boulevard, Suite 701
Arlington, VA 22209
(703) 527-7505
Fax: (703) 527-7512
E-Mail: fpi@fpi.org
Web: <http://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, and aluminum items. Foodservice & Packaging Institute, Inc. (FPI) supports the environmentally responsible manufacture, distribution, use, and disposal of foodservice disposables.

Offers *Foodservice Disposables: Facts and Fun*, a middle-school Environmental Science resource full of information and student activities. 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 Web site above.

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Frey Scientific

A Division of Beckley Cardy
100 Paragon Parkway
Mansfield, OH 44903
1-(800) 225-3739
Fax: 1-(888) 256-3739 or
(419) 589-1546
E-Mail: dgribben@freybg.com
Web: <http://www.BeckleyCardy.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 75 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.

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General Atomics Sciences Education Foundation

General Atomics
3550 General Atomics Court
San Diego, CA 92121-1194
(619) 455-3335
Fax: (619) 455-3379
E-Mail: pat.winter@gat.com
Web: <http://fusioned.gat.com>

A research and development center for high-technology systems.

Offers information to high school and middle school teachers and students regarding current U.S. and worldwide nuclear fusion research that is aimed at understanding fusion science and its role in providing an energy resource for tomorrow's needs. Available materials include a 20-minute video, "Fusion: Creating a Star on Earth" and a high school teachers guide and workbook. A full size color poster is also available. These items are available free, while supplies last. Requests for the teachers guide and poster must be sent on school letterhead. In addition, General Atomics will send out at no charge material explaining the operation and safety of high temperature gas-cooled reactors which are meltdown proof and convert about 50 percent of the fission energy to electricity. When large atoms are fissioned by neutrons, energy is released. Nuclear reactor plants use this energy to make steam or hot gas to drive turbines which drive generators to make electricity.

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Geothermal Education Office

664 Hilary Drive
Tiburon, CA 94920
1-(800) 866-4436
(415) 435-4574
Fax: (415) 435-7737
E-Mail: geo@marin.org
Web: <http://geothermal.marin.org>

A nonprofit educational organization serving teachers, students and the general public nationwide to increase awareness and understanding of geothermal energy.

Provides free booklets, posters, fact sheets, and selected geothermal industry publications (some in class sets). Available for a fee are high-school level and an elementary-school level videos with transcript and glossary; and a 90-page geothermal curriculum for grades 4 through 8. The curriculum, endorsed by the National Science Resources Center, covers the geology, history, and uses of geothermal energy, placed in the context of today's energy needs. Includes copy-ready student information pages; science experiments; math, language, arts, and social studies activities; a glossary; and other suggested resources. High school lesson plans and activity ideas coming soon! **55**

Global Action Plan

P.O. Box 428
Woodstock, NY 12498
(914) 679-4830
Fax: (914) 679-4834
E-Mail: info@journeyfortheplanet.org
Web: <http://www.journeyfortheplanet.org>

Global Action Plan, a nine-year old environmental education nonprofit organization, has developed a free, cutting-edge Internet-based program involving children, the environment, schools, and technology.

Journey for the Planet at the above Web site is, based on an award-winning program that has been carefully tested in hundreds of classrooms, in five countries, by over 5,000 children. The program energizes children aged 9 through 12 by helping them translate their generalized knowledge about the environment, and desire to make a difference, into something highly relevant, doable, and tangible – resource-efficient lifestyle practices. It is divided into five sections that help children first lower their environmental impact, then help others do the same. The five actions areas are: “Dumping on Garbage,” “Wasting Water is all Wet,” “Getting a Charge out of Saving Energy,” “Good Buys are Forever,” and “Watch Out Planet Here I Come.” Each action area has its own cartoon animal guide to lead the children. The United Nations Environment Programme (UNEP) awards an embroidered “Global Hero” patch and certificate to children who take a certain number of actions. **56**

GPU Energy

Community Initiatives Department
2800 Pottsville Pike
P.O. Box 16001
Reading, PA 19640-0001
(610) 921-6191
Fax: (610) 921-6571
E-Mail: tgilman@gpu.com
Web: <http://www.gpukids.com>

Headquartered in Reading, PA, GPU Energy serves 68 counties throughout Pennsylvania and New Jersey. GPU Energy is a subsidiary of GPU, Inc., an investor-owned electric utility based in Morristown, NJ.

GPU's interactive educational Web site -- www.gpukids.com-- provides free energy and electrical safety education resources for all grade levels. This site includes energy and conservation-related games, activities, experiments and downloadable modules as well as lesson plans on a variety of energy, electrical safety, conservation and environment-related topics. Also available to educators is the gpukids.com on line electronic educational resources catalog, featuring free publications on a wide-range of energy and electricity topics. (**Free publications are limited to schools in the GPU service territory.**) And, without having to buy a single stamp, visitors can send an electronic postcard to a friend or family member – wishing them a “Happy Birthday,” “Get Well,” or just to say “Hello!”

57

Hawaiian Electric Company, Inc.

Education & Consumer Affairs Division
900 Richards Street
Honolulu, HI 96813
(808) 543-7511
Fax: (808) 543-7412
Web: <http://hei.com>

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

Provides free teaching materials to educators **in the areas served by Hawaiian Electric and its subsidiaries Maui Electric Company and Hawaii Electric Light Company.** Services include classroom programs, career programs, resources for educators, certified workshops for educators, video, and classroom literature for kindergarten through grade 12. "Hawaii's Electric Century," an education module for Hawaiian history classes, is available for use in grades 4, 7, and 11.

58

Honolulu Clean Cities

Alternative Transportation Fuels Program
160 Ahui Street
Honolulu, HI 96813
(808) 587-3809
Fax: (808) 587-3820
E-Mail: mtome@dbedt.hawaii.gov
Web: <http://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 types of activities. The activities are appropriate for grades 4 through 6; the fact sheets are appropriate for grades 4 through 12. These activities and fact sheets are downloadable in the original Microsoft Word format from the Web site listed above. Permission is given to use and modify the fact sheets and activities for non-commercial uses.

59

Illinois Department of Commerce and Community Affairs

Office of Coal Development and Marketing
325 West Adams, Room 300
Springfield, IL 62704-1892
(217) 782-6370
Fax: (217) 785-2618
E-Mail: bantonin@commerce.state.il.us
Web: <http://www.ILCOMMERCE.com/>

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

Provides materials on coal production, distribution, usage, research, development, and demonstration of clean coal technologies. Materials available include: *Coal is Cool Activity Book*, with 60 coal-related puzzles, which is recommended for kindergarten through grade 4 and a teacher's guide for kindergarten through grade 4 entitled *Dig It; Illinois Coal Teacher's Guide*, developed with lesson plans and hands-on activities for grades 5 through 8; a video, "Kids, Coal and the Environment;" and a poster, *What's Coal Got To Do With You? Illinois Coal...Energizing the 21st Century*, an integrated high school teaching resource

manual covering the formation, history, and uses of coal as well as clean coal technologies. All materials are free. Coal awareness and education efforts target the general public through the media, schools, and special programs in an attempt to diffuse myths regarding coal and to disseminate sound, scientific information. An order form listing all the various publications is available upon request. **60**

Independent Petroleum Association of America

Information Services Department
1101 16th Street, N.W.
Washington, DC 20036
(202) 857-4722
Fax: (202) 857-4799
E-Mail: treardon@ipaa.org
Web: <http://www.ipaa.org>

The national association representing 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* compiles exploration and production statistics for each producing State in a simple manner, suitable for junior high and senior high school students. **61**

Indiana Department of Education

Office of Program Development
Center for School Improvement & Performance
Room 229, State House
Indianapolis, IN 46204-2798
(317) 232-9163
Fax: (317) 232-9121
E-Mail: cmcgrew@mgmt.purdue.edu

A State education agency that provides primary school and secondary school teachers with staff development programs and curricular assistance in environmental and energy education.

Provides energy, economics, and environmental curricular materials and workshops to kindergarten through grade 12 classroom teachers across Indiana. The *Energy, Economics, and the Environment* publication consists of case studies supported by classroom activities, actions, and issues. *Completing the Cycle -- It's Up to Me* contains 55 interdisciplinary lessons that focus on recycling and the environment. This curriculum for kindergarten through grade 8 was written by classroom teachers from Frankfort Community Schools and Crawfordsville Community Schools. The Phase I booklet is designed for use in kindergarten through grade 3, and Phase II is for use in grades 4 through 8. A minimal charge will be assessed for each publication. A list of other environmental and energy education materials is available upon request. **62**

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/ice>

A nonprofit educational organization that provides 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 5 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. 63

Integrated Waste Services Association

1401 H Street, N.W., Suite 220
Washington, DC 20005
(202) 467-6240
Fax: (202) 467-6225
Web: <http://www.wte.org>

Integrated Waste Services Association (IWSA) represents companies that use trash to produce energy as part of a community's integrated solid waste plans. Waste-to-energy facilities use waste to generate enough energy to power 1.3 million homes.

IWSA offers *WasteWorld*, a middle school curriculum addressing environmental, economic, and energy-related issues associated with municipal solid waste management. Originally developed with the support of DOE's National Renewable Energy Laboratory, this multimedia simulation presents a balanced view of source reduction, recycling, waste-to-energy, and land-filling, enabling students to recommend solid waste management plans for their communities. The updated package includes a slide show, interactive computer software for both Macintosh and Windows on CD-ROM, revised student activities and teacher's guide, glossary, and resources to supplement student research. Write or call or visit the Web site for more information. **64**

JEA

21 West Church Street
Jacksonville, FL 32202
(904) 632-5200
Fax: (904) 632-6335
Web: <http://www.jea.com>

A municipal electric, water and sewer utility serving over 320,000 customers in Jacksonville, FL, and vicinity.

Provides free energy and water educational resources (booklets, posters, kits, audio/visual materials, plays, etc., for kindergarten through grade 12) to schools **within the JEA service area**. Services include student and teacher materials, speakers, water, sewer and power plant tours, teacher seminars with affiliates: E. Dale Joyner Nature Preserve at Pelotes Island, Tree Hill Nature Center and the University of North Florida. **65**

Johnson Controls, Inc.

Academy of Energy Education
507 E. Michigan Street
Milwaukee, WI 53202
(414) 274-5574
Fax: (414) 274-5030
E-Mail: michelle.l.tanem@jci.com
Web: <http://www.johnsoncontrols.com/cg>
<http://www.academyofenergy.org>

Provides facility services and building control system solutions to meet the specific needs of all types of nonresidential buildings, which include 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 (NEF), 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. Each program contains a Polaroid camera and film packet to integrate visual learning aspects and the Energy Action Challenge for personal application of energy conservation. For more information, call your local Johnson Controls office, or (888) 214-0916. **66**

Keep America Beautiful, Inc.

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

A nonprofit organization whose network of local, statewide and international affiliate programs educate individuals about litter prevention and ways to reduce, reuse, recycle and properly manage waste materials.

Offers educational materials for use in kindergarten through grade 12. *Waste in Place*, a curriculum supplement for educators of kindergarten through grade 6 students, introduces children to responsible waste handling in over 30 hands-on lesson plans. *Waste: A Hidden Resource*, a curriculum supplement for educators of students in grades 7 through 12, provides an overview of solid waste and encourages students to research available options and make decisions through role-playing in a mock crisis. Both curricula are available for a fee. *Mister Rogers' Activity Book for Young Children* presents information about reuse and recycling in an entertaining and easy-to-understand way, through simple at-home or at-school projects, and is available for a nominal fee. Free samples of KAB lesson plans and other publications are available on the Web site listed above. **67**

Kids For A Clean Environment (Kids F.A.C.E.)

P.O. Box 158254
Nashville, TN 37215
1-(800) 952-3223
Fax: (615) 333-9879
E-Mail: kidsface@mindspring.com
Web: <http://www.kidsface.org>

A nonprofit children's environmental organization.

Provides free membership to children and teachers. Included with membership is the membership guide *Our World, Our Future: A Kids Guide to Kids for a Clean Environment* and a membership certificate. Material focuses on environmental topics and offers proactive projects that can be performed at home or at school. Their current project is the One In A Million Program. One million children will plant one million trees by the year 2000. For instructions, send a self-addressed stamped envelope to the above address. **68**

Kissimmee Utility Authority (KUA)

Office of Communications
P.O. Box 423219
Kissimmee, FL 34742-3219
(407) 933-7777
Fax: (407) 933-1761
E-Mail: cgent@kua.com
Web: <http://www.kua.com>

A municipal electric utility serving over 45,000 customers in Osceola County, Florida.

Provides free energy educational resources (coloring books, booklets, calendars, posters, kits, audio/visual materials, etc., for use in kindergarten through grade 12) to schools **within the KUA service area**. Services include student and teacher materials, speakers' bureau, power plant and energy control center tours, and teacher seminars with neighboring utilities. A free color brochure highlighting the services and materials is available upon request. **69**

The Learning Works

P.O. Box 6187, Dept. NEIC
Santa Barbara, CA 93160
(805) 964-4220
Fax: (805) 964-1466
E-Mail: lesattlw@aol.com
Web: <http://www.thelearningworks.com>

A publishing firm specializing in children's educational books.

Publishes award-winning educational activity books for youth ages 5 to 14. Energy-related titles include: *Weather, Electricity, Environmental Investigations; Science Works; Earth Book for Kids: Activities to Help Heal the Environment; My Earth Book; and Likeable Recyclables*. These books are available from school supply stores, bookstores, or the publisher. A free catalog is available upon request. **70**

Midwest Renewable Energy Association

P.O. Box 249
Amherst, WI 54406
(715) 592-6595
Fax: (715) 592-6596
E-Mail: mreainfo@wi-net.com
Web: <http://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 Midwest Renewable Energy Fair every June at the Portage County Fairgrounds in Amherst, WI. This annual event features workshops, exhibits, speakers, a model home, renewable energy home tours, alternatively fueled vehicle showcase, regional Junior Solar Sprint competition, entertainment, and more. Offers year-round workshops on renewable energy and energy efficiency. *ReNews*, a quarterly newsletter is available for a minimal fee. **71**

Mineral Information Institute (MII)

475 17th Street, Suite 510
Denver, CO 80202
(303) 297-3226
Fax: (303) 295-6463
Web: <http://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 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 indicating grade(s) taught. For a fee, a Go Kit for Classroom Speakers is also available.**72**

Minnesota Department of Public Service

121 7th Place East, Suite 200
St. Paul, MN 55101-2145
(612) 296-5175
Fax: (612) 296-0201
E-Mail: infocenter@dpsv.state.mn.us
Web: <http://www.dpsv.state.mn.us>

A State energy office which protects the public in utility rate and quality of service matters, provides a range of energy information, and promotes conservation and renewable resource development.

Provides a wide range of energy conservation materials (primarily brochures and fact sheets) targeted to residential, commercial, and industrial audiences. This information is designed to encourage specific conservation practices and to increase public awareness of energy/environmental issues. Some of these free materials may be appropriate for students in grades 8 through 12. More direct education efforts are geared toward Minnesota home builders and community energy auditors. The Department's Energy Information Center has a full-time staff to answer consumers' energy-related questions and to provide individualized advice as needed. **73**

National Aeronautics and Space Administration (NASA)

300 E Street, S.W., Code FE
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, including the Aero-Space Technology, Earth Science, Human Exploration and Development of Space, and Space Science Enterprises. **74**

National Arbor Day Foundation

100 Arbor Avenue
Nebraska City, NE 68410
(402) 474-5655
Fax: (402) 474-0820
E-Mail: mscribner@arborday.org
Web: <http://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. Also has available for a nominal fee for elementary school- and middle school-age children, curriculum kits that stress the contributions made by trees and the importance of environmental stewardship. For samples of the free educational materials, including the *Celebrate Arbor Day!* booklet, and to receive information about the curriculum kits, write or call to request an *Educational Materials Sampler*. **75**

National Association of Conservation Districts (NACD)

408 East Main
P.O. Box 855
League City, TX 77574-0855
1-(800) 825-5547
(281) 332-3402
Fax: (281) 332-5259
E-Mail: publicaffairs@NACDNET.org
Web: <http://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.

Sponsors conservation education recognition programs for primary school and secondary school teachers as well as a poster contest for students. Publishes and distributes educational materials about conserving soil and water and other natural resources. Free materials include an education catalog containing all educational products available from NACD and information about the contest. **76**

National Corn Growers Association

1000 Executive Parkway, #105
St. Louis, MO 63141
(314) 275-9915
Fax: (314) 275-7061
E-Mail: corninfo@ncga.com
Web: <http://www.ncga.com>

Actively represents the interests of producers of the nation's top grain crop. Membership includes over 30,000 growers in 48 states and 42 affiliated state corn grower organizations. NCGA's mission is to create and increase opportunities for corn growers in a changing world and enhance corn utilization and profitability.

Provides teachers with Web-based educational kit, *Corn in the Classroom*, which includes curriculum materials which illustrate corn as a reservoir of energy and a renewable substitute for products made from expendable fossil fuels. *The World of Corn* resource booklet, a statistical look at corn markets and trends, can be requested and is provided free by contacting the association. **77**

National Cotton Council of America

Education Materials
1918 N. Parkway
Memphis, TN 38112
(901) 274-9030
Fax: (901) 725-0510
E-Mail: comms@cotton.org
Web: <http://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 value-added product markets at home and abroad.

Provides for a nominal fee a variety of print and audiovisual materials on cotton, 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 a pheromone (sex attractant), and the judicious application of crop protection products. 78

National Energy Education Development Project (NEED)

P.O. Box 2518
Reston, VA 20195
(703) 471-6263
Fax: (703) 471-6306
E-Mail: need@erols.com
Web: <http://www.need.org/need>

A national network of students, educators, and leaders in government and industry dedicated to providing comprehensive energy programming.

Through hands-on science, math, drama, social science, art and music, students work with their peers, teachers, family, and community on energy education programs they design themselves. Memberships are available to educators for little or no cost based on availability of regional sponsorship. Members receive: the *NEED 1999-2000 Energy Kit* complete with teacher guides to a variety of activity. **Energy Infobooks** at all reading levels covering all energy sources, the *Energy Exchange* magazine, supplemental teacher/student guides to complete their energy education package, access to the programs and activities of NEED's government and industry partners, and the chance to participate in the NEED Youth Awards for Energy Achievement. In 1999-2000, NEED will release its

Energy Management for Schools programs *Learning and Conserving*, *Monitoring and Mentoring*, and *Building Buddies*. A **Primary Science of Energy** program will be available as well. Workshops and training programs will be hosted across the United States, with 3, week-long, **NEED Energy Conferences for Educators** taking place in July of each year. All NEED programs and materials are correlated to the National Science Education Standards. Also in the works at NEED is a new partnership with the Energy Information Administration (EIA) to work with NEED schools to develop the EIA's Kid's Page Web Site. Check out <http://www.eia.doe.gov/kids/> for a great resource for students and teachers. **79**

National Energy Foundation (NEF)

Resources for Education
National Office
5225 Wiley Post Way, Suite 170
Salt Lake City, UT 84116
(801) 539-1406
Fax: (801) 539-1451
E-Mail: info@nef1.org
Web: <http://www.nef1.org>

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

Announces the establishment of the new NEF Academy. The Academy is a nationwide program of the Foundation which provides university graduate credit to educators for implementation of energy, environmental, and natural resources education in their classrooms. Academy course topics include energy conservation, rocks and minerals, and natural gas fundamentals and safety. Also included is the NEF award-winning Energy Action Patrol. Each course is independent study, with credit offered from accredited universities. New products available from NEF include two posters, "Out of the Rock," and "Electrotechnology: A Light on the Past, Present and Future." Other new publications include for kindergarten through grade 3, an activities guide entitled, *Natural Gas Fun and Safety* and an activities guide entitled, *Thomas Edison and Electrotechnology*. NEF currently has active educational partnerships with private and government entities nationwide, including an educational materials fulfillment program which provides free natural gas education materials to educators around the country. NEF also offers in-service support to sponsors and school districts. A free full-color catalog of educational resources is available free upon request. **80**

National Geographic Society

School Publishing Group
1145 17th Street, N.W.
Washington, DC 20036
1-(800) 368-2728
Fax: (515) 362-3366
Web: <http://www.nationalgeographic.com>

A nonprofit organization.

Provides educational materials designed for the kindergarten through grade 12 earth, physical, and environmental sciences curriculum. Materials include videos, books, atlases, globes, software, maps, posters, Wonders of Learning kits, Picture Pack transparency sets, interactive videodiscs, and CD-ROMs. Free catalogs are available upon request. **81**

The National Hydropower Association

One Massachusetts Avenue, N.W., Suite 850
Washington, DC 20001
(202) 642-1700
Fax: (202) 682-9478
E-Mail: hydroinfo@hydro.org
Web: <http://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, featuring a variety of educational programs. 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. **82**

National Mining Association

Education Department
1130 17th Street, N.W.
Washington, DC 20036
(202) 463-2665
Fax: (202) 857-0135
E-Mail: csheppard@nma.org
Web: <http://www.nma.org>

A trade association representing producers of America's coal, metals, industrial minerals, and agricultural minerals; mining equipment manufacturers; and engineering, consulting, and financial institutions that serve the mining industry.

Provides educational materials on mining in the United States and the importance of minerals in our daily lives. A brochure, *What Mining Means to Americans*, is available for a fee to the general public. Single copies are available free to a teacher requesting them on school letterhead. Other materials are available upon request.

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National Network of Energy and Environmental Education Professionals

302 West Hill Street
Champaign, IL 61820
(217) 359-9442
Fax: (217) 359-9446
E-Mail: Educational_Dividends@compuserve.com
Web: <http://www.leeric.lsu.edu/network/network.htm>

A grass roots membership organization comprised of program managers in government, business, education and nonprofit organizations. Goal is to serve as an information coordinator and to promote the expansion of energy and environmental education.

Information is available on educational materials and activities in all aspects of energy and environmental areas. Assistance is available on questions regarding programs in your area, developing energy and environmental lessons, or integrating energy and environmental information into existing lessons. Network membership is available for a fee, which allows access to field-tested materials, projects and strategies which can be included in your program, assistance with curriculum development, evaluation, incorporating the arts or marketing your program. Members meet at Networking Conferences and information is exchanged through the organization's newsletter, *Network News*, the Network Home Page and through personal contacts.

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National Propane Gas Association

1600 Eisenhower Lane, Suite 100
Lisle, IL 60532
(630) 515-0600
Fax: (630) 515-8774
E-Mail: info@npga.org
Web: <http://www.propanegas.com/npga>

A national trade association comprising 3,600 companies representing all aspects of the propane industry.

Provides environmental, safety, and propane industry information in fact sheets, a coloring book, and an activity book. Also available is an Energy Costs Comparison Calculator. **85**

National Rural Electric Cooperative Association

Youth Programs
4301 Wilson Boulevard, GR 11-252
Arlington, VA 22203
(703) 907-5717
Fax: (703) 907-5516
Web: <http://www.nreca.org>

A service organization based in Arlington, VA. Represents the Nation's 1,000 nonprofit consumer-owned cooperative electric systems, which provide electric service to more than 32 million people in 46 States.

Provides educational booklets and pamphlets aimed at junior and senior high school students (as well as adults). Publications include *History of Rural Electrification*; *Energy and Electricity* (includes a home safety audit); and *Careers in Electric Cooperatives*. Publications are for sale. An order form for the materials is available upon request. **86**

National Science Foundation

Office of Legislative and Public Affairs
4201 Wilson Boulevard, Room 1245
Arlington, VA 22230
(703) 306-1070
Fax: (703) 306-0157
E-Mail: nstw@nsf.gov
Web: <http://www.nsf.gov/od/lpa/nstw/start.htm>

A Federal agency that supports basic science and engineering research and education.

National Science and Technology Week (NSTW), a collaborative effort of the National Science Foundation and corporate sponsors, features partnerships with community institutions (e.g., schools, libraries, museums, zoos); a special focus activity encourages parents to join their children in discovering science in their everyday activities and interests. Materials include an NSTW annual poster, "training activities" packets, and "sharing science" brochures that alert the public to scientific discovery. Activities and materials promote: (1) the sharing of information on science curriculum and education trends; (2) developing "Science Day" activities; (3) organizing community-wide contests or events; and, (4) recruiting scientific and technical personnel to advise children about careers. **87**

National Science Resources Center (NSRC)

Arts and Industries Building, Room 1201
Washington, DC 20560-0403
(202) 357-4892
Fax: (202) 786-2028
E-Mail: outreach@nas.edu
Web: <http://www.si.edu/nsrc>

NSRC is operated by the Smithsonian Institution and the National Academy of Sciences/National Academy of Engineering/Institute of Medicine to improve the teaching of science in the Nation's schools.

Collects and disseminates information about exemplary science teaching resources, develops innovative science curriculum materials, and sponsors outreach activities to help school districts develop and sustain hands-on science programs. Relevant titles include: *Resources for Teaching Elementary School Science* and *Resources for Teaching Middle School Science*, science resource guides; *Electric Circuits*, *Magnets and Motors*; *The Technology of Paper*; and *Ecosystems*, inquiry-centered curriculum units in the Science and Technology for Children (STC) elementary science program. **88**

National Science Teachers Association

Publications
1840 Wilson Boulevard
Arlington, VA 22201
1-(800) 722-NSTA
(703) 243-7100
Fax: (703) 243-7177
E-Mail: pubsales@nsta.org
Web: <http://www.nsta.org>

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

Publishes educational products and activity books for students from kindergarten through college. Titles include: *Earth: The Water Planet*; *Water, Stones & Fossil Bones*; *Ten-Minute Field Trips*; *Energy Sources and Natural Fuels*; *Taking Charge: An Introduction to Electricity*; *Water Matters*; *Project Earth Science: Astronomy*; *Project Earth Science: Meteorology*; *Project Earth Science: Physical Oceanography*; *Project Earth Science: Geology*; *Earth At Hand*; *Decisions - Based on Science*; *Biodiversity*; *Carrying Capacity*; *Deforestation*; *Evidence of Energy: An Introduction to Mechanics*; *Move with Science: Energy, Force & Motion*; and *Teach With Databases: Toxics Release Inventory*. These books are available for a fee. A free catalog is available upon request. **89**

National Wildlife Federation

8925 Leesburg Pike
Vienna, VA 22184
(703) 790-4100
Fax: (703) 790-4094
E-Mail: wildlife@nwf.org
Web: <http://www.nwf.org>

The Nation's largest nonprofit conservation education organization. The mission of the National Wildlife Federation 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, equitable, and sustainable future.

Publishes the magazines *Your Big Backyard* and *Ranger Rick*® for children and *National Wildlife*, and *International Wildlife* for adults; produces a **free National Wildlife Week Kit** for educators each year; produces *Animal Tracks*® *Action Pack* curriculum units for educators on Habitat, Water, Wetlands, Urban Communities, Wolves, Bison, and The Northern Forest; conducts *Animal Tracks* teacher training workshops around the country; produces *Animal Tracks* resources on-line at <http://www.nwf.org/atracks>; produces the annual *Conservation Directory*; and has a *Schoolyard Habitats* branch of the *Backyard Wildlife Habitat*® program. Call for a free educator's packet. **90**

Natural Gas Supply Association (NGSA)

805 15th Street, N.W., Suite 510
Washington, DC 20005
(202) 326-9300
Fax: (202) 326-9330
E-Mail: mail@ngsa.org
Web: <http://www.ngsa.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 contained in the following Web site:

<http://www.ngsa.org> – contains 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 (royalty payments and field deliverability of 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 (retail competition at the consumer level) 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. **91**

The Natural Gas Vehicle Coalition

1515 Wilson Boulevard, Suite 1030
Arlington, VA 22209
(703) 527-3022
Fax: (703) 527-3025
E-Mail: kbatte@NGVC.org
Web: <http://www.NGVC.org>

A national trade association and commercialization organization supported by gas companies, natural gas vehicle equipment suppliers, local government agencies, and other companies committed to developing profitable, long-term markets for natural gas vehicles.

Acts as a clearinghouse for information on natural gas vehicles for members and the general public. General information packets and the *Member Business Guide*, a list of member equipment suppliers and the products and services they provide, are available free of charge. Also available for a nominal fee is "The Road to Clean Air," a 12-minute educational video which features actress Lindsay Wagner describing the virtues of natural gas vehicles. **92**

New York State Geological Survey/State Museum

3136 Cultural Education Center
Albany, NY 12230-3136
(518) 474-5816
Fax: (518) 486-3696
E-Mail: rfakundi@mail.nysed.gov

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. Provides a limited number of honoraria for college-level geological research in New York State. Conducts workshops and classes in geological sciences through the New York State Museum in Albany, NY. Produces geological maps and reports for both professionals and the general public. A catalog of publications is available free upon request. **93**

The NoodleHead Network

107 Intervale Avenue
Burlington, VT 05401
1-(800) 639-5680
(802) 862-8675
Fax: (802) 864-7135
E-Mail: noodlhed@together.net
Web: <http://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 video tapes 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. **94**

North Carolina Solar Center
Box 7401
North Carolina State University
Raleigh, NC 27695-7401
(919) 515-3480
Fax: (909) 515 5778
E-Mail: ncsun@ncsu.edu
Web: <http://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 Energy Division of the NC Department of commerce and the U.S. Department of Energy, with State Energy Program funds in cooperation with North Carolina State University.

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 CD's and other Solar Center resources is located in the Solar House library. Our Web site provides a listing of our programs, workshops, special events, fact sheets, books for sale, library bibliography, videos, and other Solar Center resources.

95

Northeast Sustainable Energy Association (NESEA)
50 Miles Street
Greenfield, MA 01301
(413) 774-6051
Fax: (413) 774-6053
E-Mail: edu@nesea.org
Web: <http://www.nesea.org>

The largest regional energy association in the United States, and a leading force in public and professional education, advocacy, and policy information.

Offers educational programs and resources on the subject of sustainable energy choices as it relates to transportation, everyday choices, and the role of trees in the energy and carbon cycle. In particular, NESEA offers *Getting Around Without Gasoline*, an 8-chapter lesson set for middle school teachers and students free of charge; a 48-page booklet and teacher guide on sustainable choices for grades 4 through 7 entitled *Choose Your Future: Adventure Game* (free review copy); and *Totally TREE-Mendous Activities* for grades 3 through 6 for a fee; and free transportation resource packets for elementary, middle and high school students.

In addition, NESEA coordinates the Northeast Junior Solar Sprints, and invites students from grades 5 through 8 to participate in a miniature solar car competition

run by 12 area coordinators from Maine to Washington, DC; organizes the annual NESEA American Tour de Sol, the electric vehicle championship, and 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; offers workshops and conferences for educators on the educational materials and activities outlined above.

NESEA's Web site, eleven local chapters, and publications such as the *Northeast Resource Guide*, and the *Northeast Sun* magazine keep a vital and growing network of members informed on the latest information on sustainability as it pertains to energy production and use, buildings, and transportation. Contact NESEA to receive information on any of these offerings. **96**

Northeast Utilities

Community Relations-Educational Programs
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-2752
Fax: (860) 665-2796
Web: <http://www.nu.com>

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

Provides educational services free to educators and organizations **in the areas served by Northeast Utilities**. Offers visits to information centers, tours, classroom presentations, nature trails and environmental education, speakers' bureau, safety presentations, video library, energy/nuclear energy curriculum and related literature, teacher workshops, and teaching kits. Booklets and posters for kindergarten through grade 12 are available. Also has pamphlets on home appliances, insulation, heating and cooling, and weatherization.

*Connecticut Yankee Information
& Science Center*
362 Injun Hollow Road
Haddam Neck, CT 06424-3099
1-(800) 348-INFO (CT only)
(860) 267-9279

*Millstone Information & Science
Center*
278 Main Street
Niantic, CT 06357
1-(800) 428-4234 (CT only)
(860) 691-4670
Fax: (860) 691-4676

*Northfield Mountain Recreation
& Environmental Center*
99 Millers Falls Road
Northfield, MA 01360
1-(800) 859-2960
(413) 659-3714
Fax: (413) 659-4460
E-Mail: nerc@nu.com

*The Science & Nature Center
at Seabrook Station*
Box 300, Route 1
Seabrook, NH 03874
1-(800) 338-7482 (New England
only)
(603) 474-9521, Ext. 2727
Fax: (603) 474-9521, Ext. 2782

*Public Service of New Hampshire
Amoskeag Fishways Learning
Center*
1000 Elm Street
P.O. Box 330
Manchester, NH 03105
(603) 626-3474
Web: <http://www.psnh.com>

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Northern Indiana Public Service Company

Corporate Citizenship
ATTN: Educational Services
5265 Hohman Avenue
Hammond, IN 46320
(219) 647-6215
Fax: (219) 647-4010
Web: <http://www.nipsco.com>

A regulated electric and natural gas public utility serving the northern third of Indiana.

Provides, free to primary school and secondary school educators **within its service territory**, power plant tours, films, videos, publications, and activity booklets.

98

Northern States Power Company

Community Affairs Department
414 Nicollet Mall (RS4)
Minneapolis, MN 55401
(612) 330-6677 (school-to-work)
(612) 330-6538 (speakers)
(612) 330-7981 (tours)
(612) 330-7976 (energy safety demos)
Fax: (612) 330-5878
E-Mail: lynda.forbes@nspco.com
Web: <http://www.nsspco.com>

An investor-owned electric and natural gas utility serving parts of Minnesota, Wisconsin, North Dakota, South Dakota, and northern Michigan.

Provides educational services free to kindergarten through grade 12 educators **in the areas served by Northern States Power Company**. Offers visits to two nuclear plant training centers and Minnesota's largest coal-fired plant; kindergarten through grade 6 energy and environmental education curriculum; speakers bureau; job shadowing; and career exploration. **99**

Nuclear Energy Institute

1776 I Street, N.W., Suite 400
Washington, DC 20006-3708
(202) 739-8000
Fax: (202) 785-4019
E-Mail: publications@nei.org
Web: <http://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. **100**

Nuclear Information and Resource Service

1424 16th Street, N.W., Suite 601
Washington, DC 20036
(202) 328-0002
Fax: (202) 462-2183
E-Mail: nirsnet@nirs.org
Web: <http://www.nirs.org>

A nonprofit information clearinghouse.

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 a fee, 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. **101**

OG&E Electric Services

Community Services
P.O. Box 321 MC 204
Oklahoma City, OK 73101
(405) 553-3015
Fax: (405) 553-3508
E-Mail: pangbor1@oge.com
Web: <http://www.oge.com>

An investor-owned electric utility serving parts of Oklahoma and western Arkansas.

Provides educational materials free to educators **in the areas served by OG&E Electric Services**. Materials include films/videos, literature, multimedia kits with teacher/student materials. Activity booklets and a teacher resource guide are also available. **102**

Ohio Oil & Gas Association

1718 Columbus Road, SW
P.O. Box 535
Granville, OH 43023-0535
(740) 587-0444
Fax: (740) 587-0446
E-Mail: tstewart@ooga.org
Web: <http://www.ooga.org>

Formed in 1947 to protect, promote, foster and advance the common interests of those engaged in all aspects of the Ohio crude oil and natural gas producing industry. With a 1,400 membership, this is one of the largest organizations of its kind in the United States.

Offers the following materials: Drill Bits, a series of informational news articles concerning issues of public interest; *Facts at a Glance*, an informational brochure about the Ohio crude oil and natural gas industry; *The Energist: Getting to Know Natural Gas* (single copy); and *The Energist: Getting to Know Petroleum* (single copy). Also available is a list of several hundred products made from petroleum; and activities and puzzles designed for classroom use prepared by the Ohio Division of Geological Survey. **103**

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

E-Mail: mstitt@oerb.com

Web: <http://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. Also sponsors 1½ 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 oilfield safety video, "Play It Smart!" Geared to middle school students, it explains the dangers of playing around oilfield equipment. It stars members of the Dallas Cowboys football team as well as other football teams. Sponsors the Oklahoma Petroleum Challenge, an annual competition for high school students. Cash prizes are awarded for the top essays and winners of a "Jeopardy"-style competition.

104

Omaha Public Power District
Consumer Relations Department
444 South 16th Street Mall
Omaha, NE 68102-2247
(402) 636-3747
Fax: (402) 636-3922
E-Mail: sjefferson@oppd.com
Web: <http://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. **105**

Pacific Gas & Electric Company
Customer Energy Management Department
123 Mission Street, Room 2480, Mail Code H28L
P.O. Box 770000
San Francisco, CA 94177
(415) 973-4009
Fax: (415) 973-8166
E-Mail: BFT4@pge.com
Web: <http://www.pge.com>

An investor-owned utility serving more than 4 million residential customers.

Provides the *Energenius Educational Series*, several complete curriculum programs focusing on energy efficiency and gas and electric safety education for grades 1 through 8. Curriculum materials **are provided at no cost to schools within the service territory** and can be purchased by schools, utilities, and organizations outside Pacific Gas & Electric's 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 State of California. Games and activities can be used inside or outside the classroom and involve both young people and their families. **106**

PP&L, Inc.

Education Relations/Community Affairs
Two North Ninth Street
Allentown, PA 18101-1179
(610) 774-6914
Fax: (610) 774-6503
Web: <http://www.papl.com>

An investor-owned electric utility serving over one million customers.

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 3 graduate credits), Energy and Environment Workshop (worth 1 graduate credit), Teaching Environmental Awareness (TEA) workshops, School-to-Career programs, electrical safety programs, a minigrant program for educators (up to \$500 matching funding), a newsletter (*Partners*) for educators, Electric Go-Cart Competition for high school teams, and Let's Get Real real-life problem solving competition for middle and high school teams. **107**

Polystyrene Packaging Council

1801 K Street, N.W., Suite 701-L
Washington, DC 20006
(202) 974-5321
Fax: (202) 296-7354
E-Mail: pspc@ameriplas.org
Web: <http://www.polystyrene.org>

The Polystyrene Packaging Council (PSPC) is a business unit of the American Plastics Council (APC). PSPC represents the major resin suppliers of polystyrene and the fabricator companies that use the resin to manufacture polystyrene products. PSPC's mission is to serve as a forum for issues of importance to the polystyrene industry, and to serve as the polystyrene industry spokesgroup on issues of importance to selected audiences and the general public.

Offers *The Polystyrene Packaging and the Environment Sourcebook*, an easy-to-use reference guide for teachers that includes descriptions of available materials involving plastics and the environment. Offers age-specific classroom activities, which were prepared with the guidance of science teachers nationwide, that look at the role of plastics in our everyday lives. Also offers general information brochures on polystyrene and solid waste management. One copy is available free of charge. **108**

Procter & Gamble

Educational Services
P.O. Box 14009
Cincinnati, OH 45250-0009
(513) 945-8450
Fax: (513) 945-8979
E-Mail: true.tb@pg.com

Public Affairs Division of a consumer products company.

Offers the free environmental education teaching kit "Planet Patrol" for grades 4 through 6. Materials teach students how to be a part of the solution to America's growing solid waste crisis. The teaching unit includes teacher's guide, student worksheets, and classroom poster. **109**

The Radon Group, Ltd.

P.O. Box 80653
Portland, OR 97280-1653
(503) 245-7092
Fax: (503) 245-7092
E-Mail: radongrp@uswest.net

Hands-on energy education program developers and distributors.

Provides easy-to-use "hands-on" kits meeting Education 2000 goals. Products work with all major science texts. Kits contain teacher guide, student masters, vocabulary, and hardware. Titles include the following: "Insulation Station Kit" on energy efficiency for grades 4 through 9; "Partnerships For A Work Ready America Kit," a conservation program for grades 10 through 12; "Generating Electricity Suitcase Kit" and a video "Zap Rap" on electricity safety for grades 3 through 8; "Nuclear Energy Kit" for grades 4 through 9; and "Solar Photovoltaic Suitcase Kit" and "Hydroelectricity - Water Power Suitcase Kit" for grades 3 through 8. Custom teacher in-service programs are sponsored by participating utilities. Materials are provided free of charge by most utilities. Products may be purchased directly from the company. A free catalog is available. **110**

Railroad Commission of Texas

P.O. Box 12967

Austin, TX 78711-2967

(512) 463-6710 (TEAM materials)

Fax: (512) 463-8463

(512) 463-7110 (Alternative Transportation Fuels materials)

Fax: (512) 463-7292 (Alternative Transportation Fuels materials)

E-Mail: gene.acuna@rrc.state.tx.usWeb: <http://www.rrc.state.tx.us> (see energy education)

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 12) during Texas Energy Awareness Month (TEAM) each September. Texas oil and gas materials include suggested lesson plans, black-line masters for bookmarks and bulletin boards, a speaker's bureau, and resource lists. A bimonthly TV show called "Energize Your Classroom" is available through T-STAR, the state education satellite network. This show provides information about free or low cost energy materials. A document entitled *Energy and Environmental Texas Essential Knowledge & Skills in Social Studies* is available. Also provides free educational workshops and supplemental curriculum materials called, "Alternative Transportation Fuels" for secondary science teachers in Texas. These materials are correlated with Texas Essential Knowledge and Skills and are provided to participants in the workshops only. Materials include a video called "Way Cool Fuels," posters, a game and additional resources. Also includes multi-lesson units entitled "What is Energy?," "Fuels for Everything," "What are Alternative Transportation Fuels?," "Air Pollution and Health," "Dollars and Sense," and "Technology." A teacher's guide, glossary, bibliography and a list of additional resources are provided. Workshops will be offered across Texas. Participating teachers receive extra-duty pay or reimbursements for substitute fees. *Alternative Transportation Fuels* is a joint project of the Texas Railroad Commission, the Texas General Land Office, and the Texas Education Agency and is funded from grants from the U.S. Department of Energy, the Texas State Energy Conservation Office, and the Texas Alternative Fuels Council. Seven free teacher and student lessons are available from the above Web site (see energy education). **111**

Reliant Energy HL&P

Community Relations/Educational Relations
1111 Louisiana
P. O. Box 1700
Houston, TX 77251
(713) 207-1111 or (713) 207-7579
Fax: (713) 207-9892
E-Mail: lucretia-ahrens@reliantenergy.com
Web: <http://www.reliantenergy.com>

An investor-owned electric utility, headquartered in Houston, serving a 5,000-square-mile area on the Texas Gulf Coast.

Provides free educational services to kindergarten through grade 12 educators **in the Reliant Energy HL&P service area**. Services include classroom presentations, films, 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 science and social studies topics and on electricity safety and fuel sources. New "Electric Universe" Internet Resource for Teachers and Students can be found at the Web site listed above. **112**

Renew America

1200 18th Street, N.W., Suite 1100
Washington, DC 20036
(202) 721-1545
Fax: (202) 467-5780
E-Mail: renewamerica@counterpart.org
Web: http://www.crest.org/renew_america

The Nation's source for environmental solutions.

Promotes successful environmental programs to foster their replication. Resources include the *Environment Success Index*, a listing of over 1400 verified programs, and Kid's! Renew America, a page on our Web site devoted to networking and informing kids about environmental and sustainability issues. Please refer to our Web site for these valuable environmental resources. **113**

Renewable Fuels Association

One Massachusetts Avenue, N.W., Suite 820
Washington, DC 20001
(202) 289-3835
Fax: (202) 289-7519
E-Mail: etohrfa@erols.com
Web: <http://www.ethanolrfa.org>

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

Provides general information and 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 above Web site or calling the above number. **114**

Safe Energy Communication Council

1717 Massachusetts Avenue, N.W., Suite 106
Washington, DC 20036
(202) 483-8491
Fax: (202) 234-9194
E-Mail: safeenergy@erols.com
Web: <http://www.safeenergy.org>

A national nonprofit coalition fighting for environmentally safe, affordable energy.

Offers publications and graphics that deal with a variety of issues, including utility deregulation, nuclear power, nuclear waste dangers, global warming, energy efficiency and renewable energy, available for a nominal fee. Titles include: *Reinventing Electric Utilities*; *MYTHBusters #10: International Nuclear Power*; *MYTHBusters #9: Nuclear Power Economics*; *Power Boosters: Ohio's Energy Efficiency Success Stories (Industrial)* and *Home Power Boosters: Ohio's Energy Efficiency Success Stories*. Request a publications list for other titles. **115**

Science Screen Report

1000 Clint Moore Road
Boca Raton, FL 33487-2806
1-(800) 232-2133
Fax: (561) 241-0707
E-Mail: allegro@ssrvideo.com
Web: <http://www.ssrvideo.com>

The only award winning video tape program made available free of charge to schools through corporate sponsors.

An ongoing secondary and elementary video tape series that focuses on the most recent developments in science, technology, and engineering. Produced since 1970 with the active participation of the National Science Teachers Association, "Science Screen Report" (SSR) is designed to stimulate student interest in the challenges and opportunities of pursuing careers in science. More than 650 corporations currently sponsor "SSR" to 3,500 school districts nationwide. Tapes have a long shelf life and become the permanent property of the school system to allow repeated use year after year. **116**

Science Service

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

Science Service administers two youth 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 are chosen to participate in the ISEF. Participants are eligible for scholarships, scientific field trips, summer research internships, and equipment. The Science Talent Search awards \$303,000 in scholarships to 40 finalists. Top prize is a \$50,000 scholarship. Participants must be seniors in high school. Students submit a report of an independent research project in the sciences, official entry form, transcript, test scores, and teacher recommendations. The submission deadline can be as early as late November, but no later than early December. For an official entry form and specific deadline, contact Science Service. **117**

Shell Oil Company

Corporate Communications
P.O. Box 2463
Houston, TX 77252-2463
(713) 241-6161
Fax: (713) 241-6988
Web: www.countonshell.com

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

Offers *Oil*, a booklet describing the origin of oil and its production, conversion to thousands of products, and distribution to customers around the world. Also available are *A Story of Achievement*, a brief history of the Shell Oil Company, and *Count on Shell Driving Safety* booklets. Booklets are free of charge, but quantities are limited. **118**

SME

P.O. Box 625002
Littleton, CO 80162-5002
1-(800) SME-3132
(303) 973-9550
Fax: (303) 973-3845
E-Mail: sme@smenet.org
Web: <http://www.smenet.org>

A nonprofit educational organization providing educational resources related to energy, minerals, and mining. The Society for Mining, Metallurgy & Exploration, Inc., (SME) is the worldwide professional society for mining engineers.

Offers both free and for-sale materials including classroom resource guides, posters, videos, and computer programs. Also can provide teachers with contacts among SME members in most geographic locations who are willing to help in teaching about minerals and mining. **119**

Society of Automotive Engineers

SAE Foundation
400 Commonwealth Drive
Warrendale, PA 15096-0001
1-(800) 457-AWIM
Fax: (724) 776-0890
E-Mail: awim@sae.org
Web: <http://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 II: The Design Experience (AWIM II), a series of two specially adapted engineering design challenges for grades 7 and 8. AWIM II is a multi-disciplinary 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 II are to improve the teaching and learning of science, mathematics and technology education through the integration of the disciplines. AWIM II is a program based on an engineering design experience, suitable for middle school students and teachers; to strengthen the collaboration between students in design teams and teachers in teaching teams; to mobilize members of the community as classroom volunteers in support of a curriculum experience. Please write or E-mail SAE to obtain information on how to receive a free copy of A World in Motion for your local school. **120**

Solar Energy Industries Association

1111 N. 19th Street, Suite 260
Arlington, VA 22209
(703) 248-0704
Fax: (703) 248-0714
E-Mail: info@seia.org
Web: <http://www.seia.org>

A nonprofit national trade association which represents the photovoltaic and solar thermal manufacturers and component suppliers.

Publishes *Renewable Energy Fact Sheets*, which include information and classroom activities. Also produces *Solar Science Activities*, which includes dozens of classroom activities for grades 5 through 9, and *Energy, Technology and Society*, which is geared for high school students and provides information on alternative energy technologies. All are available for a fee. A free publications catalog is available upon request. CD-ROM educational modules are available through the Solar Energy Research and Education Foundation. **121**

Solar Now, Inc.

The Sunroom
100 Sohier Road
Beverly, MA 01915
(978) 927-9SUN
Fax: (978) 927-9191
E-Mail: solar19@idt.net
Web: <http://www.eren.doe.gov/solarnow>

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

Provides programs for students and educators seeking hands-on renewable energy education. Based at one of the nation's largest photovoltaic sites, our field study center also hosts a 10kW windmill and an interactive classroom. Field trips may be arranged by calling the above number. The following are also offered: comprehensive teacher education workshops, summer internships for college students, a library of renewable energy activities, and student conferences. A desk-top 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. **122**

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: <http://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; "Let's Recycle Together," a finger puppet and four coloring poster play scenes/stories for ages 4 through 7; "YES I CAN!," a video and teacher's guide for grades 1 through 3; "Earth Cycles," a cross-age teaching program for grades 8 through 12 and grades 3 through 5. The guide outlines 3 hands-on activities; "Roscoe's Totally Cycled World," a new middle school CD-ROM with interactive missions in science, language arts, math and social studies; and "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 (black sheet masters), and a coloring poster are available. Please indicate grade level(s) for which materials or order forms are needed. **123**

The Wilds

14000 International Road
Cumberland, OH 43732
(740) 638-2220
Fax: (740) 638-2287
E-Mail: shubbard@thewilds.org
Web: <http://www.eduwilds.org> and <http://www.thewilds.org>

The Wilds, a nonprofit organization working to advance conservation through education and research programs which emphasize the intensive management of wildlife resources.

Situated on 9,154 acres of reclaimed strip-mined land, the Wilds manages more than twenty species of large mammals in open range settings for education, breeding and research. Education programs for elementary, middle and high school age students include free lessons from the innovative, interdisciplinary curriculum, *Wildlife Conservation Studies Program*, available on the education web site, <http://www.eduwilds.org>. Also available are distance learning programs which utilize interactive video to reach classrooms with problem-based, science instruction. On-site programs include guided tours, day camps and overnight camps – all focused on building knowledge, skills, and attitudes important to the restoration of habitat and the conservation of wild spaces and wild species. **124**

Troll School and Library

100 Corporate Drive
Mahwah, NJ 07430
(201) 529-4000
Fax: (201) 529-1862
Web: <http://www.troll.com>

A publishing firm specializing in children's books.

Publishes educational materials for students from Pre-Kindergarten through grade 8. Includes a complete line of science materials relating to life, earth and physical sciences. New Horizons, a Science, Technology and Environment Program, hands-on kits, and various supplemental books are available. Materials may be purchased from the publishers. Free catalogs are available upon request. **125**

Union of Concerned Scientists

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

An independent, nonprofit organization of scientists and other citizens concerned about the impacts of advanced technology on society.

The Union of Concerned Scientists (UCS) has created a unique alliance between many of the nation's leading scientists and thousands of committed citizens to address the most serious environmental and security threats facing humanity. Materials include books, fact sheets, and briefing papers on global warming, transportation policy, renewable energy, nuclear power safety, and sustainable agriculture. Fact sheets include: *What is Global Warming?; Global Warming Hot Air: Some Popular Myths Dispelled; Cars and Trucks and Global Warming; Energy and Global Warming; and Global Warming Solutions*. Free brochures include *Solar Power, Energy on the Road, Nuclear Power, Renewable Energy and Developing Nations* and the *World Scientists' Call for Action on Global Warming*. UCS's newest book is *Energy Innovations: A Prosperous Path to a Cleaner Environment*, which describes how we can reduce the threat of global warming while helping the economy. Teachers can purchase a 100-page multidisciplinary guide to teaching renewable energy in grades 7 through 12, as well as a collection of eight posters on renewables and a renewable energy slide show. **126**

University of Florida

Center for Economic Education
186 Norman Hall
Gainesville, FL 32611-2053
(352) 392-0971
Fax: (352) 392-9193
E-Mail: econed@coe.ufl.edu
Web: <http://www.coe.ufl.edu/CEE/CEE.html>

A university center responsible for providing educational materials to teachers.

Provides curriculum guides for teachers. Available for a fee are the *Energy and Economics* (high school); *Resources and Energy* (grades 2 and 3); and *Resources and Energy* (middle school) curriculum guides designed to give students a greater understanding of the connections between energy and economics. Bulk orders of 100 or more copies can be purchased at a discount. **127**

University of Illinois at Urbana–Champaign

School of Architecture–Building Research Council (BRC)
1 East St. Mary's Road
Champaign, IL 61820
1-(800) 336-0616
Fax: (217) 244-2204
E-Mail: kgallghr@uiuc.edu
Web: <http://www.arch.uiuc.edu/brc>

A nonprofit information clearinghouse and research center.

Publishes 8-, 12-, and 16-page booklets on how to make homes comfortable, healthy, and energy efficient, which 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. **128**

U.S. Consumer Information Center

Pueblo, CO 81009
(719) 948-4000
Fax: (719) 948-9724
E-Mail: Catalog.pueblo@gsa.gov
Web: <http://www.pueblo.gsa.gov>

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

The Consumer Information Center (CIC) 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, child care, employment, small business, education, food and nutrition, and more. Also available through the Consumer Information Center is the *1998-99 Consumer's Resource Handbook*. This helpful guide provides assistance with consumer problems and complaints. Lists consumer contacts at hundreds of companies and trade associations, state and federal government agencies, local and national consumer organizations, and much more.

In addition, CIC offers Lista de publicaciones Federales en español para el consumidor, which lists nearly 250 free Spanish publications available from various Federal agencies. A free copy of our catalog is available by writing to: Free Catalog, Pueblo, CO 81009. Bulk copies are available to schools and nonprofit groups able to distribute 10 or more copies. **129**

**U.S. Department of Agriculture
Forest Service**

Rocky Mountain Research Station
240 W. Prospect Street
Fort Collins, CO 80526
(970) 498-1500
(970) 498-1719 (publications distribution)
Fax: (970) 498-1660
Web: <http://fsweb.rmrs.fs.fed.us>

Forest Service research is intended to serve society by developing and communicating the scientific information and technology needed to protect, manage, and use the natural resources of forests and rangelands.

Provides copies of technical publications on ecosystem component interactions, resource management and protection, resource interactions, and people's values and interactions with ecological systems. Available publications include: *Distribution of Abandoned and Inactive Mines on Forest Service Lands*; *Energy and Industries in National, Regional, and State Economies*; and *The Energy and Mineral Supply and Demand Situation Through 2045*. **130**

**U.S. Department of Commerce
National Oceanic & Atmospheric Administration (NOAA)**
Office of Public and Constituent Affairs
14th & Constitution Avenue, N.W., Room 6013
Washington, DC 20230
(202) 482-6090
Web: <http://www.noaa.gov>

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

Provides free of charge to students, teachers, librarians, and the general public information 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, civilian satellites, and global warming. Information about NOAA's educational programs, like the Teacher at Sea, is also available from this office. **131**

**U.S. Department of Education
ERIC Clearinghouse for Science, Mathematics,
and Environmental Education**
1929 Kenny Road
Columbus, OH 43210-1080
1-(800) 276-0462
(614) 292-6717
Fax: (614) 292-0263
E-Mail: ericse@osu.edu
Web: <http://www.ericse.org>

One of 16 ERIC clearinghouses, the ERIC Clearinghouse for Science, Mathematics, and Environmental Education (ERIC/CSMEE) develops, maintains, and makes accessible to the public the world's largest education-related database which includes over 850 items relating to energy education.

ERIC/CSMEE, sponsored by the National Library of Education, U.S. Department of Education, has as its primary function the acquisition and dissemination of printed materials related to science, mathematics, and environmental education. The information is indexed and abstracted for inclusion in two monthly publications, *Resources in Education (RIE)* and *Current Index to Journals in Education (CIJE)*. *RIE* provides abstracts for a variety of educational materials; *CIJE* announces journal literature. In addition to acquiring and processing documents and journal articles, the ERIC/CSMEE staff produces digests and other documents. Digests are short publications (one page, front and back) on a single topic. Other publications include yearbooks, source books, reviews of research, instructional activity collections on broad topics, and collections of papers presented at national meetings. The Clearinghouse offers a variety of user services and maintains a full ERIC microfiche collection, *RIE* and *CIJE* reference

collection, and a library collection of materials related to the scope areas. The Clearinghouse also provides a variety of electronic services on the Internet. The Clearinghouse World Wide Web server can be accessed at: <http://www.ericse.org>.

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**U.S. Department of Education
Office of Educational Research and Improvement (OERI)**

P.O. Box 1398
Jessup, MD 20794-1398
1-(877) 4ED-PUBS
Fax: (301) 470-1244
Web: <http://www.ed.gov>

Provides information about education research, statistics, publications, and data sets.

Publishes a series of *Helping Your Child* books for parents. Included is *Helping Your Child Learn Geography*, which helps children look at the world in which they live, the effects of the environment on the way in which towns have developed, and the effects humans have had on the environment that have made areas livable. Other series topics include: *Science, Math, History, Reading, Using the Library, Get Ready for School, Succeed in School, Responsible Behavior, and Being Healthy and Fit*. All are available for a nominal fee. To obtain ordering instructions for all of the *Helping Your Child* books, write to Helping Your Child List, ED-PUBS, at the above address. Write to the above address to obtain the *OERI Bulletin*, a free quarterly listing of publications, programs, statistics, and grants.

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**U.S. Department of Energy
Argonne National Laboratory**

Division of Educational Programs
9700 South Cass Avenue
Argonne, IL 60439
(630) 252-4114
Fax: (630) 252-3193
E-Mail: hmyron@dep.anl.gov
Web: <http://www.dep.anl.gov>

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

Provides three continuing programs for kindergarten through grade 12 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 Educational Networking Consortium (ENC) is a training and Internet access organization that attempts to train and connect Chicago area teachers to the Internet using a collection of dial-in sites in collaboration with the Illinois State Board of Education; and (3) NEWTON, The Science Teachers Bulletin Board, offers a place where teachers and students can discuss education and ask questions of practicing scientists. The bulletin board can be reached by Telnet at newton.dep.anl.gov Web site for all three programs: <http://www.dep.anl.gov>. See section Science, Technology and Education – Precollege Programs. **134**

**U.S. Department of Energy
Bioenergy Feedstock Development Program**

Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6422
(423) 576-5132
Fax: (423) 576-8143
E-Mail: are@ornl.gov
Web: <http://www.esd.ornl.gov/bfdp>

A DOE-funded program that supports research, analysis, and communication activities to foster the development and adoption of alternative fuels.

Provides free information on biomass, specifically fast growing trees and grasses, for use as raw materials for conversion to transportation fuels and electricity. The information is in the form of fact sheets, reports, and bibliographies. A newsletter, *Energy Crops Forum*, is published periodically. In addition, a World Wide Web/Internet service, the Bioenergy Information Network, contains full text of many of the reports, newsletters, and fact sheets and provides pointers to other places with related materials. **135**

**U.S. Department of Energy
Bonneville Power Administration**

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

Bonneville Power Administration (BPA) 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 2,800 persons in Idaho, Montana, Oregon, and Washington. The majority work 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 in the BPA four-State service area. Various programs, which are available in some areas for teachers and students from primary school through high school, include math and science enhancements, hands-on learning, worksite mentoring and apprenticeships, competitions, environmental education, tutoring, and others. Educational materials loaned or given free of charge to teachers in BPA's service territory (Oregon, Washington, Idaho and Western Montana) include curricula, hands-on activities, and storybooks; posters; and videotapes. Topics covered are primarily electricity, energy conservation, and fish and wildlife. **136**

**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
(423) 574-0390
Fax: (423) 574-2232
E-Mail: cdiac@ornl.gov
Web: <http://cdiac.esd.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 reports and fact sheets, including a newsletter, *CDIAC Communications*, which describes CDIAC and DOE initiatives in global change research. *Trends Online: A Compendium of Data on Global Change*, a quick source of frequently requested data, is also available. *Global Change Acronyms and Abbreviations* is a publication providing a comprehensive listing of acronyms and abbreviations used in global change research, policy, and education settings. *Glossary: Carbon Dioxide and Climate* contains a glossary of CO₂-related terms and tables of information related to CO₂ and climate. These materials are suitable for middle school and high school students. All are free. A PC model on global energy - CO₂ emissions is also available. The *IEA/ORAU Long-Term Global Energy Economics Model with CO₂ and CH₄ Emissions* is a PC-version of a computer model package, suitable for high school and college students, with a number of variables to interactively produce CO₂ and CH₄ emission scenarios for 1975 through 2100. **137**

**U.S. Department of Energy
Clean Cities Hotline**
9300 Lee Highway
Fairfax, VA 22031
1-(800) CCITIES or (224-8437)
(703) 934-3068
Fax: (703) 934-3183
E-Mail: ccities@nrel.gov
Web: <http://www.ccities.doe.gov>

The Clean Cities Hotline, sponsored by DOE, provides information on the Clean Cities Program -- a voluntary and cooperative effort to promote alternative-fuel vehicles.

Provides implementation and technical information on the DOE's Clean Cities Program. Helps communities convert to alternative-fuel vehicles through coordination planning. Also provides general information on the Clean Cities Program, 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 on the Clean Air Act and Energy Policy Act. Remains in direct contact with the Clean Cities Program Directors, DOE regional offices, and involved Clean Cities. The Hotline is available between 9 a.m. and 6 p.m., Eastern standard time. The toll-free 800 number is available to callers in the United States only. **138**

**U.S. Department of Energy
Energy Efficiency and Renewable Energy Clearinghouse (EREC)**
P.O. Box 3048
Merrifield, VA 22116
1-(800) DOE-EREC or (363-3732)
Fax: (703) 893-0400
E-Mail: doe.erec@nciinc.com
Web: <http://www.eren.nrel.gov>

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

Provides information on renewable energy and energy-efficient technologies to consumers, teachers, and students. Maintains lists of organizations that will supply educators with energy-related booklets, audio-visual materials, software, bibliographies, project contacts, kits, and equipment. Publications suitable for primary school and secondary school students are available. Teachers and librarians may request activity lists, bibliographies, and background materials. Publications are free. **139**

**U.S. Department of Energy
Federal Energy Technology Center**

P.O. Box 10940
Pittsburgh, PA 15236-0940
(412) 386-4913
Fax: (412) 386-4152
E-Mail: wildman@fetc.doe.gov
Web: <http://www.fetc.doe.gov>

P.O. Box 880
Morgantown, WV 26507-0880
(303) 285-4348
Fax: (304) 285-4403
E-Mail: jcyzic@fetc.doe.gov
Web: <http://www.fetc.doe.gov>

A Federal fossil energy research facility.

The Federal Energy Technology Center (FETC) is one of the U.S. Department of Energy's major field organizations. FETC has two sites in Pittsburgh, PA and Morgantown, WV. FETC provides science-related educational kits, videos, and resource materials to local elementary schools. Check the above Web site for ordering information. FETC sponsors the West Virginia Regional Science Bowl and the Southwestern Pennsylvania Regional Science Bowl. Approximately ten science teachers spend four weeks at FETC learning about its research programs. The teachers in cooperation with the FETC staff, prepare lesson plans describing the research for use in science classes. FETC sponsors two-day multidisciplinary seminars covering energy and the environment. Check the above Web site for dates and registration. FETC scientists and engineers serve as math/science resource volunteers, teacher consultants, classroom lecturers, demonstrators or research advisors to teachers and students. **140**

**U.S. Department of Energy
Los Alamos National Laboratory**

Science Education Program Office
MS M700
Los Alamos, NM 87545
(505) 667-8680
Fax: (505) 665-6871
E-Mail: steinhaus@lanl.gov
Web: <http://www.education.lanl.gov>

A DOE-funded national laboratory.

Los Alamos National Laboratory offers 23 elementary through university level educational programs for students, teachers, and the public. They include teacher programs, students 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 Web site 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; (2) Risks, Rewards and Responsibilities, a curriculum module for high school teachers that uses the subject of radiation to look at the broader issue of risk assessment; and (3) *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; (4) *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. Other materials may be available from time to time, and are announced on the Web site. **141**

**U.S. Department of Energy
National Alternative Fuels Hotline**

9300 Lee Highway
Fairfax, VA 22031
1-(800) 423-1DOE or (423-1363)
(703) 934-3069
Fax: (703) 934-3183
E-Mail: hotline@afdc.nrel.gov
Web: <http://www.afdc.doe.gov>

The National Alternative Fuels Hotline (NAFH) is sponsored by DOE to assist the general public and interested organizations in improving their understanding about alternative transportation fuels.

Provides information on vehicle conversion technology, refueling station locations, and Federal alternative fuel programs. Free publications and data are available on alternative fuel technology, legislative and regulatory changes, and other issues concerning the alternative transportation fuel industry. In addition, NAFH works directly with the National Renewable Energy Laboratory's Alternative Fuel Data Center (AFDC). Data on vehicle emissions, performance, fuel economy, maintenance, and more are available through the AFDC. For more on alternative fuels and the AFDC, call NAFH's toll free number. **142**

**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: <http://www.eia.doe.gov>

NEIC is the 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; the *Electricity InfoCard*, featuring recent electricity data in graphic form; *Energy Education Resources: Kindergarten through 12th Grade*; and *Energy Information Sheets*, a booklet comprising one-page capsules on such energy topics as petroleum, natural gas, coal, and renewable energy; and primers on greenhouse gases, global climate change, natural gas prices, and electricity restructuring. All four products are available on EIA's World Wide Web site, which also features the EIA Kid's Page (www.eia.doe.gov/kids/); hundreds of links to other energy-related sites; an E-Mail subscription and notification service for EIA press releases and 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 data bases covering the various energy sources. **143**

**U.S. Department of Energy
National Low Level Waste Management Program**

EM-35/Cloverleaf
Office of Environmental Management
19901 Germantown Road
Germantown, MD 20874-1290
(301) 903-7177
Fax: (301) 903-7451

A Federal program providing both general and special technical assistance to States and regions to establish an effective nationwide system for the disposal of commercial low level radioactive waste.

Provides general information on low level radioactive waste management through short fact sheets, a booklet with answers to frequently asked questions on low level radioactive waste disposal, and brochures on what constitutes commercial low level waste; concepts for disposal of low level waste; and low level radioactive waste basics. **144**

**U.S. Department of Energy
National Renewable Energy Laboratory**

Education Programs
1617 Cole Boulevard, MS 1713
Golden, CO 80401
(303) 275-3044
Fax: (303) 275-3076
Web: <http://www.nrel.gov>
<http://www.nrel.gov/business/education.html>
<http://www.sandia.gov/ESTEEM/home.html>

A DOE-funded national laboratory specializing in renewable energy and energy efficiency research and technologies.

Supports kindergarten through grade 12 science education and undergraduate research focusing on energy efficiency and renewable energy. Manages and supports numerous local and national science programs for both students and teachers, including the Junior Solar Sprint, a program for students in grades 6 through 8 to design and build a model solar car. Also is a resource for teachers and students looking for information, project ideas, lessons and reference materials on renewable energy and energy efficiency topics. **145**

**U.S. Department of Energy
Office of Civilian Radioactive Waste Management**

National Information Center
600 Maryland Avenue, S.W., Suite 695
Washington, DC 20024
1-(800) 225-NWPA
(202) 488-6720
Fax: (202) 488-6721
Web: <http://www.rw.doe.gov>

A Federal program established to manage and dispose of the Nation's spent nuclear fuel and high level radioactive waste.

Furnishes a curriculum, *Science, Society, and America's Nuclear Waste*, to educators free of charge. The four-unit curriculum, designed for use in grades 8 through 12, contains materials for both students and teachers. Student materials include readings, review exercises, and activities. For teachers, supplemental teaching aids include video tapes, computer software, and viewgraphs. Also available is general information on the Civilian Radioactive Waste Management Program, including fact sheets, brochures, video tapes, and a semi-annual newsletter. All publications and video tapes are free upon request. **146**

**U.S. Department of Energy
Office of Nuclear Energy, Science and Technology**
19901 Germantown Road
Germantown, MD 20874
(301) 903-1633
Fax: (301) 903-1637
E-Mail: lyn.alperstein@hq.doe.gov
Web: <http://www.ne.doe.gov>

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

Offers energy educational materials, including historical and current factual data on nuclear energy. Pamphlets discuss such issues as the nuclear fuel cycle and civilian uses of nuclear energy. Available 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 a booklet listing nuclear power plants, with operating data, and an education video tape on nuclear power. All publications are free. **147**

**U.S. Department of Energy
Office of Scientific and Technical Information (OSTI)**
P.O. Box 62
Oak Ridge, TN 37831
(423) 576-8401
Fax: (423) 576-2865
Web: <http://www.osti.gov>

DOE OSTI collects, preserves, and disseminates the scientific and technical information resulting from the Department of Energy's research and development and environmental programs. The scientific and technical information produced through DOE and its predecessor agencies includes the bulk of recorded knowledge about nuclear energy and much about other forms of energy. OSTI also acquires domestic and international information through partnerships with U.S. agencies and over 110 countries and international organizations.

OSTI provides access to energy information primarily through online systems. Energy files (www.doe.gov/EnergyFiles) contains over 450 collections of energy-related information as well as tools to facilitate locating and using its resources. The Doe Information Bridge (www.doe.gov/bridge) provides access to over 40,000 fully-searchable full-text documents reporting the results of DOE-sponsored research. Both of these systems are made available to the public at no charge to the end user. **148**

U.S. Department of Energy
Pacific Northwest National Laboratory
 University and Science Education Programs
 P.O. Box 999, Mail Stop K1-72
 Richland, WA 99352
 (509) 375-2800
 Fax: (509) 375-2576
 Web: <http://www.pnl.gov/education>

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;
- ! 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

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U.S. Department of Energy
Western Area Power Administration
 P.O. Box 3402
 Golden, CO 80401
 (303) 275-1739
 Fax: (303) 275-1616
 E-Mail: buntin@wapa.gov
 Web: <http://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 the Energy Services Manager in any of the following cities: Billings, Montana, (406) 247-7392; Loveland, Colorado, (970) 490-7227; Phoenix, Arizona, (602) 352-2462; Sacramento, California, (916) 353-4490; and Salt Lake City, Utah, (801) 524-5506, or the Power Marketing Support Office in Golden, Colorado. **150**

**U.S. Department of the Interior
Bureau of Land Management (BLM)**

1849 C Street, N.W.
Washington, DC 20240
(202) 452-0378 (Minerals Outreach Coordinator)
(202) 452-5078 (Environmental Education)
Fax: (202) 452-0399
Web: <http://www.blm.gov/>

A regulatory agency responsible for the management of a wide variety of resources on public lands. These resources include wildlife habitat, recreational values, cultural and historic sites, scenic, and wilderness areas as well as more than 60 types of minerals produced from public lands.

Provides materials on energy and mineral resources found on Government-owned land. BLM has an active program for presentation of energy and minerals sciences, especially as they relate to the public lands. Exhibits may be arranged for professional functions or fairs. Presentations at local schools or youth gatherings can be arranged through any BLM office or through the Minerals Outreach Coordinator in Washington, DC. Demonstration areas showing preservation and reclamation techniques may be used as field trips for students. Also offers several videos on preservation of ecosystems and reclamation. Pamphlets, brochures, maps, fact sheets, environmental studies, and statistical summaries are available free upon request or for a minimal charge. BLM is also active in the preservation of old mining towns, and tours of these "ghost towns" may be arranged. BLM also has management responsibility for the Nation's newest national monument in Utah, the Grand-Staircase-Escalante. **151**

**U.S. Department of the Interior
Minerals Management Service (MMS)**
Office of Communications
1849 C Street, N.W.
Washington, DC 20240
(202) 208-3985
Fax: (202) 208-3968 or (202) 208-3918
Web: <http://www.mms.gov>

MMS is the regulatory agency responsible for managing the Nation's oil, natural gas, sand, gravel and other mineral resources on the Outer Continental Shelf, while balancing the need for the development of these resources with the protection of the coastal, marine and human environments. MMS is also responsible for the collection and distribution of revenues over \$4 billion annually from leasing and production of mineral resources from the Outer Continental Shelf and onshore Federal and Indian lands.

Provides informational materials on gas, oil, mineral, and environmental resources in the ocean. Available materials include color posters, brochures, fact sheets, statistical summaries, technical reports, newsletters, environmental studies, and professional papers. Most material is free upon request and/or available directly from the MMS Web site above. Most information is suitable for upper grade levels. Offices in Washington, DC; New Orleans, Louisiana; Camarillo, California; and Anchorage, Alaska, can arrange for presentations at local schools on the work conducted at MMS and on geology, environmental science, engineering, resource management, international activities, and related topics. MMS professionals have worked with schools to develop their energy and environmental resources curricula and comprehensive teacher's guides are available. Call or write to the above address or check out the MMS Web site for information. **152**

U.S. Environmental Protection Agency (EPA)
Information Resources Center, 3404
401 M Street, S.W.
Washington, DC 20460
(202) 260-5922
Fax: (202) 260-6257
E-Mail: public-access@epamail.epa.gov
Web: <http://www.epa.gov>

Information Resources Center for EPA. Responds to public inquiries about environmental issues and EPA programs. Also serves as the main referral point for the Agency.

Provides limited free material on drinking water, air quality, pesticides, radon, indoor air, Superfund, wetlands, and other environmental topics, to walk-in visitors. Will order documents to be mailed directly to callers. **153**

Videodiscovery, Inc.

1700 Westlake Avenue N., Suite 600
Seattle, WA 98109-3012
1-(800) 548-3472
(206) 285-5400
Fax: (206) 285-9245
E-Mail: djclark@videodiscovery.com
Web: <http://www.videodiscovery.com>

An educational software publisher.

Developer and publisher of multimedia programs for kindergarten through college-level science education. Specifically, the company publishes interactive science videodiscs, CD-ROMs, and computer software, such as *STS Science Forums*; *Understanding Earth*; *Chemistry at Work*; *Science Sleuths*; and *Physics at Work*. The company is dedicated to improving science instruction through the advancement of educational technologies. A free catalog of products is available upon request. **154**

Water Environment Federation

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

A not-for-profit technical and educational group of water quality experts with more than 41,000 members located in all 50 States and around the world.

Publishes *The Water Sourcebook*, with over 60 hands-on classroom activities; the *Water Environment Curriculum Program*, including units on wastewater (also available in Spanish), surface water, groundwater (also available in Spanish) and water conservation. 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. **155**

Waverly Light and Power

1002 Adams Parkway
P.O. Box 329
Waverly, IA 50677
(319) 352-6251
Fax: (319) 352-6254
Web: <http://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. **156**

Westinghouse Electric Company

Communications Department
P.O. Box 355, Bay E575
Pittsburgh, PA 15230-0355
(412) 374-6803
Fax: (412) 374-3272
E-Mail: kendrilm@westinghouse.com
Web: <http://www.westinghouse.com>

A company dedicated to providing high quality products, services, technology, systems, and management in nuclear energy, as well as advanced energy and process control systems.

Provides energy-related materials to all who are interested, especially to teachers and to students who will make our energy decisions in the future. One copy of each booklet is available free of charge. However, for larger quantities, there is a fee. Materials available are: a simulated uranium fuel pellet; *Electricity from Nuclear Energy*; *Nuclear Energy Glossary*; *Questions Kids Ask About Energy*, *Radiation Booklet*; and Component Illustrations (color prints). For more information, you may contact the Communications Department of the Westinghouse Electric Company. **157**

Wisconsin Public Service Corp.

600 N. Adams
P.O. Box 19002
Green Bay, WI 54307-9002
(920) 433-5543
Fax: (920) 433-5741
E-Mail: sbostedt@wpsr.com
Web: <http://www.wpsr.com>

Provides electricity, natural gas, and energy products to more than 400,000 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, nuclear, and hydroelectric generating plants and have 19 customer centers throughout our service territory.

Provides a wide array of free energy-related videos, presentations, publications, and teaching kits to educators, kindergarten through grade 12 students, and community groups **in the WPS service area**. Our materials emphasize safety, energy management, environment, and renewable energy. Other services include tours, scholarships for teachers and students, school-to-work opportunities, speakers bureau, teacher workshops, and electric car demonstrations. Write or call to receive a complete list of our education programs.

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