



Climate Change Resources: Tools

Listing of this information is intended as a resource and does not imply endorsement by EPA.

ORGANIZATION
PRODUCT
MEDIUM
PRICE
ORDERING INFORMATION

Center for Renewable Energy and Sustainable Technology (CREST)
"The Green Home CD-ROM"
CD-ROM
\$45

SUMMARY

Call CREST at 888-442-7378, or visit the CREST website at <http://solstice.crest.org/software-central/index.shtml>
"The Green Home CD-ROM" is about a new "green" way of building and operating your home ... a way that reduces utility bills, saves energy and water, reduces pollution, minimizes the release of hazardous materials into the environment, and makes your home safer, healthier, quieter, and more comfortable. The CD-ROM includes a three-dimensional walk-through of a green home, hundreds of screens of environmental information (a green home library), actions you can take right now to make your home greener, interactive calculations and exercises, and digital videos from a Planet Neighborhood public television series.

ON-LINE AVAILABILITY

WETA-TV has an Internet site (www.pbs.org/weta/planet/) dedicated to Planet Neighborhood, including some material from CREST's CD-ROM.



ORGANIZATION
PRODUCT
MEDIUM
PRICE
ORDERING INFORMATION

Center for Renewable Energy and Sustainable Technology (CREST)
"Federal Greening Initiatives"
CD-ROM
\$15

SUMMARY

Call CREST at 888-442-7378, or visit CREST's website at <http://solstice.crest.org/software-central/index.shtml>
This CD-ROM documents six showcase "greening" projects in federal facilities and contains information about programs and services of the Federal Energy Management Program. The audience for this CD-ROM is energy managers and members of the public who want to learn about environmentally and economically successful federal programs and the resources available to assist in such projects.

ON-LINE AVAILABILITY

N/A



EPA'S STATE AND LOCAL CLIMATE CHANGE PROGRAM

ORGANIZATION Center for Renewable Energy and Sustainable Technology (CREST)

PRODUCT MEDIUM PRICE ORDERING INFORMATION "The Sun's Joules"
CD-ROM
\$40

SUMMARY Call CREST at 888-442-7378, or visit CREST's website at <http://solstice.crest.org/software-central/index.shtml>

"The Sun's Joules" is a comprehensive educational CD-ROM on renewable energy for high school students. It contains around 1,000 screens of text and graphics, dozens of digital videos, interactive exercises, an energy glossary, a list of renewable energy Internet resources, and a detailed index. The new release of "The Sun's Joules" includes "School Energy Doctor" software, which walks students through an energy and water audit of their school facilities.

ON-LINE AVAILABILITY An on-line version of "The Sun's Joules" is available on Solstice at <http://solstice.crest.org/renewables/SJ/>. The Internet version does not include digital videos, interactive exercises, or information updates that have been made since version 1.0 was released.

ORGANIZATION Center for Renewable Energy and Sustainable Technology (CREST)

PRODUCT MEDIUM PRICE ORDERING INFORMATION "Greening of the White House"
CD-ROM
\$25

SUMMARY Call CREST at 888-442-7378, or visit CREST's website at: <http://solstice.crest.org/software-central/index.shtml>

The "Greening of the White House" CD-ROM, produced by CREST in association with the White House, the U.S. Department of Energy's Federal Energy Management Program, American Institute of Architects, View By View, Inc., and Rocky Mountain Institute, documents energy and environmental upgrades at the White House launched in 1993. The CD-ROM also has extensive information about what you can do in your own home to make it healthier, more energy efficient, less expensive to operate, and less damaging to the environment. Several interactive exercises help you learn about energy and environmental technologies and practices, and 22 digital videos give an in-depth view of the White House upgrades. More than 20 organizations, compa-

nies, and government agencies contributed to the content of the CD.

ON-LINE AVAILABILITY An on-line version of the "Greening of the White House" is available on Solstice at: <http://solstice.crest.org/environment/gotwh/>. The Internet version is not as up-to-date as the CD-ROM version and does not include most of the interactive activities or any of the digital videos.

ORGANIZATION Center for Renewable Energy and Sustainable Technology (CREST)

PRODUCT MEDIUM PRICE ORDERING INFORMATION "School Energy Doctor"
CD-ROM
\$15

SUMMARY Call CREST at 888-442-7378, or visit CREST's website at: <http://solstice.crest.org/software-central/index.shtml>

The "School Energy Doctor" is a multimedia production designed to lead high school students through a water and energy audit of their school. It provides students with easy calculations showing how efficiency and renewable energy can save energy, water, and money as well as reduce pollution right at their school. This program is designed as a companion to "The Sun's Joules," a CD-ROM multimedia encyclopedia on renewable energy.

ON-LINE AVAILABILITY The "School Energy Doctor" website is on Solstice at: <http://solstice.crest.org/efficiency/sed/>. The website has information about the "School Energy Doctor," updates for earlier versions of the software, and a discussion group for schools to share their experiences using the program.

ORGANIZATION Center for Renewable Energy and Sustainable Technology (CREST)

PRODUCT MEDIUM PRICE ORDERING INFORMATION "The Energy Efficiency Connection"
CD-ROM
\$15

SUMMARY Call CREST at 888-442-7378, or visit CREST's website at: <http://solstice.crest.org/software-central/index.shtml>

"The Energy Efficiency Connection" is a set of tools for saving money and preventing pollution in your home or business. It contains two software packages, "Home Energy Checkup" and "Business Energy Checkup," which show you through a set of

EPA'S STATE AND LOCAL CLIMATE CHANGE PROGRAM

quick inputs on how much energy and money you can save at your home or business. It also comes linked to the EPA ENERGY STAR® Building manual on the Internet, which provides an in-depth review of the steps you can take to put to work what you learn in "Business Energy Checkup."

ON-LINE AVAILABILITY

On-line versions of "Home Energy Checkup" and "Business Energy Checkup" are available on the Alliance to Save Energy website at: <http://www.ase.org/checkup/home/> and <http://www.ase.org/checkup/business/>. "Home Energy Checkup" and "Business Energy Checkup" may be downloaded at no charge from: <http://www.ase.org/checkup/download.html>



ORGANIZATION

Center for Renewable Energy and Sustainable Technology (CREST)

PRODUCT MEDIUM PRICE

"Community PV"
CD-ROM
\$19.95

ORDERING INFORMATION

Call CREST at 888-442-7378, or visit CREST's website at: <http://solstice.crest.org/software-central/index.shtml>

SUMMARY

This educational software provides information on utility photovoltaics programs in North America and around the world that are benefitting businesses, homes, schools, and communities. The software describes dozens of successful projects and includes a special "solar town meeting" where you can hear different community members talking about photovoltaics. The software also includes a multimedia introduction to PV technology. Included on this CD-ROM are a demonstration version of "SolarSizer," PV sizing software produced by CREST, and "Schools Going Solar," a report by the Utility Photovoltaics Group.

ON-LINE AVAILABILITY

N/A



ORGANIZATION

Illinois Department of Natural Resources, Illinois Task Force on Global Climate Change

PRODUCT MEDIUM PRICE

"Global Climate Change Wheel"
Paper cut-out available on the Internet

ORDERING INFORMATION

Free
N/A

SUMMARY

Do you know what you can do to limit the harmful effects of climate change? Do you know what the emission sources of greenhouse gases are? Print these pages out to create your own Global Climate Change Wheel.

ON-LINE AVAILABILITY

<http://dnr.state.il.us/orep/inrin/eq/iccp/wheel.htm>



ORGANIZATION PRODUCT

ABCNEWS.com
"Global Warming Solutions, Big and Small: What Can Be Done?"

MEDIUM PRICE ORDERING INFORMATION SUMMARY

A clickable house on the Internet
Free

N/A

How many light bulbs does it take to change a planet? When it comes to energy efficiency, the little things add up quickly. What you do at home may help cut greenhouse gas emissions. Click in the rooms in this clickable house to learn more. (Data from U.S. Department of Energy)

ON-LINE AVAILABILITY

http://abcnews.go.com/sections/world/warming/warming_solutions.html



ORGANIZATION PRODUCT

Environmental Defense Fund
"Add Up Your Carbon Dioxide Emissions"

MEDIUM PRICE ORDERING INFORMATION SUMMARY

A game available on the Internet
Free

N/A

According to this site, U.S. citizens release an average of about 40,000 pounds of carbon dioxide emissions per person every year. Do you want to find out your average annual emissions of carbon dioxide? Answer each question by entering a number.

ON-LINE AVAILABILITY

<http://www.enviroweb.org/edf/games/yourscore/yourscore2.html>



ORGANIZATION PRODUCT

Environmental Defense Fund
"Twenty Things You Can Do"

MEDIUM PRICE ORDERING INFORMATION SUMMARY

A game available on the Internet
Free

N/A

If you do this (fill in the blank), the carbon dioxide you can save is this (answer pops up when you click on empty box).

EPA'S STATE AND LOCAL CLIMATE CHANGE PROGRAM

ON-LINE AVAILABILITY

<http://www.enviroweb.org/edf/games/whatcan/index.html>



ORGANIZATION PRODUCT MEDIUM

United States Geological Survey (USGS)
"Teacher's Guide"
Learning tools available on the Internet

PRICE ORDERING INFORMATION SUMMARY

Free
N/A
The global change section of the Learning Web (USGS Internet section) consists of an introduction and five activities. Four themes are introduced: time, change, cycles, and earth as home. Each of the five activities includes background material, an experiment, suggestions for further reading, and extensions. The activities are "Time and Cycles" (for grades 4-6), "Change and Cycles" (for grades 4-6), "Mud Fossils" (for grades 1-3), "Geologic Age" (for grades 7-12), and "Earth as Home" (for grades 4-6).

ON-LINE AVAILABILITY

<http://www.usgs.gov/education/learnweb> Click on "Changing World."



ORGANIZATION

National Oceanic and Atmospheric Administration (NOAA)

PRODUCT

"A Paleo Perspective on Global Warming"

MEDIUM

Paleoclimatology slide sets available on the Internet

PRICE ORDERING INFORMATION SUMMARY

Free
N/A
NOAA's Paleoclimatology Program is working with scientists from around the world to study past climate in hopes of achieving a better understanding of the Earth's climate of today and that of the future. This site was developed to highlight the importance of paleoclimate research, as well as to show how paleoclimate research relates to global warming and other important issues regarding climate variability and change.

ON-LINE AVAILABILITY

<http://www.ngdc.noaa.gov/paleo/globalwarming/home.html>



ORGANIZATION

National Oceanic and Atmospheric Administration (NOAA)

PRODUCT

"Educational Slide Project"

MEDIUM PRICE ORDERING INFORMATION

Sets of science education slides
Each set is \$25

SUMMARY

Order online at <http://www.ngdc.noaa.gov/paleo/slideorder.html>
Each set of 20-40 slides includes vivid photographs of field research conducted around the globe, high-quality graphics of important datasets, and descriptive diagrams, making the sets ideal instructional aids. These materials are appropriate at the college level. Included is a narrative that is designed to accompany the slides, a bibliography, and a vocabulary list. Slide sets offered are:

- "Coral Paleoclimatology" (natural recorders of interannual climatic variability in the tropical oceans and seas)
- "Coral Paleoclimatology" (high school version)
- "Heinrich Events" (marine records of abrupt climate changes in the late Pleistocene)
- "Low-Latitude Ice Cores" (high-resolution records of climatic change and variability in the tropics and subtropics)
- "Polar Ice Cores" (records of climatic change and variability from the ends of the Earth)
- "Tree Rings" (ancient chronicles of environmental change)

ON-LINE AVAILABILITY

<http://www.ngdc.noaa.gov/paleo/slideorder.html>



ORGANIZATION

University Corporation for Atmospheric Research

PRODUCT

"Climate Change and Its Causes, Part 1"

MEDIUM

Set of slides

PRICE

Unavailable

ORDERING INFORMATION

Order online at <http://www.dir.ucar.edu/iss/dmc/order.html>

SUMMARY

This set of 20 slides illustrates methane sources, methane research, pollution from biomass burning, and pollution from agriculture.

ON-LINE AVAILABILITY

<http://www.dir.ucar.edu/iss/dmc/300-320.html>



ORGANIZATION

University Corporation for Atmospheric Research

PRODUCT

"Climate Change and Its Causes, Part 2"

MEDIUM

Set of slides

EPA'S STATE AND LOCAL CLIMATE CHANGE PROGRAM

PRICE Unavailable

ORDERING INFORMATION Order online at <http://www.dir.ucar.edu/iss/dmc/order.html>

SUMMARY This set of 20 slides illustrates methane sources, methane research, tree ring research, and monitoring of naturally occurring methane.

ON-LINE AVAILABILITY <http://www.dir.ucar.edu/iss/dmc/321-399.html>



ORGANIZATION PRODUCT American Forests
"Growing Greener Cities: A Tree Planting Handbook"

MEDIUM PRICE Book
\$7.95

ORDERING INFORMATION Call American Forests at 202-955-4500.

SUMMARY A simple guide for selecting, planting, and caring for trees, "Growing Greener Cities" is a useful resource for community leaders, teachers, and any individual interested in planting trees in their community. Includes easy directions for designing an attractive planting plan that can save money and protect the environment. 126 pages.

ON-LINE AVAILABILITY <http://www.amfor.org/> Click on "News and Publications."



ORGANIZATION PRODUCT American Forests
"Growing Greener Cities: Environmental Education Guide"

MEDIUM PRICE School lesson guide
\$13.95

ORDERING INFORMATION Call American Forests at 202-955-4500.

SUMMARY Containing 13 lessons for elementary and secondary school students, this education guide is a companion to "Growing Greener Cities: A Tree Planting Handbook." Includes activities, vocabulary list, and game cards. 60 pages.

ON-LINE AVAILABILITY <http://www.amfor.org/frames.shtml?pubs/pubpage.html>



ORGANIZATION PRODUCT American Forests
"State of the Urban Forest Report"

MEDIUM PRICE Book
\$12

ORDERING INFORMATION SUMMARY Call American Forests at 202-955-4500. Healthy cities should have an overall tree canopy cover of 40 percent to ensure their ecological, economic, and social sustainability. That's the finding of this report, which assessed the trends and health of urban forests in Atlanta, Austin, Baltimore, and Milwaukee. Also details quantifiable benefits for each of the four cities' urban forests in terms of air quality and stormwater management. The "State of the Urban Forest Report" shows that urban forests provide more than \$400 billion in stormwater runoff reduction benefits nationwide, and that those benefits can be increased by \$100 billion if cities increase average tree canopy cover to 40 percent. 28 pages.

ON-LINE AVAILABILITY <http://www.amfor.org/frames.shtml?pubs/pubpage.html>



ORGANIZATION PRODUCT American Forests
"Building Greener Neighborhoods: Trees as Part of the Plan"

MEDIUM PRICE Book
\$11.95

ORDERING INFORMATION Call American Forests at 202-955-4500.

SUMMARY A book for urban foresters, builders, developers, city planners, landscape architects, and others who want to know how to protect trees during the construction process. Written by the National Association of Home Builders and American Forests, "Building Greener Neighborhoods" is an excellent technical guide that includes examples of successful projects and compelling financial reasons for retaining trees during new development. 118 pages.

ON-LINE AVAILABILITY <http://www.amfor.org/frames.shtml?pubs/pubpage.html>



ORGANIZATION PRODUCT American Forests
"Urban Ecosystem Analysis Reports" Report

MEDIUM PRICE \$50 for color, \$25 for black and white

ORDERING INFORMATION Call American Forests at 202-955-4500.

SUMMARY Full report, graphics, and findings for each of the cities where American

EPA'S STATE AND LOCAL CLIMATE CHANGE PROGRAM

Forests conducted an Urban Ecosystem Analysis. Each report reveals regional vegetation trends over time, determined from analysis of satellite data. Also included are 10-20 small site analyses at a neighborhood scale, with full color maps of tree canopy and findings for dollar savings derived from on-site vegetation. Tree benefits including stormwater runoff reduction, carbon sequestration, energy savings, and air pollution mitigation, are quantified in each study area. 35-40 pages with extensive color graphics. Specify city when ordering. Cities available are Atlanta; Austin; Baltimore; Dade County; Fort Lauderdale; Marlborough, Massachusetts; Milwaukee; Chesapeake Bay, Maryland (Lower Western Shore—riparian buffer analysis only for \$12); and Puget Sound, Washington.

ON-LINE AVAILABILITY

<http://www.amfor.org/frames.shtml?pubs/pubpage.html>



ORGANIZATION

American Forests

PRODUCT

"CITYgreen"

MEDIUM

Software

PRICE

\$825

ORDERING INFORMATION

Call American Forests at 202-955-4500.

SUMMARY

"CITYgreen" measures the economic benefits of trees in urban settings, estimating the dollar value of ecosystem

services such as stormwater runoff reduction, energy conservation, and air pollution reduction. A Geographic Information Systems (GIS) tool for local government professionals and conservationists, CITYgreen operates on a Pentium personal computer with Windows and ArcView GIS software.

ON-LINE AVAILABILITY

<http://www.amfor.org/frames.shtml?pubs/pubpage.html>



ORGANIZATION

U.S. Environmental Protection Agency, Region 10

PRODUCT

"Sustainability: Holistic Perspectives for the Next Century"

MEDIUM

CD-ROM

PRICE

Free

ORDERING INFORMATION

Call Anne Dalrymple, Director, Sustainable Communities Program, U.S. EPA, Region 10 at 206-553-0199.

SUMMARY

This presentation contains a series of charts and graphs illustrating climate change basics (e.g., emissions, ice core data, carbon sequestration, sea level rise, etc.), and is accompanied by a narration. The CD also provides links to more climate change information.

ON-LINE AVAILABILITY

N/A