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February 15, 2000

MEMORANDUM

TO: LORETTA UCELLI

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FROM: ELLIOT DIRINGER

SUBJECT: EARTH DAY 2000

This memo outlines current planning on Administration events, announcements, and materials related to Earth Day. We will continue to refine this strategy as we receive feedback from OVP, other White House offices, and the agencies.

OBJECTIVES

This year marks the 30th anniversary of Earth Day, a milestone that may focus more media attention on environmental issues than at any other time in recent years. (Time plans a special international Earth Day issue, ABC plans a prime-time Earth Day special on global warming, and CNN plans extensive live coverage of Earth Day activities.) Our objective is to use this opportunity to highlight the Administration's environmental accomplishments, and to advance our policy goals through one or more high-profile announcements, particularly in the areas of climate change (the environmental community's primary Earth Day theme) and land protection.

EARTH DAY REPORT

CEQ is producing, with agency assistance, a report summarizing environmental accomplishments and progress over the course of this Administration. This could be a report either from George Frampton to the President and the Vice President, or from the President and Vice President to the American people.

The bulk of the report will be Administration accomplishments organized by major theme – protecting natural treasures, ensuring public health, building sustainable communities, etc. Each section will include charts and graphs depicting measures of progress (i.e. number of Americans getting safe drinking water or breathing clean air) and text-and-photo boxes with local success stories. We plan 32-40 pages with a color cover.

The report will help frame press coverage and ensure that the Administration's record is reflected in "30-years-after-the-first-Earth-Day" stories. It will be distributed to media at least a week before Earth Day and will be part of press packets for White House and Cabinet events.

POTUS/VPOTUS EVENTS

Depending on scheduling and policy development, we anticipate up to four events with the President and/or Vice President before and on Earth Day. Possibilities include:

Meeting with Auto CEOs – There are tentative plans for a meeting and/or event on March 30 to highlight the latest successes of the Partnership for a New Generation of Vehicles: prototype hybrid cars that get better than 70 miles per gallon. We could also push Congress to enact our proposed tax credit for fuel-efficient cars and announce a new Executive Order to improve fuel economy in the federal fleet. In addition, we are exploring ways to frame a new "challenge" to the auto industry to move faster to improve fuel economy in all new cars.

Land Protection Announcement – Scheduling is holding April 15 for POTUS travel to announce new action to protect a place TBD.

Power Plant Announcement – Scheduling is holding April 17 for a second POTUS event. If the policy process is complete, the likely announcement would be an Administration proposal to close the loophole that allows "grandfathered" power plants to continue emitting far more air pollution than newer plants. This would address both public health and climate change.

Earth Day Rally on the Mall – The major U.S. event on Earth Day will be a rally on the Mall expected to draw as many as 1 million people and extensive media coverage. Participation by the President and/or Vice President should be considered.

RADIO ADDRESS

Earth Day falls this year three days after the start of Passover and one day before Easter. One possibility, either on Earth Day or the week before, is to focus the President's weekly radio address on the rich connections between religious tradition and environmental protection.

A growing number of religious organizations are working to promote better "stewardship" of the environment. For instance, the National Religious Partnership for the Environment, which

includes groups such as the National Council of Churches and the U.S. Catholic Conference, plans a mass mailing next month to raise awareness on climate change. We plan to meet soon with religious leaders to find out more about their plans and to better acquaint them with the Administration's environmental efforts.

CABINET/SUB-CABINET EVENTS

We and Cabinet Affairs will be working with the agencies to coordinate Cabinet and sub-Cabinet participation in events across the country throughout the week leading up to Earth Day. We anticipate that some will stage their own events and others will join events planned by local environmental groups.

While we will suggest they focus message on climate change and land protection, we also will encourage agencies to play to their strengths and go with the best announcements possible. For instance, DOI might do Lands Legacy and DOE climate, while EPA does public health and HUD livable communities. The unifying theme will be the Administration's record of accomplishment.

We will provide talking points and a list of Earth Day events being planned around the country. We plan a meeting with agency representatives later this week to begin organizing.

OUTREACH TO EDITORIAL WRITERS, COLUMNISTS, AND OPINION LEADERS

We plan broad distribution of the Earth Day report and press paper on any POTUS/VPOTUS announcements. We will try to get the report to editorial writers at the top 100 papers at least a week before Earth Day and follow up by phone, and will encourage the agencies to work regional editorial boards. We also will get the report to top columnists and television commentators who have shown an interest in the environment and, depending on the level of interest, can schedule roundtables or conference calls. In addition, we may try to place op-eds, and encourage op-eds by outside validators, citing our pre-Earth Day announcements as the latest in a string of major environmental accomplishments.

WEB SITE

We plan to post the Earth Day report and press paper on the Web (either on the CEQ site or on a special White House Earth Day site), and will consider posting a schedule of Cabinet activities and linking to agency sites. We will work with the White House web team to explore other possibilities, including a direct link from the White House home page.

Festival of God's Creation Sunday Resource

An eight-page resource has been prepared to help you celebrate Festival of God's Creation Sunday. It contains bulletin inserts, worship materials and background information. It can be ordered from The Ministry of God's Creation at 202-488-5644. The price is \$.75 each for 1 to 19 copies; \$20 each for twenty or more.

The resource is also available without cost on the Internet at: <http://www.nmc-nbcs.org>.

Energy Stewardship Congregations

A growing number of congregations are attempting to be good stewards of God's creation by reducing their use of energy. One way to use less energy is to make your facilities more energy efficient by taking measures such as: using compact florescent bulbs instead of incandescent bulbs, doing an energy audit, installing programmable thermostats and light sensors, etc.

For more information, call the Energy Stewardship Congregation program (formerly known as the Energy Star Congregation program) at 800-288-1346. This is a project of the Eco-justice Working Group of the National Council of the Churches of Christ.

Ministry of God's Creation
United Methodist Board of Church & Society
100 Maryland Ave. NE
Washington, DC 20002

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Festival of God's Creation Sunday 2000

Good Stewards of God's Gift of Energy
A Resource for Celebrating Creation Sunday for 2000

A Message to United Methodists on Celebrating God's Creation

This United Methodist General Conference in 1996 called for the celebration of a "Festival of God's Creation." And then we have lived every day for God's good creation and our redemption through Jesus Christ, the "Festival of God's Creation" gives United Methodists another way to remember God's creation.

This year many people in the US will celebrate the 30th anniversary of Earth Day. Unfortunately, that anniversary April 22nd comes between Good Friday and Easter. So we are urging United Methodists to celebrate the Festival of God's Creation on April 30th, the week after Easter.

This year's celebration focuses on the gift of energy—wind, water, fossil fuels, etc. All of God's gifts are given to be used responsibly. We must not use the gift of energy well. Our wasteful use of energy, and the pollution the earth and contributes to global warming.

Still, God promises to heal and calls us to participate in the restoration of Creation. When we use energy wisely, we can reduce the use of energy that contributes to global warming and climate change. We can be good stewards of God's creation.

Ministry of God's Creation
United Methodist Board of Church & Society
100 Maryland Ave. NE
Washington, DC 20002

For more information, call the Energy Stewardship Congregation program (formerly known as the Energy Star Congregation program) at 800-288-1346. This is a project of the Eco-justice Working Group of the National Council of the Churches of Christ.

bulletin insert and information on
stewardship resources for the Festival of

Becoming Faithful Energy Stewards

For the creation waits with eager longing for the revealing of the children of God... in hope that the creation itself will be set free from its bondage to decay and will obtain the freedom of the glory of the children of God. (Romans 8:19-21)

CALLED TO "TEND AND KEEP"

The Bible tells us that on each day of creation God saw that all was "good" and on the last day that it was "very good". Indeed, according to Genesis 9:10, God has established a covenant "with every living creature" and with the earth itself (Genesis 9:13).

The biblical word "covenant" implies mutual trust and responsibility, and describes the special relationship between God and all creation. Humankind has been given an important role in this covenant relationship. God calls us to "tend and keep" this garden call Earth (Genesis 9:13).

"THE LAND MOURNS"

But we all know that we have not always been faithful partners in this covenant. In our sinfulness, we have hurt each other and the rest of creation. The biblical prophet Hosea warned that as a consequence of human disobedience and selfishness "the land mourns and... even the fish of the sea are perishing" (Hosea 41-3).

Today we are recognizing in new and alarming ways the truth of the prophet's warning. Most climate scientists now agree that our increasing over consumption of fossil fuel has led to climate change.

Consider these facts:

- Each year we are pumping nearly seven billion tons of heat-trapping carbon into atmosphere.
- The eleven hottest years on record have all occurred since 1980.

2500 of the world's leading atmospheric scientists agree that global warming has already begun. They warn that if we do not curb automotive and power plant emissions of global warming pollution, we will change the climate, triggering more extreme weather, floods and droughts that would damage croplands and forests, deadly heat waves, a rise in the sea level that would flood coastal areas, and severely affect human, animal and plant health and survival.

A FAITHFUL RESPONSE

Christians believe that God heals what human beings have broken and calls people of faith to participate in the restoration of creation. When we use less energy in our homes and churches and use it more efficiently, and when we move away from our reliance on fossil fuels and use instead more renewable energy sources, we point to and participate in God's healing of creation. Though it may be too late to prevent climate change, we can design policies and take actions to slow it down.

WHAT CAN YOU DO?

→ **Become an "Energy Stewardship Congregation":**

Examine your congregation's and your own individual energy consumption. Your church can make a commitment to use less energy and to make your building more energy efficient.

* For more information on the "Energy Stewardship Congregation" program call 1-800-288-1346.

→ **At home and at church:**

- ♦ use compact fluorescent light bulbs;
- ♦ tune-up your heating and air conditioning systems;
- ♦ invest in office equipment that is labeled Energy Star;
- ♦ install programmable thermostats and sensors on lighting;
- ♦ buy the most efficient model furnaces and air conditioners and correctly "size" them to your needs.

→ **Walk, bike, and use public transportation whenever possible.**

→ **Encourage your local, state, and national elected officials to endorse a "Clean Energy Agenda"**

which would include:

- ♦ clean power
- ♦ clean cars
- ♦ clean air
- ♦ clean investments

* For more information about the "Clean Energy" Agenda, go to "Web of Creation" at: www.webofcreation.org/NCC/CleanEnergyAgenda.html.

A Climate Change Information and Strategy Packet is available without cost by calling 1-888-9climate. It includes *It's God's World: Christians, Care for Creation and Global Warming* - a five session Bible study for congregations.

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On the Mall in Washington



Leonardo DiCaprio to Host EarthFair 2000 on the Mall in Washington, D.C. April 22, 2000

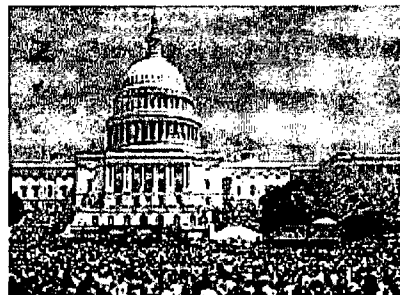
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In celebration of Earth Day, April 22, 2000, thousands of communities around the world will host a wide variety of events. In the United States, the flagship event will be a huge gathering on the Mall in Washington, D.C. During a webcast on November 17, 1999, Earth Day Network announced that one of the nation's most popular celebrities, actor Leonardo DiCaprio, will serve as chairman for the Mall event.

A solar-powered stage will feature additional international entertainment and top musical acts from the U.S. Along with the entertainment, Earth Day Network will host EarthFair 2000 on the Mall -- hundreds of exhibits displaying all the elements of a sustainable society. Sun, wind, earth, water, and people will be powering exhibits, modeling central components of a clean energy future.

Each of the energy technology "pavilions" will feature hands-on activities, many involving children's activities, and opportunities for direct action. EarthFair 2000 will also recycle its trash, use clean, alternative energy, and demonstrate other ways to have a sustainable event as well as a sustainable world. We will provide visitors with examples of how to make a difference in their home, at work, everyday. ([See Materials for EarthFair 2000 Exhibitors.](#))

There will be thousands of other events, some involving hundreds of thousands of people, from coast to coast and around the world. Big Earth Day events are planned for cities including London, New York, Tokyo, Los



Earth Day 1990 on the Mall

Angeles, Seoul, Chicago, Beijing, Atlanta, Tel Aviv, Boston, Manila and San Diego. In all, half a billion people around the world will participate in Earth Day 2000. [Find an event](#) in your community and get involved!

Materials for EarthFair 2000 Exhibitors

Here's all the information you need to be an exhibitor for EarthFair 2000 on the Mall. Exhibitors must complete and return the following forms to Earth Day Network by March 15:

- [Application for EarthFair 2000 Exhibit Space](#)
- [Media Form for Exhibitors](#)
- [Passport Advertising for Exhibitors](#)
- [Clean Energy Agenda Endorsement Form](#)

Please also carefully read the following:

- [EarthFair 2000 Background](#)
- [EarthFair 2000 Guidelines](#)

If you need to contact us regarding EarthFair 2000:

Earth Day Network 2000
91 Marion St.
Seattle, WA 98104
USA

Fax: 1 (206) 682-1184
Email: earthday@earthday.net

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Here are the events currently scheduled for cities in **Alabama**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

- Where:* [Birmingham](#) -- 4/9/00
Event Name: [Earth Day at the Gardens](#)
Sponsor/Organizer: [Alabama Wildflower Watch](#)
- Where:* [Fairhope](#) -- 4/22/00
Event Name: [Bay Area Earth Day](#)
Sponsor/Organizer: [Environmental Coalition of Baldwin County](#)
- Where:* [Florence](#) -- 2/25/00
Event Name: [30 Hour Famine](#)
Sponsor/Organizer: [Power Planet!](#)
- Where:* [Huntsville](#) -- 4/22/00
Event Name: [Recycled Art Contest & Exhibition](#)
Sponsor/Organizer: [Recycled Art Contest & Exhibition](#)
- Where:* [Tuscaloosa](#) -- 4/16/00
Event Name: [Earthfest](#)
Sponsor/Organizer: [U Alabama - Alabama Environmental Council](#)



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Where: [Kodiak](#) -- 4/21/00

Event Name: [Earth Day 2000](#)

Sponsor/Organizer: [Alaska Youth for Environmental Action](#)

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Here are the events currently scheduled for cities in **Arizona**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Flagstaff](#) -- 4/22/00
Event Name: [Grand Canyon Forest Festival](#)
Sponsor/Organizer: [Grand Canyon Forest Partnership](#)

Where: [Scottsdale](#) -- 4/20/00
Event Name: [Scottsdale Kids Growing-up Green](#)
Sponsor/Organizer: [Scottsdale Kids Growing-up Green](#)

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Here are the events currently scheduled for cities in **California**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: **Statewide** -- 4/22/00
Event Name: [Earth Day 2000](#)
Sponsor/Organizer: [California State Parks Foundation](#)

Where: **Arcata** -- 4/22/00
Event Name: [Renewable Energy Fair](#)
Sponsor/Organizer: [Redwood Alliance](#)

Where: **Avalon** -- 4/22/00
Event Name: [Catalina Island Earth Day 2000](#)
Sponsor/Organizer: [Catalina Island Earth Day 2000 Committee](#)

Where: **Berkeley** -- 4/22/00
Event Name: [Global Dive-In Campaign](#)
Sponsor/Organizer: [The Coral Reef Alliance - CORAL](#)

Where: **Berkeley** -- 4/22/00
Event Name: [Berkeley Earth Day](#)
Sponsor/Organizer: [Berkeley Earth Day](#)

Where: **Carson** -- 4/22/00
Event Name: [Earth Day Awareness 2000](#)
Sponsor/Organizer: [City of Carson](#)

Where: **Concord** -- 4/30/00

Event Name: Contra Costa County Earth Day

Sponsor/Organizer: Contra Costa Earth Day Festival

Where: **Fremont** -- 4/15/00

Event Name: Tri-City Family Fair

Sponsor/Organizer: Tri-City Family FairCity of Fremont

Where: **Half Moon Bay** -- 4/22/00

Event Name: San Mateo Coast Earth Fair 2000

Sponsor/Organizer: Save Our Shores:San Mateo Earth Fair 2000

Where: **Hermosa Beach** -- 1/21/00

Event Name: US/Mexico Sister City Ass'n. National Convention: Protect Our Shared Environment

Sponsor/Organizer: Hermosa Beach Sister City Association

Where: **Lompoc** -- 4/22/00

Event Name: Lompoc Earth Day 2000

Sponsor/Organizer: City of Lompoc/ Santa Barbara County Relief

Where: **Long Beach** -- 4/22/00

Event Name: Los Cerritos Wetlands Cleanup and Species Survey

Sponsor/Organizer: Le Bateau du Audubon/ Social and Environmental Entrepreneurs

Where: **Los Angeles** -- 1/1/00

Event Name: Earth Day Los Angeles

Sponsor/Organizer: Earth Day Los Angeles

Where: **Moss Landing** -- 4/22/00

Event Name: Moss Landing Harbor Community Park

Sponsor/Organizer: Moss Landing Harbor District

Where: **Mountain View** -- 4/22/00

Event Name: Bay Area Earth Day 2000

Sponsor/Organizer: Bay Area Action

Where: Napa -- 4/14/01

Event Name: Earth Day 2001

Sponsor/Organizer: Napa Chapter of the California Native Plant Society

Where: Newport Beach -- 4/16/00

Event Name: BIKE THE BACK BAY TO ADOPT YOUR WATERWAY

Sponsor/Organizer: Earth Resource Foundation

Where: Oakland -- 4/22/00

Event Name: Oakland Zoo

Sponsor/Organizer: Oakland Zoo

Where: Pacifica -- 4/22/00

Event Name: Earth Day Auction

Sponsor/Organizer: Pacifica Ocean Discovery Center

Where: Palm Springs -- 4/30/00

Event Name: Windpower 2000

Sponsor/Organizer: American Wind Energy Association

Where: Placentia -- 4/15/00

Event Name: Earth Week Run

Sponsor/Organizer: City of Placentia

Where: Richmond -- 4/22/00

Event Name: West County Earth Day 2000

Sponsor/Organizer: West Contra Costa Integrated Waste Management Authority

Where: Riverside -- 1/1/00

Event Name: Global Peace for Humanity

Sponsor/Organizer: Rainbow Warriors Of Peace

Where: Sacramento -- 4/22/00

Event Name: Sacramento Earth Day Network 2000
Sponsor/Organizer: Sacramento Earth Day Network

Where: San Diego -- 2/26/00
Event Name: Adopt-A-Beach
Sponsor/Organizer: USIU

Where: San Diego -- 4/16/00
Event Name: San Diego Earth Fair
Sponsor/Organizer: San Diego EarthWorks

Where: San Francisco -- 3/1/00
Event Name: RIDES' Earth Day Promotion
Sponsor/Organizer: RIDES for Bay Area Communters, Inc.

Where: San Francisco -- 4/22/00
Event Name: San Francisco Civic Center Festival - Earth Day 2000
Sponsor/Organizer: San Francisco Earth Day Coalition

Where: San Jose -- 4/20/00
Event Name: San Jose State University Earth Day 2000
Sponsor/Organizer: Environmental Resource Center

Where: San Mateo -- 4/22/00
Event Name: San Mateo Coast Earth Day
Sponsor/Organizer: San Mateo Coast Earth DaySave Our Shores

Where: San Rafael -- 4/22/00
Event Name: Marin Civic Center Earth Day
Sponsor/Organizer: Marin Civic Center Earth DayMarin Conservation League

Where: San Ramon -- 4/15/00
Event Name: San Ramon Earth Day 2000
Sponsor/Organizer: City of San Ramon

Where: **Santa Ana** -- 4/22/00

Event Name: Earth Day 2000

Sponsor/Organizer: Santa Ana Zoo

Where: **Santa Barbara** -- 4/22/00

Event Name: Earth Day 2000 - Santa Barbara

Sponsor/Organizer: Community Environmental
Council-CEC

Where: **Seaside** -- 4/26/00

Event Name: California State U - Monterey Bay
Earth Day

Sponsor/Organizer: California State U - Monterey Bay -
MBase Earth Day

Where: **Stanford** -- 3/10/00

Event Name: Sea Change: The National Association
of Environmental Law Societies
(NAELS) Conference

Sponsor/Organizer: Stanford Environmental Law Society

Where: **TBA** -- 4/16/00

Event Name: Environmental Volunteers: Coast to
Coast Discovery Ride

Sponsor/Organizer: Environmental Volunteers

Where: **Thousand Oaks** -- 3/25/00

Event Name: Earth Day/Arbor Day 2000

Sponsor/Organizer: City of Thousand Oaks

Where: **W. Hollywood** -- 4/22/00

Event Name: Earth Day Energy Fast

Sponsor/Organizer: Earth Day Energy Fast

Where: **West Marin** -- 4/22/00

Event Name: Earth Day 2000

Sponsor/Organizer: Marin Municipal Water District

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Here are the events currently scheduled for cities in **Colorado**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Denver](#) -- 4/14/00
Event Name: [Colorado Earth Day 2000: New Energy for a New Era](#)
Sponsor/Organizer: [Colorado Earth Day 2000](#)

Where: [Denver](#) -- 4/17/00
Event Name: [The Earth Around Us](#)
Sponsor/Organizer: [Denver Museum of Natural History](#)

Where: [Denver](#) -- 4/22/00
Event Name: [Earth Day Celebration](#)
Sponsor/Organizer: [Denver Zoo](#)

Where: [Littleton](#) -- 4/17/00
Event Name: [Give Something Back](#)
Sponsor/Organizer: [South Platte Park](#)

Where: [Littleton](#) -- 4/22/00
Event Name: [Earth Day 2000 Festival](#)
Sponsor/Organizer: [South Platte Park](#)

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Here are the events currently scheduled for cities in **Connecticut**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Bridgeport](#) -- 4/22/00
Event Name: [U Bridgeport- Earth Day Action Contest](#)
Sponsor/Organizer: [University of Bridgeport-Earth Day Action Contest](#)

Where: [Canton](#) -- 4/22/00
Event Name: [Earth Day 2000 Activities](#)
Sponsor/Organizer: [Roaring Brook Nature Center](#)

Where: [N. Grosvenordale](#) -- 4/15/00
Event Name: [West Thompson Lake Spring Clean-up Day](#)
Sponsor/Organizer: [US Army Corps of Engineers](#)

Where: [New London](#) -- 4/30/00
Event Name: [Southeastern Connecticut Earth Day 2000](#)
Sponsor/Organizer: [Connecticut College](#)

Where: [Trumbull](#) -- 4/22/00
Event Name: [Trumbull Land Trust Open Space Tour](#)
Sponsor/Organizer: [Trumbull Land Trust, Inc.](#)

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Here are the events currently scheduled for cities in **D.C.**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Washington](#) -- 1/1/00

Event Name: [Heart of the Earth](#)

Sponsor/Organizer: [Zen Pictures](#)

Where: [Washington](#) -- 1/28/00

Event Name: [The Policy Challenge of Global Warming: Perspectives on What Policy Makers Should Do](#)

Sponsor/Organizer: [National Policy Association](#)

Where: [Washington](#) -- 4/20/00

Event Name: [Earth Charter USA Conference](#)

Sponsor/Organizer: [Earth Charter USA](#)

Where: [Washington](#) -- 4/22/00

Event Name: [Earth Fair 2000](#)

Sponsor/Organizer: [Earth Day Network](#)

Where: [Washington](#) -- 4/22/00

Event Name: [Jefferson Stone Rededication](#)

Sponsor/Organizer: [Earth Peace Sites](#)

Where: [Washington](#) -- 4/22/00

Event Name: [SolTech 2000](#)

Sponsor/Organizer: [Solar Energy Industries Association \(SEIA\)](#)

Where: **Washington** -- 4/24/00

Event Name: Earth Week / Earth Fest

Sponsor/Organizer: Georgetown University

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Here are the events currently scheduled for cities in **Florida**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

- Where:* [Statewide](#) -- 2/21/00
Event Name: [Florida Solar Energy Center Events](#)
Sponsor/Organizer: [Florida Solar Energy Center](#)
- Where:* [Cocoa Beach](#) -- 4/14/00
Event Name: [E.A.R.T.H. AWARENESS 2000](#)
Sponsor/Organizer: [E.ntertainers A.gainst R.uining T.heir H.ome Awareness](#)
- Where:* [Hollywood](#) -- 7/21/00
Event Name: [Beach Clean-up](#)
Sponsor/Organizer: [Beach Clean-up](#)
- Where:* [Orlando](#) -- 4/15/00
Event Name: [Earth Day Celebration 2000](#)
Sponsor/Organizer: [Tibet-Butler Preserve](#)
- Where:* [Orlando](#) -- 4/21/00
Event Name: [Earth Day Celebration 2000-Orlando](#)
Sponsor/Organizer: [Orange County Environmental Protection Division](#)
- Where:* [Orlando](#) -- 4/22/00
Event Name: [Earth Day 2000 - Orlando Symposium](#)
Sponsor/Organizer: [OIMS Environmental Committee](#)

Where: **Pensacola** -- 4/22/00
Event Name: Pensacola Earth Day 2000
Sponsor/Organizer: Gulf Coast Environmental Defense

Where: **St. Augustine** -- 4/22/00
Event Name: St. Augustine Earth Day 2000
Sponsor/Organizer: Earth Day 2000 for St. Augustine and St. Johns County

Where: **St. Petersburg** -- 2/17/00
Event Name: The Greatest Environmental Challenge of the 21st Century
Sponsor/Organizer: Alliance for Florida's Future

Where: **Tallahassee** -- 4/14/00
Event Name: Earth Day 2000 at Florida State U
Sponsor/Organizer: Florida State U - Earth Day

Where: **Titusville** -- 4/22/00
Event Name: Earth Day 2000 Festival
Sponsor/Organizer: Friends of the Enchanted Forest

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Here are the events currently scheduled for cities in **Georgia**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Atlanta](#) -- 4/22/00
Event Name: [Countdown to Earth Day 2000](#)
Sponsor/Organizer: [Environmental Fund for Georgia](#)

Where: [Atlanta](#) -- 4/22/00
Event Name: [People Count: Hot on the Trail](#)
Sponsor/Organizer: [Turner Environment Division](#)

Where: [Mableton](#), -- 3/17/00
Event Name: [Southeast Regional Workshop -
Shaping a Sustainable Future:
BestPractices in Higher Education](#)
Sponsor/Organizer: [Second Nature](#)

Where: [Toccoa](#) -- 4/29/00
Event Name: [Earth Fest](#)
Sponsor/Organizer: [City of Toccoa](#)

Where: [Washington](#) -- 4/21/00
Event Name: [Earthday Celebration](#)
Sponsor/Organizer: [Wildlife Action, Inc.](#)

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Here are the events currently scheduled for cities in **Hawaii**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

- | | |
|---------------------------|--|
| <i>Where:</i> | Statewide |
| <i>Event Name:</i> | <u>Hawaii-Pacific Earth Year 2000</u> |
| <i>Sponsor/Organizer:</i> | <u>Hawaii Pacific Earth Year 2000</u> |
|
<i>Where:</i> |
Statewide -- 1/1/00 |
| <i>Event Name:</i> | <u>KidCast For Peace Solutions For a Better World</u> |
| <i>Sponsor/Organizer:</i> | <u>Visionary Artists Resources Including Other Unique Services</u> |
|
<i>Where:</i> |
Hilo -- 4/20/00 |
| <i>Event Name:</i> | <u>12th Annual Earth Day Fair</u> |
| <i>Sponsor/Organizer:</i> | <u>Hawai'i Community College - Earth Day</u> |
|
<i>Where:</i> |
Honolulu -- 4/22/00 |
| <i>Event Name:</i> | <u>Hawaii-Pacific Earth Year 2000 - Voyaging Into the 21st Century</u> |
| <i>Sponsor/Organizer:</i> | <u>Island Earth Day -Earth Day Hawaii</u> |
|
<i>Where:</i> |
Volcano -- 4/22/00 |
| <i>Event Name:</i> | <u>Hawaii-Pacific Earth Year 2000 - Voyaging Into the 21st Century</u> |
| <i>Sponsor/Organizer:</i> | <u>Performing and Fine Artists for World Peace</u> |

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Here are the events currently scheduled for cities in **Idaho**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Boise](#) -- 4/22/00
Event Name: [Boise State University Volunteer Services Board Earth Day Volunteer Events](#)
Sponsor/Organizer: [Volunteer Services Board](#)

Where: [Boise](#) -- 4/22/00
Event Name: [Earth Day 2000](#)
Sponsor/Organizer: [Idaho Rivers United](#)

Where: [Boise](#) -- 4/22/00
Event Name: [Idaho Earth Day 2000](#)
Sponsor/Organizer: [Events4U](#)

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Here are the events currently scheduled for cities in **Illinois**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Benton](#) -- 5/4/00
Event Name: [Rend Lake Earth Day 2000 Celebration](#)
Sponsor/Organizer: [U.S. Army Corps of Engineers- Rend Lake Project Office](#)

Where: [Carbondale](#) -- 4/15/00
Event Name: [Earth Week 2000](#)
Sponsor/Organizer: [Southern Illinois U - Carbondale - Southern Sustainability](#)

Where: [Carbondale](#) -- 4/22/00
Event Name: [Earth Day 2000](#)
Sponsor/Organizer: [Brownie Troop 63 of Shagbark Girl Scout Council](#)

Where: [Chicago](#) -- 4/1/00
Event Name: [Chicago Earth Month 2000](#)
Sponsor/Organizer: [Chicago Earth Month 2000](#)

Where: [Chicago](#) -- 4/9/00
Event Name: [Spiritual Journeys for Earth Month](#)
Sponsor/Organizer: [Interreligious Sustainability Project at the Center for Neighborhood Technology](#)

Where: [Naperville](#) -- 4/15/00

Event Name: Book Rescue & Recycling Event

Sponsor/Organizer: City of Naperville

Where: Normal -- 4/19/00

Event Name: Earth Day 2000 Celebration

Sponsor/Organizer: Earth Day 2000 Coalition Committee

Where: Urbana -- 4/16/00

Event Name: Earth Week Kickoff

Sponsor/Organizer: Students for Environmental Concerns

Where: Waukegan -- 4/22/00

Event Name: Earthfest

Sponsor/Organizer: Greenbelt Forest Preserve

Where: Wheaton (near Chicago) -- 4/14/00

Event Name: Great Lakes Regional OIKOS Clinic

Sponsor/Organizer: Target Earth International

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Here are the events currently scheduled for cities in **Indiana**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Ft. Wayne](#) -- 4/22/00

Event Name: [Earth Day 2K](#)

Sponsor/Organizer: [Indiana Purdue University Biology Club](#)

Where: [Indianapolis](#) -- 4/22/00

Event Name: [Earth Day Indiana - Earth Fair 2000](#)

Sponsor/Organizer: [Earth Day Indiana, Inc.](#)

Where: [Richmond](#) -- 4/29/00

Event Name: [2nd Annual Earth Day Enviro Fair](#)

Sponsor/Organizer: [Earth Day Enviro Fair Committee/Cope Environmental Center](#)

Where: [Terre Haute](#) -- 4/22/00

Event Name: [Earth Day 2000 Fest](#)

Sponsor/Organizer: [TREES Inc.](#)

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Here are the events currently scheduled for cities in **Iowa**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Baldwin](#) -- 4/21/00

Event Name: [Two Days in the Valley](#)

Sponsor/Organizer: [Navai Daba](#)

Where: [Cedar Rapids](#) -- 4/22/00

Event Name: [EARTH DAY 2000](#)

Sponsor/Organizer: [Science Station](#)

Where: [Des Moines](#) -- 1/21/00

Event Name: [Iowa Earth Year 2000 Kickoff](#)

Sponsor/Organizer: [Iowa Earth Year 2000](#)

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Here are the events currently scheduled for cities in **Kansas**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: **Statewide** -- 2/1/00
Event Name: [RESOURCES for Earth Day 2000](#)
Sponsor/Organizer: [Trees for Life](#)

Where: **Kansas City** -- 4/22/00
Event Name: [Earth Day 2000 - Kansas City](#)
Sponsor/Organizer: [The 30 Days of Earth Day](#)

Where: **Lawrence** -- 4/22/00
Event Name: [Earth Day 2000 Concert](#)
Sponsor/Organizer: [Forest Green](#)

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Here are the events currently scheduled for cities in **Kentucky**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Henderson](#) -- 4/22/00

Event Name: [Earth Day 2000](#)

Sponsor/Organizer: [JJ Audubon State Park](#)

Where: [Independence](#) -- 10/29/99

Event Name: [Tulip Planting](#)

Sponsor/Organizer: [Summit View Elementary PTA](#)

Where: [Lexington](#) -- 4/1/00

Event Name: [Reforest the Bluegrass](#)

Sponsor/Organizer: [Lexington-Fayette Urban County Government](#)

Where: [Louisville](#) -- 4/22/00

Event Name: [Earth Day at the Louisville Zoo](#)

Sponsor/Organizer: [Air Pollution Control District](#)

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Here are the events currently scheduled for cities in **Louisiana**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [New Orleans](#) -- 4/22/00
Event Name: [Earth Day 2000 New Orleans](#)
Sponsor/Organizer: [Southern Strategy for Energy & Environmental Renewal \(SSEER\)](#)

Where: [New Roads](#) -- 4/10/00
Event Name: [Celebrate Earth Day!](#)
Sponsor/Organizer: [Pointe Coupee Parish Library](#)

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Here are the events currently scheduled for cities in **Maine**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

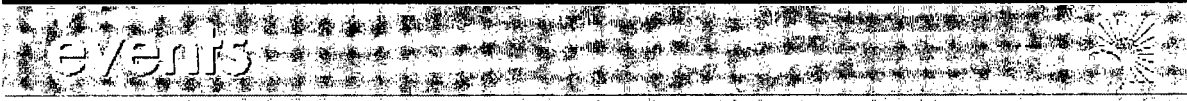
Where: [Castine](#) -- 4/27/00
Event Name: [Maine Earth Day 2000: Clean Energy Project Presentations and Award Ceremony](#)
Sponsor/Organizer: [Coalition for Sensible Energy](#)

Where: [South Portland](#) -- 4/22/00
Event Name: [Great Earth Week Clean-up 2000](#)
Sponsor/Organizer: [South Portland Land Trust](#)

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Here are the events currently scheduled for cities in **Maryland**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: **Statewide** -- 4/22/00
Event Name: Terrapin Station
Sponsor/Organizer: MD Fisheries Service, Terrapin Station

Where: **Annapolis** -- 4/22/00
Event Name: Earth Day 2000
Sponsor/Organizer: Friends of Quiet Waters Park

Where: **Annapolis** -- 4/22/00
Event Name: Earth Day 2000
Sponsor/Organizer: Glen Burnie Earth Day 2000

Where: **Baltimore** -- 4/10/00
Event Name: Maryland EarthDay 2000
Sponsor/Organizer: Maryland Eathday 2000

Where: **Hunt Valley** -- 4/22/00
Event Name: Gunpowder Watershed Festival Earth Day 2000
Sponsor/Organizer: Gunpowder Watershed Coalition

Where: **Nanjemoy** -- 4/12/00
Event Name: 3rd Annual Earth Day Celebration
Sponsor/Organizer: Nanjemoy Creek Environmental Education Center and Mt. Hope/Nanjemoy Elementary School

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Here are the events currently scheduled for cities in **Massachusetts**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: **Boston** -- 3/1/00

Event Name: Trees Are My Friends

Sponsor/Organizer: Eagle Eye Institute

Where: **Boston** -- 4/15/00

Event Name: Charles River Clean-up

Sponsor/Organizer: Massachusetts Community Water Watch

Where: **Boston** -- 4/22/00

Event Name: Massachusetts Earth Day 2000

Sponsor/Organizer: Massachusetts Earth Day Network 2000

Where: **Boston** -- 4/22/00

Event Name: Earth Day at Boston University

Sponsor/Organizer: Boston U - Environmental Student Organization

Where: **Boston** -- 4/30/00

Event Name: Run of the Charles Canoe & Kayak Race

Sponsor/Organizer: Charles River Watershed Association

Where: **Boston** -- 5/20/00

Event Name: Earth Night 2000

Sponsor/Organizer: Environmental League of

Massachusetts

Where: **Lynn** -- 4/29/00
Event Name: Earth Day Water Cleanup
Sponsor/Organizer: Massachusetts Community Water Watch

Where: **Norwell** -- 4/15/00
Event Name: Earth Day 2000
Sponsor/Organizer: South Shore Natural Science Center

Where: **Waltham** -- 5/6/00
Event Name: Waltham Earth Day 2000
Sponsor/Organizer: City of Waltham Earth Day Committee

Where: **Worcester** -- 4/15/00
Event Name: Earth Day Celebration
Sponsor/Organizer: Regional Environmental Council, Inc.

Where: **Worcester** -- 4/15/00
Event Name: Annual Earthday Cleanup
Sponsor/Organizer: Regional Environmental Council of Central Massachusetts

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Here are the events currently scheduled for cities in **Michigan**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [East Lansing](#) -- 4/22/00

Event Name: [MSU Earth Day 2000](#)

Sponsor/Organizer: [Eco](#)

Where: [Grand Rapids](#) -- 4/29/00

Event Name: [Jubilee for the Land: The Role of Faith Communities in Addressing the Environmental Issues of a New Century](#)

Sponsor/Organizer: [West Michigan Environmental Action Council \(WMEAC\)](#)

Where: [Houghton](#) -- 4/17/00

Event Name: [MTU Earth Day Educators](#)

Sponsor/Organizer: [MTU Earth Day Educators](#)

Where: [Kalamazoo](#) -- 4/22/00

Event Name: [Energizing People-centered Change](#)

Sponsor/Organizer: [Event](#)

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Here are the events currently scheduled for cities in **Minnesota**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

- Where:* [Owatonna](#) -- 4/21/00
- Event Name:* [Ahlborn Woods Clean-up](#)
- Sponsor/Organizer:* [Izaak Walton League of Owatonna](#)
-
- Where:* [St. Paul](#) -- 4/22/00
- Event Name:* [Como Zoo and Conservatory's Earth Day 5K Run/Walk and Earth Day Expo](#)
- Sponsor/Organizer:* [Como Zoo and Conservatory Society](#)

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Here are the events currently scheduled for cities in **Missouri**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Kansas City](#) -- 4/22/00
Event Name: [Earth Day 2000 - Kansas City](#)
Sponsor/Organizer: [The 30 Days of Earth Day](#)

Where: [St. Louis](#) -- 4/14/00
Event Name: [St. Louis Earth Day 2000](#)
Sponsor/Organizer: [St. Louis Earth Day 2000](#)

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Here are the events currently scheduled for cities in **Nebraska**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Lincoln](#) -- 4/22/00
Event Name: [Earth Day 2000 - Lincoln](#)
Sponsor/Organizer: [City of Lincoln](#)

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Here are the events currently scheduled for cities in **Nevada**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Las Vegas](#) -- 4/22/00
Event Name: [Earth Day Challenge: We Do -- How About You? RIDE THE BUS](#)
Sponsor/Organizer: [The Salvation Army - Star Program](#)

Where: [Reno](#) -- 4/22/00
Event Name: [Earth Day 2000 -- Reno](#)
Sponsor/Organizer: [Environmental Leadership](#)

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Here are the events currently scheduled for cities in **New Jersey**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Cape May Court House](#) -- 4/15/00
Event Name: [Cape May County Earth Day 2000](#)
Sponsor/Organizer: [Cape May County Public Information](#)

Where: [Little Silver](#) -- 4/14/00
Event Name: [Earth Day Celebration](#)
Sponsor/Organizer: [Red Bank Regional High School](#)

Where: [Matawan](#) -- 4/22/00
Event Name: [Earth Day Celebration](#)
Sponsor/Organizer: [NJ Division of Parks and Forestry,
Cheesequake State Park](#)

Where: [Mays Landing](#) -- 4/22/00
Event Name: [Earth Day - Community With Pride!](#)
Sponsor/Organizer: [Hamilton Point, Misty Pines Home
Owners Assoc.](#)

Where: [Medford](#) -- 4/22/00
Event Name: [Medford Earth Day 2000](#)
Sponsor/Organizer: [City of Medford](#)

Where: [Medford](#) -- 4/28/00
Event Name: [Woodford Cedar Run Wildlife
RefugeEarth Day 2000](#)
Sponsor/Organizer: [Woodford Cedar Run Wildlife Refuge](#)

Where: **New Brunswick** -- 4/1/00
Event Name: In Hot Water: Statewide Energy Forum
Sponsor/Organizer: NJ Community Water Watch

Where: **Newark** -- 4/22/00
Event Name: Earth Day 2000: 30 Years of Education and Conservation
Sponsor/Organizer: The Greater Newark Conservancy

Where: **Newark** -- 4/22/00
Event Name: Earth Day 2000:30 Years of Education and Conservation
Sponsor/Organizer: The Greater Newark Conservancy

Where: **Oceanville** -- 4/22/00
Event Name: Earthday Birthday 2000
Sponsor/Organizer: Edwin B. Forsythe Nat'l Wildlife Refuge

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Here are the events currently scheduled for cities in **New Mexico**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Albuquerque](#) -- 4/22/00
Event Name: [Earth Day 2000](#)
Sponsor/Organizer: [Earth Day Coalition of New Mexico](#)

Where: [Taos](#) -- 4/22/00
Event Name: [Global Peace Walk](#)
Sponsor/Organizer: [Global Peace Walk 2000](#)

Where: [Taos](#) -- 4/22/00
Event Name: [Global Peace Walk's EarthDay2000](#)
Sponsor/Organizer: [Global Peace Walk 2000](#)

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Here are the events currently scheduled for cities in **New York**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Albany](#) -- 4/10/00
Event Name: [Earth Day Lobby Day 2000](#)
Sponsor/Organizer: [Environmental Advocates](#)

Where: [Brooklyn](#) -- 4/10/00
Event Name: [Earth Day 2000 Activities](#)
Sponsor/Organizer: [Trinidad and Tobago International](#)

Where: [East Hampton](#) -- 4/22/00
Event Name: [Good Day Sunshine Earth Day Celebration](#)
Sponsor/Organizer: [Standing for Truth About Radiation\(STAR\)](#)

Where: [Ithaca](#) -- 4/22/00
Event Name: [Ithaca Earth Day 2000 Festival](#)
Sponsor/Organizer: [Center for Environmental Sustainability](#)

Where: [Ithaca](#) -- 4/29/00
Event Name: [No Purchase Necessary II: Building the Voluntary Simplicity Movement](#)
Sponsor/Organizer: [Cornell U - Earth Day](#)

Where: [Jamaica](#) -- 3/1/00
Event Name: [Nature Tours w/ Wildman Steve Brill](#)
Sponsor/Organizer: [Wildman](#)

Where: **Montour Falls** -- 4/29/00
Event Name: Earth Day Ribbon Circle
Sponsor/Organizer: Schuyler Interfaith Peace Group

Where: **New York** -- 3/19/00
Event Name: Earth Day - UN Peace Bell Ceremony
Sponsor/Organizer: United Nations Environment Programme

Where: **New York** -- 3/20/00
Event Name: Earth Society Foundation Earth Day 2000
Sponsor/Organizer: Earth Society Foundation

Where: **New York** -- 4/15/00
Event Name: Earth Day New York
Sponsor/Organizer: Earth Day New York

Where: **New York** -- 4/22/00
Event Name: Earthday Park Restoration
Sponsor/Organizer: Riverside Park Fund

Where: **Syracuse** -- 4/20/00
Event Name: Earth Day 2000!
Sponsor/Organizer: Syracuse U - Earth Day

Where: **Syracuse** -- 4/22/00
Event Name: Earth Day 2000 - Syracuse
Sponsor/Organizer: Syracuse U - Earth Day

Where: **Syracuse** -- 4/22/00
Event Name: Ecumenical Earth Day Celebration
Sponsor/Organizer: Creation Stewardship in Central New York

Where: **Utica** -- 4/15/00
Event Name: CONNECT: Earth Week 2000

Sponsor/Organizer: Children's Museum at Utica NY

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Here are the events currently scheduled for cities in **North Carolina**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Asheville](#) -- 4/22/00
Event Name: [Asheville Earth Day 2000](#)
Sponsor/Organizer: [Ginseng & Goldenseal Co.](#)

Where: [Asheville](#) -- 4/22/00
Event Name: [Asheville Earth Day 2000 Festival](#)
Sponsor/Organizer: [EarthStage Productions](#)

Where: [Dallas](#) -- 4/15/00
Event Name: [Earth Day 2000 - Be A Piece of the Solution](#)
Sponsor/Organizer: [Gaston County Parks and Recreation Department](#)

Where: [Durham](#) -- 4/22/00
Event Name: [Durham Earth Day 2000](#)
Sponsor/Organizer: [Durham Earth Day 2000 Duke University](#)

Where: [Greensboro](#) -- 4/19/00
Event Name: [UNC-Greensboro Earth Day 2000](#)
Sponsor/Organizer: [U North Carolina - Greensboro - Waste and Recycling](#)

Where: [Greensboro](#) -- 4/22/00
Event Name: [EarthDay2000 - Greensboro](#)
Sponsor/Organizer: [Earthday 2000 - Greensboro, N.C.](#)

Where: **Raleigh** -- 4/15/00
Event Name: North Carolina St. U Earth Week 2000
Sponsor/Organizer: North Carolina St. U - Lorax
Environmental Club

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Here are the events currently scheduled for cities in **Ohio**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Cleveland](#) -- 4/22/00
Event Name: [EARTHfest 2000](#)
Sponsor/Organizer: [Earth Day Coalition of Cleveland](#)

Where: [Columbus](#) -- 4/5/00
Event Name: [Affordable Comfort 2000](#)
Sponsor/Organizer: [Affordable Comfort, Inc](#)

Where: [Dayton](#) -- 4/29/00
Event Name: [Earth Day 2000 Celebration](#)
Sponsor/Organizer: [Miami Valley Earth Central](#)

Where: [Lima](#) -- 4/22/00
Event Name: [Wildflower Wagon Train](#)
Sponsor/Organizer: [Johnny Appleseed Metro Parks](#)

Where: [Lima](#) -- 4/22/00
Event Name: [The Wise & Wacky Dr. Wildweed](#)
Sponsor/Organizer: [Johnny Appleseed Yarn Spinners](#)

Where: [New Albany](#) -- 4/20/00
Event Name: [New Albany Earth Day Fair 2000](#)
Sponsor/Organizer: [New Albany High School](#)

Where: [Tiffin](#) -- 4/29/00
Event Name: [Earthday Celebrations](#)

Sponsor/Organizer: The Franciscan Earth Literacy Center

Where: Waynesville -- 4/22/00

Event Name: 6th Annual Caesar Creek March for
Parks

Sponsor/Organizer: Caesar Creek March for Parks

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Here are the events currently scheduled for cities in **Oklahoma**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Altus](#) -- 4/22/00

Event Name: [Project G.R.O.W.](#)

Sponsor/Organizer: [Altus Middle School](#)

Where: [Jenks](#) -- 4/15/00

Event Name: [Jenks Trash Bash](#)

Sponsor/Organizer: [City of Jenks](#)

Where: [Oklahoma City](#) -- 4/13/00

Event Name: [EARTH DAY 2000 CELEBRATION](#)

Sponsor/Organizer: [City of Oklahoma City/Public Works Department](#)

Where: [Tulsa](#) -- 4/20/00

Event Name: [EnviroExpo](#)

Sponsor/Organizer: [The M.E.T. & Tulsa Zoo](#)

Where: [Tulsa](#) -- 4/22/00

Event Name: [Earth Day at the Zoo](#)

Sponsor/Organizer: [The Metropolitan Environmental Trust](#)

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Here are the events currently scheduled for cities in **Oregon**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Eugene](#) -- 4/17/00

Event Name: [Earth Week 2000: Solutions](#)

Sponsor/Organizer: [Survival Center](#)

Where: [Gresham](#) -- 4/21/00

Event Name: [Earth Day 2000 Fair](#)

Sponsor/Organizer: [Mt. Hood Community College - Earth Day](#)

Where: [Portland](#) -- 4/22/00

Event Name: [Procession of the Species](#)

Sponsor/Organizer: [Earth and Spirit Council](#)

Where: [Portland](#) -- 4/22/00

Event Name: [The World Can't Wait: Race To Stop Global Warming...Earth Day 2000](#)

Sponsor/Organizer: [Green House Network](#)

Where: [Silverton](#) -- 4/22/00

Event Name: [Earth Day 2000](#)

Sponsor/Organizer: [The Oregon Garden](#)

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Where: **Statewide** -- 4/1/00
Event Name: [Earth Day Directory and Resource Guide](#)
Sponsor/Organizer: [Chester County Health Department](#)

Where: **FC, PA** -- 4/22/00
Event Name: [FCHS Earth Day 2000](#)
Sponsor/Organizer: [Ford City High School Leo Club](#)

Where: **New Milford** -- 4/22/00
Event Name: [Earth Day on Wheels](#)
Sponsor/Organizer: [New Milford Bike Shop](#)

Where: **Philadelphia** -- 4/22/00
Event Name: [Earth Day Energy Fair](#)
Sponsor/Organizer: [WMGK](#)

Where: **Slippery Rock** -- 4/18/00
Event Name: [30th Anniversary Earth Day Celebration](#)
Sponsor/Organizer: [Slippery Rock University](#)

Where: **State College** -- 4/15/00
Event Name: [Earth Day Festival & Week](#)
Sponsor/Organizer: [NaturalState](#)

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Here are the events currently scheduled for cities in **Rhode Island**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: Providence -- 4/17/00

Event Name: Conservation Week & Earth Day

Sponsor/Organizer: Roger Williams Park Zoo

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Where: [Charleston](#) -- 4/22/00
Event Name: [Earth Day 2000 Festival, Charleston, South Carolina](#)
Sponsor/Organizer: [Charleston County Solid Waste & Recycling](#)

Where: [Clemson](#) -- 4/21/00
Event Name: [Clemson University Earth Day](#)
Sponsor/Organizer: [Clemson University's Students for Environmental Awareness](#)

Where: [Columbia](#) -- 3/25/00
Event Name: [Earth Day Alleyway - Kids Day at Finlay Park](#)
Sponsor/Organizer: [South Carolina Department of Health and Environmental Control](#)

Where: [Goose Creek](#) -- 4/15/00
Event Name: [Celebrate the Earth](#)
Sponsor/Organizer: [Berkeley County Water & Sanitation Authority-BCWSA](#)

Where: [Greenville](#) -- 4/17/00
Event Name: [Furman University Earth Day 30](#)
Sponsor/Organizer: [Furman University - Earth Day](#)

Where: [Greer](#) -- 4/14/00
Event Name: [Greer Earth Day and Spring Fling](#)

Event Name: Green Earth Day and Spring Fling
Sponsor/Organizer: Greer CPW

Where: Rock Hill -- 4/29/00
Event Name: Earth Day Birthday
Sponsor/Organizer: Rock Hill Clean & Green

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Where: [Knoxville](#) -- 4/22/00

Event Name: [Green Power Campaign](#)

Sponsor/Organizer: [Tennessee Valley Energy Reform Coalition \(TVERC\)](#)

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Where: [Austin](#) -- 4/15/00

Event Name: [Earth Day](#)

Sponsor/Organizer: [Ecology Action](#)

Where: [Corpus Christi](#) -- 4/22/00

Event Name: [Earth Day/Bay Day](#)

Sponsor/Organizer: [Coastal Bend Bays Foundation](#)

Where: [Corpus Christi](#) -- 4/22/00

Event Name: [Spring Garden Festival and Plant Sale](#)

Sponsor/Organizer: [Corpus Christi Botanical Gardens](#)

Where: [Dallas](#) -- 3/31/00

Event Name: [Sustainable Dallas 2000](#)

Sponsor/Organizer: [ECO Dallas](#)

Where: [Denton](#) -- 4/22/00

Event Name: [Earth Day 2000-Denton,TX.](#)

Sponsor/Organizer: [University of North Texas - Earth Day](#)

Where: [El Paso](#) -- 4/22/00

Event Name: [Our World Recycling Day](#)

Sponsor/Organizer: [Green Horizons](#)

Where: [Hitchcock](#) -- 4/20/00

Event Name: [Save Our Earth: An Integrated](#)

Exploration

Sponsor/Organizer: HISD - Wax 2 the Max

Where: Houston -- 2/12/00

Event Name: Rice Environmental Conference:
Planes, Trains, and Automobiles - The
Future of Transportation

Sponsor/Organizer: Rice U - Environmental Club

Where: Houston -- 4/20/00

Event Name: North Harris College Earth Fair

Sponsor/Organizer: North Harris College - Earth Alliance

Where: Houston -- 4/22/00

Event Name: Natural Mystic

Sponsor/Organizer: Space City Records

Where: Houston -- 5/6/00

Event Name: Biannual Houston Downtown Street
Festival/Earth Day 2000

Sponsor/Organizer: EarthWorks Productions

Where: San Antonio -- 4/14/00

Event Name: Randolph AFB Earth Day 2000

Sponsor/Organizer: Randolph Air Force Base, Texas

Where: Seagoville -- 4/29/00

Event Name: Earth Day 2000 at the Environmental
Education Center

Sponsor/Organizer: DPS Environmental Ed. Center

Where: The Woodlands -- 4/1/00

Event Name: 11th annual Earth Day Festival

Sponsor/Organizer: Woodlands Community Service Corp

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Where: West Jordan -- 4/22/00
Event Name: Earth Day 2000 Celebration
Sponsor/Organizer: Utah Society for Environmental Education

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Where: [Burlington](#) -- 4/22/00

Event Name: [Vermont Earth Day 2000](#)

Sponsor/Organizer: [Vermont Natural Resources Council](#)

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Here are the events currently scheduled for cities in **Virginia**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Hampton](#) -- 4/22/00
Event Name: [Soundfest 2000](#)
Sponsor/Organizer: ['Roo Records / Full Contact Ent.](#)

Where: [Richmond](#) -- 4/22/00
Event Name: [Earth Day Observance](#)
Sponsor/Organizer: [Greater Richmond Environmental Action Trust \(GREAT\)](#)

Where: [Richmond](#) -- 4/30/00
Event Name: [The GREAT Earth Day Concert](#)
Sponsor/Organizer: [Greater Richmond Environmental Action Trust \(GREAT\)](#)

Where: [Virginia Beach](#) -- 5/5/00
Event Name: [Earth Day 2000 Weekend Celebration](#)
Sponsor/Organizer: [Earth Day Committee](#)

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Where: **Statewide** -- 1/4/00
Event Name: [International Storytelling for the Earth](#)
Sponsor/Organizer: [Storytellers Membership Association](#)

Where: **Alger** -- 3/1/00
Event Name: [Public Workshop Series](#)
Sponsor/Organizer: [Skagit Conservation District](#)

Where: **Coupeville** -- 4/22/00
Event Name: [Earth Day 2000 Celebration at the Whdbey Island Greenbank Farm](#)
Sponsor/Organizer: [Washington State U - Island County - Waste Warriors](#)

Where: **Duvall** -- 4/22/00
Event Name: [Wilderness Awareness School's Earthday 2000 Celebration](#)
Sponsor/Organizer: [Wilderness Awareness School](#)

Where: **Olympia** -- 4/22/00
Event Name: [Clean Energy Challenge](#)
Sponsor/Organizer: [Climate Solutions](#)

Where: **Richland** -- 4/22/00
Event Name: [Tri Cities Earth Day 2000](#)
Sponsor/Organizer: [Tri Cities Earth Day-City of Richland](#)

Where: **San Juan Island** -- 4/14/00
Event Name: Project NatureConnect Orientation Course for Earth Week 2000!
Sponsor/Organizer: Project NatureConnect

Where: **Seattle** -- 2/8/00
Event Name: YMCA Earth Service Corps Environmental Symposium
Sponsor/Organizer: YMCA Earth Service Corps

Where: **Seattle** -- 4/1/00
Event Name: Northwest EnviroExpo
Sponsor/Organizer: Northwest EnviroExpo

Where: **Seattle** -- 4/22/00
Event Name: Earth Day Puget Sound
Sponsor/Organizer: Earth Day Puget Sound

Where: **Seattle** -- 4/22/00
Event Name: Seattle Peace Concerts Earth Day Concert
Sponsor/Organizer: Seattle Peace Concerts

Where: **Silverdale** -- 4/22/00
Event Name: EarthAware2000
Sponsor/Organizer: The Guardian Newsletter

Where: **Tacoma** -- 4/14/00
Event Name: Pacific Lutheran University Earth Week
Sponsor/Organizer: Pacific Lutheran U - GREAN

Where: **Tacoma** -- 4/22/00
Event Name: Citizens for a Healthy Bay
Sponsor/Organizer: Citizens for a Healthy Bay

Where: **Walla Walla** -- 4/16/00
Event Name: Walla Walla Area Earth Week

Sponsor/Organizer: Whitman College - Earth Day

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Here are the events currently scheduled for cities in **West Virginia**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Charleston](#) -- 4/19/00
Event Name: [Earth Day at the Capitol](#)
Sponsor/Organizer: [Division of Natural Resources](#)

Where: [Webster Springs](#) -- 4/22/00
Event Name: [Webster County Earth Day](#)
Sponsor/Organizer: [Horizon Line River Club](#)

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Here are the events currently scheduled for cities in **Wisconsin**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Appleton](#) -- 4/20/00
Event Name: [Greenfire Earth Day Celebration](#)
Sponsor/Organizer: [Greenfire, Lawrence University](#)

Where: [Madison](#) -- 6/16/00
Event Name: [Renewable Energy and Sustainable Living Fair](#)
Sponsor/Organizer: [Midwest Renewable Energy Association](#)

Where: [Milwaukee](#) -- 4/1/00
Event Name: [Metropolitan Milwaukee Earth Month](#)
Sponsor/Organizer: [Milwaukee Earth Day 2000 Network](#)

Where: [Milwaukee](#) -- 4/29/00
Event Name: [Milwaukee Earth Day 2000](#)
Sponsor/Organizer: [Milwaukee Earth Day 2000 Network](#)

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Here are the events currently scheduled for cities in **Wyoming**. Cities are listed alphabetically by name. Events are shown chronologically, from earliest start date and time to latest.

Where: [Jackson Hole](#) -- 4/22/00

Event Name: [Festival 2000: Celebrating the Wild of Jackson Hole](#)

Sponsor/Organizer: [The Murie Center](#)

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NOAA Environmental Accomplishments

Improve Understanding of Climate Change

Accomplishments

Narrowed Uncertainties

NOAA has narrowed uncertainties in the global carbon dioxide budget and reduced the uncertainty in climate forcing by ozone changes.

Advanced Understanding

NOAA has advanced understanding of the trends and “radioactive effects” of greenhouse gases and methane, the representation of the oceans in coupled climate prediction models, and the role of the oceans and land surface in the global carbon cycle.

Advanced Assessments

NOAA has led a state-of-understanding assessment of the ozone layer and has provided the policy-relevant scientific understandings of that document to national and international decision-makers.

Helped Formulate Scientific Scope of Major Climate Assessment

By providing the highest quality and objective scientific information on climate change available to U.S. and international policymakers, NOAA has contributed significantly to the scope of the FY 2001 major climate assessment of the Intergovernmental Panel on Climate Change.

Determined that the Ocean is a Significant Sink for an Ozone-Depleting Gas

Atmospheric methyl bromide’s estimated lifetime has been reduced substantially, corresponding to a significant lowering (30 percent) of this compound’s estimated effect on the ozone layers.

Improved Climate Models

NOAA has expanded the capability of climate models and their correlation with historical observations of global surface temperatures, carbon dioxide concentrations, and atmospheric sulfate aerosols.

Expanded Analysis of Weather Extremes in the U.S.

NOAA has examined the patterns and trends in temperature, precipitation, hurricane occurrence, and other weather phenomena to better understand the possible relationship to longer-term climate change.

Improve Weather Warnings and Forecasts

Accomplishments

Modernization

Ushering in a new era of severe weather and flood warning and forecast services, NOAA’s modernized weather service provides unprecedented weather services to the nation. To improve warnings and lead times, important advances in the science of meteorology and hydrology are being coupled with major new technological capabilities for observing and analyzing the atmosphere.

Advanced Weather Interactive Processing System (AWIPS)

A recently deployed national network of 152 interactive weather computer and communications systems, AWIPS strengthens weather- and flood-related forecasts and warnings that protect lives and property.

Polar Satellite NOAA-15

With improved imaging and sounding capabilities, NOAA-15 is the first in a series of five satellites designed to improve weather forecasting and monitor global environmental events. Operating over the next 12 years, the satellites will “scan” the Earth, yielding continuous images of cloud cover, atmospheric temperatures, moisture and aerosol distributions, and surface parameters such as snow, ice, and vegetation.

Geostationary GOES-10

Combined with data from Doppler Radars and automated surface observing systems, the real-time weather data gathered by GOES satellites greatly aid weather forecasters in providing better warnings of thunderstorms, winter storms, flash floods, hurricanes, and other severe weather.

A New Generation of NOAA Weather Radio

Significantly expanded coverage now safeguards a much broader public, providing 24-hour access to potentially life-saving information. Like an alarm clock, the newest models can sound an alarm when hazards threaten.

Dial-A-Buoy

This service allows mariners to call in for the latest coastal and offshore weather reports. Wind and wave measurements taken within the hour are now available at 65 buoys and 54 Coastal Marine Automated Network stations located in coastal waters around the country and in the Great Lakes.

Improve Marine Transportation

Accomplishments

Rapid Production of Nautical Charts

NOAA significantly reduced the time it takes to produce critical nautical charts with newly collected data – from two years to four weeks – and now produces the charts in electronic as well as in traditional paper formats.

Accurate Maps and Surveys

NOAA now operates shallow-water multibeam and sidescan sonar systems on its hydrographic vessels for full-bottom survey coverage. Surveys include the detection, location, and identification of wrecks and obstructions as well as the accurate determination of the depths and configuration of water bodies.

Scope of Hydrographic Surveys

NOAA’s hydrographic survey vessels and contract surveyors performed surveys of over 1,200 square nautical miles in 1998, which is three percent of the total 43,000 square nautical miles that most needed surveying. NOAA further mapped 10 percent of the shoreline most critical to updated charts.

Data in Real-Time

NOAA continues to provide quality assurance for real-time data on water levels, currents, and weather conditions for some of the nation’s busiest ports. NOAA has increased the network of reference stations delivering high-accuracy, quality-controlled Global Positioning System data to mariners and other users.

Improve Marine Fish Management

Accomplishments

Implementation Plan for the Code of Conduct

NOAA has developed a plan for the domestic implementation of all principles addressed in the Code of Conduct for Responsible Fishing. This plan advances the Code of Conduct adopted in 1995 by the Food and Agriculture Organization of the United Nations, a universally acclaimed global ethic for fisheries practices worldwide.

FAO Implementation Plan of Action

After spearheading international participation in the implementation plan of the Food and Agriculture Organization, NOAA is developing a national plan to manage and conserve sharks and to reduce bycatch of seabirds in longline fisheries.

Sustainable Fisheries Act

With the initial round on implementing the Sustainable Fisheries Act of the Magnuson-Stevens Act nearly completed, NOAA has established a foundation for the future management of fisheries. NOAA will continue working with commercial and recreational fishing interests, federal and state governments, and others to develop and implement safeguards that protect essential habitats.

New England Stocks Recovering

Many New England overfished stocks are beginning to show signs of recovery. The 1998 class of haddock, for example, is the largest in 20 years. The Georges Bank cod stock biomass has increased 43 percent above the record low level of 1995. Additional scallop harvests in once-closed areas have added \$40 million to southeast New England fishing communities.

Fishing Capacity Reduction Initiative

This groundbreaking vessel buyout in the severely overcapitalized New England fishery was the nation's inaugural voluntary buyback program. Scrapping 68 groundfish vessels and revoking 68 groundfish limited-entry permits, this program helps to both address the issue of overcapacity and assist the remaining fishers to achieve greater earning potential. An additional 400 permits were revoked to help reduce groundfish bycatch.

Sound Management

The North Pacific groundfish fishery remains the most biologically and environmentally productive in U.S. waters.

Save Endangered and Threatened Species

Accomplishments

California Gray Whale has Recovered

Previously hunted to near extinction, this marine mammal is the first to be taken off the endangered species list.

Habitat Conservation for Pacific Salmon

Working with the private sector, NOAA successfully developed a Habitat Conservation Plan to guide harvest practices in northern California in 210,000 acres of company lands for the next 50 years. Completing this plan was key to preserving the 9,500-acre Headwaters Forest and additional old-growth woodland. The plan protects salmon-bearing streams.

Salmon Recovery Plan Developed

In the Pacific Northwest, a comprehensive recovery plan has been developed for Snake River sockeye, spring/summer chinook, and fall chinook salmon.

Innovative Technologies Help Sea Turtles

Developed and continually improves, these technologies allow endangered sea turtles to escape safely from shrimping nets in the Southeast.

“Dolphin-Safe Tuna”

Through international cooperation, tuna caught in the eastern tropical Pacific Ocean are now “dolphin-safe,” ensuring the health of dolphin stocks. Mortality rates for the dolphins dropped from over 120,000 in 1986 to less than 3,000 in 1997.

Endangered Right Whales Tracked

To help maintain fragile stocks, satellites are tracking Right Whales off the New England coast.

Protect Coastal Resources

Accomplishments

Hosted National Ocean Conference

With the Department of Navy, NOAA hosted a national conference in 1998 to draw attention to key ocean resources and issues, including coastal and ocean navigation and transportation, coastal habitat, fishing resources, and the interaction of ocean processes on weather and climate. The conference generated extensive national and international information on ocean issues and produced new presidential initiatives, future budget commitments, and federal policies regarding ocean activities.

Led *Pfiesteria* Efforts

With the Environmental Protection Agency, NOAA led federal efforts to assist state and coastal communities in assessing, monitoring, and responding to harmful algal bloom outbreaks such as *Pfiesteria* and red and brown tides. Research grants were also provided to a number of key scientists to help improve understanding of the conditions and behavior of these harmful marine episodes.

Launched New Partnerships for Ocean Exploration

NOAA initiated new partnerships to explore the deep ocean. Sustainable Seas is a partnership with the National Geographic Society and the Goldman Foundation to use new underwater technologies to explore the biological diversity and other characteristics of deep ocean areas within NOAA's 12 National Marine Sanctuaries. In addition, NOAA's National Sea Grant Program continues to support research partnerships that have identified several new chemical products from marine organisms that offer promise for pharmaceutical development.

Protected and Restored Coastal Habitats

During 1998, NOAA responded to over 87 spills of hazardous materials in coastal waters and numerous groundings of vessels and other incidents impacting marine resources. NOAA further led or participated in over 25 major efforts to restore damaged coastal habitats from coral reefs to coastal wetlands; restored over 14,000 acres of coastal wetlands; added Georgia as the newest state member of the Coastal Zone Management Program; designated the Jacques Cousteau Reserve at Mullica River and the Great Bay Reserve, both in New Jersey, as the newest National Estuarine Research Reserves; and opened the new Cooperative Institute for Coastal and Estuarine Environmental Technology to research and develop new tools for coastal monitoring and restoration, among other areas.

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Accomplishments

Modernization

Ushering in a new era of severe weather and flood warning and forecast services, NOAA’s modernized weather service provides unprecedented weather services to the nation. To improve warnings and lead times, important advances in the science of meteorology and hydrology are being coupled with major new technological capabilities for observing and analyzing the atmosphere.

Advanced Weather Interactive Processing System (AWIPS)

A recently deployed national network of 152 interactive weather computer and communications systems, AWIPS strengthens weather- and flood-related forecasts and warnings that protect lives and property.

Polar Satellite NOAA-15

With improved imaging and sounding capabilities, NOAA-15 is the first in a series of five satellites designed to improve weather forecasting and monitor global environmental events. Operating over the next 12 years, the satellites will “scan” the Earth, yielding continuous images of cloud cover, atmospheric temperatures, moisture and aerosol distributions, and surface parameters such as snow, ice, and vegetation.

Geostationary GOES-10

Combined with data from Doppler Radars and automated surface observing systems, the real-time weather data gathered by GOES satellites greatly aid weather forecasters in providing better warnings of thunderstorms, winter storms, flash floods, hurricanes, and other severe weather.

A New Generation of NOAA Weather Radio

Significantly expanded coverage now safeguards a much broader public, providing 24-hour access to potentially life-saving information. Like an alarm clock, the newest models can sound an alarm when hazards threaten.

Dial-A-Buoy

This service allows mariners to call in for the latest coastal and offshore weather reports. Wind and wave measurements taken within the hour are now available at 65 buoys and 54 Coastal Marine Automated Network stations located in coastal waters around the country and in the Great Lakes.

Improve Marine Transportation

Accomplishments

Rapid Production of Nautical Charts

NOAA significantly reduced the time it takes to produce critical nautical charts with newly collected data – from two years to four weeks – and now produces the charts in electronic as well as in traditional paper formats.

Accurate Maps and Surveys

NOAA now operates shallow-water multibeam and sidescan sonar systems on its hydrographic vessels for full-bottom survey coverage. Surveys include the detection, location, and identification of wrecks and obstructions as well as the accurate determination of the depths and configuration of water bodies.

Scope of Hydrographic Surveys

NOAA’s hydrographic survey vessels and contract surveyors performed surveys of over 1,200 square nautical miles in 1998, which is three percent of the total 43,000 square nautical miles that most needed surveying. NOAA further mapped 10 percent of the shoreline most critical to updated charts.

Data in Real-Time

NOAA continues to provide quality assurance for real-time data on water levels, currents, and weather conditions for some of the nation’s busiest ports. NOAA has increased the network of reference stations delivering high-accuracy, quality-controlled Global Positioning System data to mariners and other users.

Improve Marine Fish Management

Accomplishments

Implementation Plan for the Code of Conduct

NOAA has developed a plan for the domestic implementation of all principles addressed in the Code of Conduct for Responsible Fishing. This plan advances the Code of Conduct adopted in 1995 by the Food and Agriculture Organization of the United Nations, a universally acclaimed global ethic for fisheries practices worldwide.

FAO Implementation Plan of Action

After spearheading international participation in the implementation plan of the Food and Agriculture Organization, NOAA is developing a national plan to manage and conserve sharks and to reduce bycatch of seabirds in longline fisheries.

Sustainable Fisheries Act

With the initial round on implementing the Sustainable Fisheries Act of the Magnuson-Stevens Act nearly completed, NOAA has established a foundation for the future management of fisheries. NOAA will continue working with commercial and recreational fishing interests, federal and state governments, and others to develop and implement safeguards that protect essential habitats.

New England Stocks Recovering

Many New England overfished stocks are beginning to show signs of recovery. The 1998 class of haddock, for example, is the largest in 20 years. The Georges Bank cod stock biomass has increased 43 percent above the record low level of 1995. Additional scallop harvests in once-closed areas have added \$40 million to southeast New England fishing communities.

Fishing Capacity Reduction Initiative

This groundbreaking vessel buyout in the severely overcapitalized New England fishery was the nation's inaugural voluntary buyback program. Scrapping 68 groundfish vessels and revoking 68 groundfish limited-entry permits, this program helps to both address the issue of overcapacity and assist the remaining fishers to achieve greater earning potential. An additional 400 permits were revoked to help reduce groundfish bycatch.

Sound Management

The North Pacific groundfish fishery remains the most biologically and environmentally productive in U.S. waters.

Save Endangered and Threatened Species

Accomplishments

California Gray Whale has Recovered

Previously hunted to near extinction, this marine mammal is the first to be taken off the endangered species list.

Habitat Conservation for Pacific Salmon

Working with the private sector, NOAA successfully developed a Habitat Conservation Plan to guide harvest practices in northern California in 210,000 acres of company lands for the next 50 years. Completing this plan was key to preserving the 9,500-acre Headwaters Forest and additional old-growth woodland. The plan protects salmon-bearing streams.

Salmon Recovery Plan Developed

In the Pacific Northwest, a comprehensive recovery plan has been developed for Snake River sockeye, spring/summer chinook, and fall chinook salmon.

Innovative Technologies Help Sea Turtles

Developed and continually improves, these technologies allow endangered sea turtles to escape safely from shrimping nets in the Southeast.

“Dolphin-Safe Tuna”

Through international cooperation, tuna caught in the eastern tropical Pacific Ocean are now “dolphin-safe,” ensuring the health of dolphin stocks. Mortality rates for the dolphins dropped from over 120,000 in 1986 to less than 3,000 in 1997.

Endangered Right Whales Tracked

To help maintain fragile stocks, satellites are tracking Right Whales off the New England coast.

Protect Coastal Resources

Accomplishments

Hosted National Ocean Conference

With the Department of Navy, NOAA hosted a national conference in 1998 to draw attention to key ocean resources and issues, including coastal and ocean navigation and transportation, coastal habitat, fishing resources, and the interaction of ocean processes on weather and climate. The conference generated extensive national and international information on ocean issues and produced new presidential initiatives, future budget commitments, and federal policies regarding ocean activities.

Led *Pfiesteria* Efforts

With the Environmental Protection Agency, NOAA led federal efforts to assist state and coastal communities in assessing, monitoring, and responding to harmful algal bloom outbreaks such as *Pfiesteria* and red and brown tides. Research grants were also provided to a number of key scientists to help improve understanding of the conditions and behavior of these harmful marine episodes.

Launched New Partnerships for Ocean Exploration

NOAA initiated new partnerships to explore the deep ocean. Sustainable Seas is a partnership with the National Geographic Society and the Goldman Foundation to use new underwater technologies to explore the biological diversity and other characteristics of deep ocean areas within NOAA’s 12 National Marine Sanctuaries. In addition, NOAA’s National Sea Grant Program continues to support research partnerships that have identified several new chemical products from marine organisms that offer promise for pharmaceutical development.

Protected and Restored Coastal Habitats

During 1998, NOAA responded to over 87 spills of hazardous materials in coastal waters and numerous groundings of vessels and other incidents impacting marine resources. NOAA further led or participated in over 25 major efforts to restore damaged coastal habitats from coral reefs to coastal wetlands; restored over 14,000 acres of coastal wetlands; added Georgia as the newest state member of the Coastal Zone Management Program; designated the Jacques Cousteau Reserve at Mullica River and the Great Bay Reserve, both in New Jersey, as the newest National Estuarine Research Reserves; and opened the new Cooperative Institute for Coastal and Estuarine Environmental Technology to research and develop new tools for coastal monitoring and restoration, among other areas.

PRESIDENT CLINTON AND VICE PRESIDENT GORE:
Protecting our Environment and Public Health
A Record of Accomplishment

"From our inner cities to our pristine wild lands, we have worked hard to ensure that every American has a clean and healthy environment. We've rid hundreds of neighborhoods of toxic waste dumps, (and) taken the most dramatic steps in a generation to clean the air we breathe.... We have made record investments in science and technology to protect future generations from the threat of global warming. We've worked to protect and restore our most glorious natural resources, from the Florida Everglades to California's redwoods...to Yellowstone. And we have, I hope, finally put to rest the false choice between the economy and the environment, for we have the strongest economy perhaps in our history, with a cleaner environment."

-- President Clinton
January 11, 2000

Protecting America's Natural Treasures

- ***Preserving our Lands Legacy.*** Seeking permanent funding of \$1.4 billion a year through the Lands Legacy initiative to expand federal efforts to save America's natural treasures and provide significant new resources to states and communities to protect local green spaces and protect ocean and coastal resources. Won \$652 million for Lands Legacy in the FY 2000 budget, a 42 percent increase.
- ***Protecting America's Forests.*** Launched effort to protect over 40 million acres of "roadless areas," which include some of America's last wild places. Dramatically improved management of our national forests with an ambitious new science-based agenda that places greater emphasis on recreation, wildlife and water quality, while reforming logging practices to ensure steady, sustainable supplies of timber and jobs. Balanced the preservation of old-growth stands with the economic needs of timber-dependent communities through the Pacific Northwest Forest Plan.
- ***Creating New National Monuments.***
 - ***Protecting Utah's Red Rock Canyon.*** Created the Grand Staircase-Escalante National Monument in Utah, protecting 1.7 million acres of spectacular red rock canyonlands, artifacts from three ancient cultures, and the most remote site in the lower 48 states.
 - ***Protecting the North Rim of the Grand Canyon.*** Designated the new Grand Canyon-Parashant National Monument in Arizona to protect just over 1 million acres of deep canyons, mountains, and buttes on the north rim of the Grand Canyon.
 - ***Saving Prehistoric Treasures.*** Created the Agua Fria National Monument 40 miles north of Phoenix, which features some of the most extensive prehistoric ruins in the Southwest, including spectacular petroglyphs, terraced agricultural areas, and rock pueblos.

- ***Preserving Coastal Riches.*** Created the California Coastal National Monument encompassing thousands of federally owned islands, rocks, and reefs off the California Coast providing critical feeding and nesting grounds for seabirds.
- ***Expanding a 92-Year-Old National Treasure.*** Expanded California's Pinnacles National Monument, created by President Roosevelt in 1908, to preserve the monument's unique geologic resources.
- ***Defending the World's First National Park.*** Reached an historic agreement to halt the massive New World mine three miles outside Yellowstone National Park, protecting the area from toxic runoff and other threats. Protected 9,300 acres in the Royal Teton Ranch adjoining Yellowstone National Park, a critical step to preserve the famed bison and geysers of America's first national park.
- ***Restoring the Florida Everglades.*** Secured nearly \$1.2 billion for Everglades restoration over the past five years. Proposed a \$7.8 billion plan to nearly double the amount of fresh water available in South Florida, ensuring clean, plentiful flows for the Everglades, and adequate supplies for the region's cities and farms. Worked in close partnership with interested parties to acquire and protect critical lands, accelerate scientific research and strengthen water quality programs targeted at restoring the Everglades. Added nearly 70,000 acres to Everglades National Park.
- ***Saving California's Ancient Redwoods.*** Forged an agreement and secured \$250 million in federal funds to preserve the Headwaters ancient redwood forest in Northern California, saving trees up to 2,000 years old and protecting critical habitat for threatened and endangered species.
- ***Restoring the California Bay-Delta Ecosystem.*** Secured \$190 million to help restore the California Bay-Delta ecosystem through CALFED -- a joint Federal-state initiative to develop a long-term strategy to ensure adequate water supplies to meet the state's urban, agricultural, and environmental needs -- plus \$30 million for Bay-Delta water management activities supporting CALFED's long-term objectives.
- ***Improving Our National Parks.*** Issued new standards to clear the haze and restore pristine skies to our national parks. Signed Omnibus Parks legislation that creates or improves over 100 national parks, trails, rivers, and historical sites. Created Death Valley National Park, the largest park in the lower 48 states, and Mojave Desert National Preserve in the California Desert. Blocked attempts in Congress to close some national parks and expand road building in others.
- ***Protecting Natural and Historic Sites.*** Protected scores of natural and historic sites around the country by securing over \$2.5 billion over the past seven years through the Land and Water Conservation Fund for acquisition of threatened lands. Projects include completing the Appalachian Trail, protecting Civil War battlefields, and preserving New Mexico's majestic Baca Ranch.
- ***Safeguarding the Arctic Refuge.*** Turned back attempts by Congress to open the Arctic National Wildlife Refuge to oil and gas drilling.

- ***Forging Conservation Partnerships with Farmers.*** Provided farmers with new conservation tools by proposing and signing a Farm Bill that authorized \$2.2 billion in additional funding for conservation programs such as the Conservation Reserve and Wetlands Reserve. Created new federal-state partnerships that targeted over \$1 billion -- in Illinois, Maryland, Minnesota, New York, Oregon, and Washington -- for farmers and ranchers to voluntarily remove lands from production to improve water quality and wildlife habitat.

Ensuring Public Health

- ***Cleaning Up Auto Emissions.*** Adopted a uniform tailpipe standard to passenger cars, SUVs and other light-duty trucks, producing cars that are 77 percent cleaner -- and light-duty trucks up to 95 percent cleaner -- than those on the road today. Set new standard to reduce average sulfur levels in gasoline by up to 90 percent. Once fully implemented in 2030, these measures will prevent 43,000 premature deaths and 173,000 cases of childhood respiratory illness each year, and reduce emissions by the equivalent to removing 164 million cars from the road.
- ***Strengthening Clean Air Protections.*** Approved strong new clean air standards for soot and smog that could prevent up to 15,000 premature deaths a year and improve the lives of millions of Americans who suffer from respiratory illnesses. Defending the standards against legal assaults by polluters.
- ***Accelerating Toxic Waste Cleanups.*** Completed cleanup at 515 Superfund sites, more than three times as many as the previous two administrations, with cleanup of more than 90 percent of all sites either completed or in progress. Secured \$1.4 billion in FY 2000 to continue progress toward cleaning up 900 Superfund sites by 2002.
- ***Providing Safe Drinking Water:*** Proposed and signed legislation to strengthen the Safe Drinking Water Act and ensure that our families have healthy clean tap water. Required America's 55,000 water utility companies to provide regular reports to their customers on the quality of their drinking water.
 - Established EPA's Drinking Water State Revolving Fund (DWSRF) that provides grants to States to finance priority drinking water projects that meet Clean Water Act mandates. To date, the DWSRFs have provided \$1.9 billion in loans to communities.
 - Awarded nearly \$200 million in Department of Agriculture (USDA) loans and grants for over 100 safe drinking water projects in rural areas of 40 states. USDA grants and loans target rural communities plagued by some of the nation's worst water quality and dependability problems.
- ***Ensuring Clean Water.*** Launched the Clean Water Action Plan to help clean up the 40 percent of America's surveyed waterways still too polluted for fishing and swimming. Secured \$3.9 billion since 1998, a 16 percent increase, to help states, communities and landowners in reducing polluted runoff, enhancing natural resource stewardship, improving citizens' right to know, and protecting public health.

- ***Strengthening Communities' Right to Know.*** Strengthened the public's right to know about chemicals released into their air and water by partnering with the chemical industry and the environmental community in an effort to provide complete data on the potential health risks of the 2,800 most widely used chemicals. Nearly doubled the number of chemicals that industry must report to communities, while expanding the number of facilities that must report by 30 percent.
 - Expanded the community right to know about releases of 27 persistent bio-accumulative toxins (including mercury, dioxin, and PCBs). These highly toxic chemicals are especially risky because they do not break down easily and are known to accumulate in the human body.
- ***Making Children's Health a Priority.*** Signed an Executive Order to reduce environmental health and safety risks to children. Requires federal agencies to coordinate their research priorities on children's health and to ensure that their standards take into account special risks to children.
- ***Improving Food Safety Standards.*** Streamlined the regulation of pesticides and put important new public-health protections in place, especially for children, by signing the Food Quality Safety Act.

Protecting Wildlife

- ***Restoring a National Symbol.*** Initiated action to remove the American Bald Eagle from the endangered species list. There are now nearly 6,000 pairs of bald eagles in the lower 48 states, compared to just 3,300 pairs in 1992.
- ***Saving Pacific Salmon.*** Secured \$83 million in FY 2000 for two major new efforts to restore salmon in the Pacific Northwest: \$58 million for the Pacific Coastal Salmon Recovery Fund, which provides resources for states and tribes to protect and rebuild salmon stocks; and \$25 million to implement the historic Pacific Salmon Treaty with Canada, which established two regional funds to improve fisheries management and enhance bilateral scientific cooperation between the two countries and provides funding to buy back fishing permits in Washington.
- ***Expanding Wildlife Refuges.*** Added 57,000 acres, including lands along the last free-flowing section of the Columbia River, to the Saddle Mountain National Wildlife Refuge to protect salmon habitat in Washington.
- ***Forging Partnerships to Protect Habitat.*** Completed 255 major Habitat Conservation Plans (HCPs), compared to 14 before the Administration took office, to protect more than 20 million acres of private land and over 170 threatened and endangered species. These voluntary agreements protect habitat while providing landowners the certainty they need to effectively manage their lands.

- ***Strengthening Protections for Wildlife.*** Signed legislation that strengthens protections for wildlife by mandating that the most important use of our nation's wildlife refuges is giving refuge to migratory birds and other animals reliant on this rich system of natural habitat.

Protecting our Oceans and Coasts

- ***Blocking Offshore Oil Drilling.*** Extended the moratorium on new oil leasing off most of the U.S. coast through 2012, and permanently barred new leasing in national marine sanctuaries.
- ***Creating Comprehensive Oceans Policy.*** Directed the development of key recommendations for strengthening federal oceans policy for the 21st century and appointed a high-level task force to oversee the implementation of those recommendations. Convened a National Ocean Conference in June 1998 that brought together government experts, business executives, scientists, environmentalists, elected officials and the public to examine opportunities and challenges in restoring and protecting our ocean resources.
- ***Strengthening Our National Marine Sanctuaries.*** Secured a funding increase of over 100% to better support national marine sanctuaries -- homes to coral reefs, kelp forests, humpback whales, and loggerhead turtles. Supporting the five-year Sustainable Seas Expeditions to explore, study and document ways to better protect underwater resources.
- ***Preserving Coral Reefs.*** Issued an Executive Order to expand protection of coral reefs and their ecosystems to address issues of coral reef management, expansion of marine protected areas and increased protections for coral reef species.
- ***Protecting Marine Mammals.*** Led negotiations resulting in a multilateral agreement to protect dolphins in the eastern tropical Pacific Ocean. Issued new standards to protect the endangered northern right whale from injuries from ships by instituting a first-ever ship reporting requirement in two areas of right whale critical habitat. Fought for creation of the Southern Ocean Whale Sanctuary, an area of more than 12 million square miles off the coast of Antarctica.
- ***Banning Ocean Dumping of Toxic Waste.*** Led the world in calling for a global ban on ocean dumping of low-level radioactive waste. The U.S. was the first nuclear power to advocate the ban.

Building Sustainable Communities

- ***Encouraging Smart Growth.*** Launched a nationwide Livable Communities initiative -- spearheaded by Vice President Gore -- to help communities across America grow in ways that ensure a high quality of life and strong, sustainable economic growth. The initiative provides communities with new tools and resources to preserve green space, ease traffic congestion, and pursue regional "smart growth" strategies.
 - Introduced "Better America Bonds" to generate \$10.75 billion in bond authority over five years to preserve open space, improve water quality and clean up abandoned and

contaminated properties known as brownfields. Local communities can work together in partnerships with land trust groups, environmentalists, business leaders and others to develop innovative solutions to their community's development challenges.

- Won \$8.2 billion in FY 2000, a 10 percent increase, for public transit and other programs that reduce air pollution while easing traffic congestion.
- ***Revitalizing Communities.*** Accelerated the cleanup of brownfields, clearing the way for local redevelopment while protecting green areas outside our cities. Leveraged over \$1.6 billion in private sector investment for brownfields redevelopment. Secured a tax incentive that allows businesses to fully deduct certain brownfields cleanup costs in targeted areas through 2001.
- ***American Heritage Rivers.*** Designated fourteen American Heritage Rivers to recognize and reward outstanding community-based efforts to restore and protect the environmental, economic, cultural and historic values of our rivers. Appointed a "river navigator" for each designated river to help communities identify federal programs and resources to help implement their restoration plans.
- ***Environmental Justice and Redevelopment.*** Issued an Executive Order on Environmental Justice to ensure that low-income citizens and minorities do not suffer a disproportionate burden of industrial pollution. Launched pilot projects in low-income communities across the country to redevelop contaminated sites into useable space, create jobs and enhance community development.

Taking Action on Climate Change
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- ***Forging International Agreement.*** Provided leadership critical to successful negotiation of the Kyoto Protocol, which sets strong, realistic targets for reducing greenhouse gas emissions and establishes flexible, market-based mechanisms to achieve them as cost-effectively as possible.
- ***Investing in Clean Energy Research.*** Won more than \$1 billion in FY 1999 and in FY 2000 for the Climate Change Technology Initiative, a program of clean energy research and development that will save energy and consumers money. Extended the tax credits for wind and biomass energy production through 2001, reducing emissions and reliance on imported oil.
- ***Growing Clean Energy Technologies.*** Issued an Executive Order to coordinate federal efforts to spur the development and use of bio-based technologies, which can convert crops, trees and other "biomass" into a vast array of fuels and materials. Set a goal of tripling our use of bioenergy and bioproducts by 2010 to reduce annual greenhouse gas emissions by up to 100 million tons a year -- the equivalent of taking 70 million cars off the road.
- ***Improving Scientific Understanding.*** Increased funding for the United States Global Change Research Program to more than \$1.7 billion in FY 2000 to provide a sound scientific understanding of both the human and natural forces that influence the Earth's climate system. This record research budget continues strong support for the "Carbon Cycle Initiative" begun

last year to improve our understanding of the role of farms, forests, and other natural or managed lands in capturing carbon.

- ***Energy Efficiency Standards for Appliances.*** Issued new energy efficiency standards for refrigerators, refrigerator-freezers, freezers and room air conditioners that will save consumers money and reduce emissions of greenhouse gases and dependence on foreign oil. The new standards will cut the average appliance's energy usage by 30 percent and save more than seven quadrillion BTUs of energy over the next 30 years, more than seven times the annual energy consumption of the entire state of Arkansas.
- ***Promoting federal Energy Efficiency.*** Issued an Executive Order directing federal agencies to reduce energy use in buildings 35 percent by 2010, reducing annual greenhouse gas emissions by the equivalent of taking 1.7 million cars off the road and saving taxpayers over \$750 million a year. Forged new partnerships with industry to develop and promote energy-saving cars, homes and consumer products with the potential to save Americans hundreds of millions of dollars in energy bills and significantly curb greenhouse gas pollution.

Protecting the Global Environment

- ***Phasing Out Persistent Pollutants.*** Leading global negotiations to phase out 12 of the most dangerous, persistent organic pollutants such as PCBs and DDT that threaten health and safety around the world.
- ***Healing the Ozone Layer.*** Successfully phased out CFCs (chloroflourocarbons) by 1996 and other major ozone-depleting substances by 1994. Approved the introduction of more than 300 alternatives to ozone-depleting substances. Invested more than \$300 million a year in research on atmospheric chemistry and stratospheric ozone depletion. Strengthened international efforts to protect the ozone layer through leading successful negotiations to reduce Chinese production of halons and CFCs faster than required by the Montreal Protocol and securing an accelerated international schedule for the phase-out of methyl bromide, a leading ozone depleter.
- ***Promoting Environmentally Responsible Trade.*** Ensuring that U.S. efforts to expand trade reflect a strong commitment to promoting environmental protection worldwide. Signed an Executive Order requiring careful assessment and written review of the potential environmental impacts of major trade agreements so environmental considerations can guide the development of U.S. positions in trade negotiations. Issued a declaration of principles on trade and environment instructing negotiators at the World Trade Organization negotiations to ensure that trade rules continue to be supportive of environmental protections at home and abroad.

Greening the Government

- ***Expanding Recycling.*** Issued an Executive Order requiring federal agencies to buy and use only recycled printing paper and increase efforts to buy environmentally preferable products. The order harnesses the federal government's \$200 billion purchasing power to help create and sustain markets for recycled materials. Americans recycle 22 million tons more material than in 1992 -- thanks to that effort, the United States will discard less waste in 2000 than in 1992.

- ***Greening of the White House.*** Employed energy-saving measures and other environmentally-friendly steps at the White House complex, reducing annual greenhouse gas emissions by 845 tons per year, significantly reducing use of water and fertilizer, and saving taxpayers nearly \$1.4 million since 1993.

Defending Our Environment Against Stealth Attacks
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- ***Guarding Landmark Protections.*** Blocked attempts by Congress to roll back landmark environmental laws like the Clean Water Act, the Clean Air Act, and the Endangered Species Act. Thwarted congressional actions to “reform” the regulatory system by requiring taxpayers to pay polluters not to pollute and weakening our nation’s food safety laws.
- ***Blocking Special Interest Loopholes and Giveaways.*** Defeated congressional efforts to attach dozens of anti-environmental riders to budget bills. These riders would have rolled back hard-won environmental safeguards and given special deals to special interests by: allowing overcutting of our national forests and jeopardizing the President’s plan to protect more than 40 million acres of roadless areas; allowing mining companies to dump more toxic waste on public lands and delaying critical mining reforms; letting major oil companies continue paying below-market royalties on oil developed on federal lands; crippling critical protections for wetlands and wildlife; and attempting to block common-sense actions to reduce greenhouse gas pollution.

Sample success stories

THE RETURN OF THE ATLANTIC STRIPED BASS

In 1993, record numbers of striped bass, or rockfish, were hatched in the Chesapeake Bay, astounding scientists and creating a resurgence of one of the most important commercial and recreational fisheries on the East Coast. Striped bass migrate all along the Atlantic Coast, and most spawn in the tidal waters of the Chesapeake Bay, the nation's largest estuary.

Today's optimism stands in sharp contrast to the devastating conditions facing the Atlantic striped bass a decade ago. At that time, overharvesting and pollution led to a near collapse of the fishery and forced federal and state lawmakers to impose fishing restrictions. Notably, in 1984, Congress passed the Atlantic Striped Bass Conservation Act which allowed the Atlantic States Marine Fisheries Commission to develop a coastwide management plan to restore the striped bass. The plan called for severely restricted harvesting of the fish all along the Atlantic Coast, from Maine to North Carolina. Maryland took action within its fishing waters, imposing a five-year moratorium on harvesting striped bass beginning in 1985. Virginia followed suit in 1989. By 1990, promising signs of rebounding hatches allowed both states to lift their moratoria and the commission to ease its restrictions. Three years later, the number of young striped bass was the largest ever recorded. By 1994, the striped bass was declared a recovered resource, although special regulations are still in effect to ensure the fishery's long-term health.

The plan's success rested on the cooperation among commercial and recreational fishermen along the Atlantic seaboard, states and the federal government, and agencies within the federal government. The interagency, interstate cooperative approach taken is now considered a model for other fishery management plans. Says Bill Matuszeski, director of the U.S. Environmental Protection Agency's Chesapeake Bay Program Office, "It is a great example of how coordinated fisheries management, increased habitat, and improved water quality can bring an important fish species back from the precipice to an economically and ecologically restored state."

PATTONSBURG: A TOWN RENEWAL

In Pattonsburg, Missouri, a small community of 250 that was nearly destroyed by the Midwest floods of 1993, a federally supported design team is working with residents to move the town — literally — to higher ground.

The community seized this opportunity to incorporate concepts and technologies for sustainability at all levels of their relocation scheme, from the physical structure of the new town to economic strategies for redevelopment.

Pattonsburg adopted a Charter of Sustainability — a set of principles to guide the town's development — as well as building codes to ensure energy and resource efficiency while preserving the community's character. It also created a privately funded Sustainable Economic Development Council to spearhead the expansion of environmentally responsible industry in the town.

Plans for the new town include use of the latest environmentally sensitive technology and eco-efficient design to meet the community's social and physical needs. The street layout is designed to be pedestrian-oriented and to maximize southern exposure to each home, giving residents the best opportunity to use passive solar heating to lower energy needs. A system of artificial wetlands will use the natural contours of the land to capture and treat polluted urban runoff, thereby saving money on sewer construction. A methane recovery system will help nearby swine farms convert an odor and pollution problem into energy.

Pattonsburg is an example of collaboration among local, county, state, and federal governments. It is also a noteworthy public-private sector partnership. Most importantly, it is grounded in broad-based community involvement and support. It shows how a rural community can turn tragedy into an extraordinary opportunity to shape a sustainable future.

REVITALIZING BROWNFIELD SITES

To make Cleveland, Ohio, the comeback city envisioned by civic leaders, urban revitalization has to overcome the barriers posed by brownfields — the contaminated and/or abandoned industrial sites found in many central cities. Cleaning up brownfields entails investments and risks that make the uncontaminated greenfields in outlying areas much more attractive sites for industry and other businesses. But unless brownfields are successfully redeveloped, there is little hope for a renewed and vibrant metropolitan core.

In the Cleveland metropolitan region, a coalition of businesses, community development corporations, Cuyahoga County officials, neighborhood groups, and other citizens is working to develop brownfield sites in the city. The number of vacant parcels of land in Cleveland increased from 9.8 percent in 1977 to 12.5 percent in 1987, according to the Center for Urban Poverty and Social Change. Filling up some of these parcels and redeveloping others in the face of such problems as increased and uncertain costs, liability, cleanup standards, and regulatory burdens has presented Cleveland with a strategic challenge.

The Cuyahoga County Planning Commission convened a symposium in October 1992 to discuss brownfield redevelopment strategies as part of an effort to counteract sprawl in the metropolitan region. Following up on the symposium, a multistakeholder Brownfields Working Group analyzed the problem of brownfields and made recommendations to the planning commission in July 1993. Since then, a voluntary cleanup law has been enacted in Ohio, and Cleveland has received funding from the U.S. Environmental Protection Agency for two demonstration projects. The planning commission is using a \$198,000 grant from the agency to streamline remediation and redevelopment of at least three brownfield sites. As part of the project, the commission is to identify financial and regulatory barriers and recommend ways to remedy them. The project is expected to help cities across the nation resolve their own brownfield problems.

EXAMPLES OF MEASURES OF ENVIRONMENTAL PROGRESS

Cleanest in a Generation

Number of days of unhealthy air quality (1,333 cities)

1988	1,987
1992	712
1996	480

Population in areas with air quality exceeding federal standards

1988	121.0 million
1996	46.6 million

Toxic releases to land, water and air (Toxic Release Inventory) down 46% from 1988 to 1996

1988	3.35 billion pounds
1996	1.82 billion pounds

Safer drinking water:

Since 1993, 10 million more Americans receive drinking water that meets all federal health standards. Eighty-six percent of America's tapwater meets all federal standards.

Accelerated toxic cleanup:

Of 1258 priority Superfund sites, 155 were cleaned up as of 12/92 (under the two prior Administrations), and another 430 (nearly three times as many) have been cleaned up since.

A Growth Industry

Environmental industries:

Employment:	1980	462,500
	1996	1,300,000
Revenues:	1980	\$52 billion
	1996	\$184 billion

**PRESIDENT CLINTON AND VICE PRESIDENT GORE:
LASTING PROTECTION FOR AMERICA'S LANDS LEGACY**

February 7, 2000

President Clinton's FY 2001 budget will propose a record \$1.4 billion to protect land and coastal resources -- and will seek dedicated funding at this level each and every year to ensure continued efforts to preserve America's natural heritage. This proposed Lands Legacy funding would provide significant new resources to states and communities to protect wildlife and local green spaces, support federal efforts to save natural and historic treasures, and expand efforts to protect ocean and coastal resources.

Making our Lands Legacy Permanent. President Clinton secured \$652 million in FY 2000 for the Lands Legacy initiative, a 42 percent increase. For FY 2001, the President is proposing \$1.4 billion, the largest one-year investment ever in conserving America's lands. The President also is proposing a new budget category to preserve this higher level of funding in future years. More than half the funding would support state and local conservation efforts. Specific appropriations within the \$1.4 billion cap would be decided each year. These dedicated funds could not be spent on purposes other than Lands Legacy, and if funds are not appropriated in any given year, the cap would rise by a corresponding amount the next year. This would create a lasting endowment future generations can draw on to protect precious land and coastal resources.

Helping Communities Protect Wildlife and Open Space. This year, Lands Legacy is providing \$141 million to state, local, and tribal governments to help protect wildlife and local green spaces. In FY 2001, the President is proposing \$521 million, almost four times current funding. Priorities include:

- Wildlife Protection -- \$100 million for a new grant program to help states protect non-game wildlife by acquiring, protecting, and enhancing critical habitat; and \$65 million, a 183 percent increase, to support habitat conservation plans and other collaborative tools that protect endangered species.
- Land Acquisition Grants -- \$150 million, almost four times current funding, for matching grants to states to acquire land or easements for parks, greenways, recreation, wetlands, and wildlife habitat.
- Urban Parks and Forests -- \$20 million, a tenfold increase, to restore parks in distressed urban neighborhoods; and \$40 million to establish, expand and maintain urban and community forests.
- Forest and Wetland Protection -- \$60 million to buy conservation easements on private forestland threatened by development; and \$30 million for matching grants to protect and restore wetlands.
- Farmland Protection -- \$65 million in mandatory funding (over and above the \$1.4 billion cap) for matching grants to protect more than 130,000 acres of farmland threatened by development.

Saving Natural and Historic Treasures. In FY 2001, the President is proposing \$450 million, a 7 percent increase, for federal land acquisitions. Priorities include:

- Lower Mississippi Delta -- \$6.5 million to protect bayous and wetlands in Arkansas and Louisiana.
- Giant Sequoias -- \$4 million to protect ancient sequoias in California's Sierra Nevada.
- Everglades -- \$80 million to continue Everglades restoration and to expand Florida wildlife refuges
- Civil War Battlefields -- \$22 million to protect Gettysburg, Masassas, Harpers Ferry and other sites.
- Lewis and Clark Trail -- \$15.1 million to protect the explorers' historic route along the Missouri River.

Providing Special Assistance to Coastal Areas. The President is proposing \$429 million, a 159 percent increase, for programs that protect ocean and coastal resources, including:

- Coastal Impact Assistance Grants -- \$100 million for a new program to help coastal states address the environmental impacts of existing offshore oil and gas development.
- Pacific Northwest Salmon Fund -- \$100 million, a 72 percent increase, to help state, local and tribal efforts to restore thriving runs of wild coastal salmon.

Other priorities include \$159 million to states to protect, restore, and revitalize coastal areas; \$35 million, a 38 percent increase, to protect and expand national marine sanctuaries; \$15 million, a 150 percent increase, to protect and rebuild coral reefs; and \$20 million for estuary research.

January 24, 2000

MEMORANDUM TO CABINET SECRETARIES

CC: THURGOOD MARSHALL, JR.

FROM: JOHN PODESTA

SUBJECT: EARTH DAY 2000

Earth Day 2000 on April 22nd will mark the 30th anniversary of Earth Day, as well as the first Earth Day of the new century. The health and well-being of our people, our natural resources and of the planet as a whole will certainly be one of the greatest challenges of the new Millennium; there will be unprecedented focus on these issues in conjunction with Earth Day.

Earth Day 2000 represents a major opportunity to highlight Clinton-Gore environmental accomplishments and to launch significant new initiatives. To build on the President's priorities, we are likely to highlight two themes: combating global climate change and protecting precious lands.

The President and the Vice President have been very clear about their personal commitment to environmental issues. Given the importance of Earth Day, I encourage you to make this a high priority for your agency in the next several months. I have asked George Frampton of the Council on Environmental Quality to coordinate the Administration's plan for Earth Day. In addition, I plan to convene a meeting with Cabinet and agency representatives in the near future to begin planning the Administration's Earth Day strategy. Details of the meeting will follow.

Thank you.



Americans Willing to Pay for Improving Schools

Willingness to Pay
Morning Edition
September 7, 1999

Public Approves of Higher Taxes for Schools, but Insists on Fairness in How the Money Is Spent; Support Weak for Vouchers, Unclear for Charter Schools

Purpose of Education

All Things Considered
September 7, 1999

Take or Read the Survey!

Different Perceptions

Morning Edition
September 8, 1999

Don't Knows
All Things Considered
September 9, 1999

Overview
Talk of the Nation
September 9, 1999

Politics: Do People Vote on Education?
All Things Considered
September 10, 1999

Race Differences
Weekend Edition
Saturday
September 11, 1999

Vouchers
Weekend All Things Considered
September 11, 1999

Financing II: Equalization
Weekend Edition
Sunday
September 12, 1999

A new survey on education released today shows that Americans think education is so important they are willing to pay substantially higher taxes for specific improvements. Although parents generally are enthusiastic about their children's schools, they believe other schools in their community aren't as good and schools across the nation are even worse. There is strong support across the board for many improvements - from enforcing academic standards to paying teachers more and fixing up rundown schools. But a majority opposes one of the most controversial reform proposals, vouchers. However, the survey indicates vouchers are a volatile issue, with opinions subject to change, and on another controversial reform, charter schools, Americans are even less certain about their opinion. Reports based on the National Public Radio/ Kaiser Family Foundation/ Kennedy School of Government survey on education will be aired on NPR beginning Tuesday, September 7, 1999.

Key findings include:

Spending and Reform

- The survey identified strong public support for educational reforms, even if it means paying higher taxes. Three out of four Americans say they would be willing to have their taxes raised by at least \$200 a year to pay for specific measures to improve community public schools; more than half (55%) say they would be willing to have their taxes raised by \$500. Only 16% say they would NOT pay even an additional \$100 for this purpose.
- When asked whether states should spend the same amount of money on all students, more than four out of five Americans (83%) support equalizing school funding even if it means taking funding from wealthy school districts and giving it to poor districts. Furthermore, nearly 70% think wealthy districts' spending should be "capped so that poor districts are not left behind"; fewer than three in 10 (27%) think wealthy school

districts should be able to spend as much as they want.

- Americans are divided on school vouchers: 54% oppose vouchers and 42% favor them. However, about half change their position - in both directions - when confronted with arguments against their initial position. This indicates that the debate over vouchers is still an open one. Moreover, 66% of parents of children in public schools say they would not take advantage of a voucher program, even if it paid all the tuition for them to send their child to a different school.
- On public charter schools, another controversial reform, more Americans favor them than oppose them, but 63% say they haven't heard enough about charter schools to have an opinion about them.
- The public is split over what the underlying purpose of schools should be, but teaching the basics seems to have an edge over other activities. In one question, about half (52%) think schools have gotten too far away from basics, although 41% say that schools need to teach students about a broader range of subjects than they used to because the world is more complex today. In another question, asking which is a more important role for schools, 52% choose giving students academic skills and other knowledge to prepare them for a job or college over developing students' character so they can make responsible decisions as adults (34%) - but 13% volunteer "both" as an answer to the question.

Education Seen As a Top National Issue

- The public thinks education is one of the top problems facing the country today. While crime is cited as the No. 1 national problem, education and drugs round out the top three. Non-parents (14%) are just as likely as parents (13%) to cite education as their primary concern.

"My School Is OK, But Yours Isn't"

- Parents give high marks to their children's schools (71% rate them A or B) but are less enthusiastic about schools in their community (60% rate them A or B) and think even less about the nation's schools overall (only 23% rate them A or B; 18% give them a D or F). This means that although parents may have underrated the nation's schools, they clearly tended to overrate their own children's schools and their community's schools as well; not everyone can be above average.
- Parents think the nation's public schools have more serious problems than schools in their local community. The majority of parents named six concerns as major problems facing schools in the nation. But none of these was identified by a majority of parents as major problems in their own community's schools:

- Undisciplined and disruptive students (71% say it's major problem in schools nationwide; 40% say it's a major problem in their community's schools)
- Lack of parental involvement (68% nationwide; 43% community)
- Overcrowded classrooms (64% nationwide; 44% community)
- Violence and school safety (63% nationwide; 31% community)
- Students' use of alcohol and drugs (62% nationwide; 44% community)
- Inequality in funding among school districts (54% nationwide; 36% community)

Take or Read the Survey!

The NPR/Kaiser/Kennedy School Poll is an ongoing project of National Public Radio, the Henry J. Kaiser Family Foundation, and Harvard University's Kennedy School of Government. Representatives of the three sponsors worked together to develop the survey questionnaire and to analyze the results, with NPR maintaining sole editorial control over its broadcasts on the surveys.

The project team includes:

From NPR: Marcus D. Rosenbaum, Special Projects Editor.

From the Kaiser Family Foundation: Mollyann Brodie, Vice President, Director of Public Opinion and Media Research; and Ana Maria Arumi, Research Associate.

From the Kennedy School: Robert J. Blendon, a Harvard University Professor who holds joint appointments in the School of Public Health and the Kennedy School of Government; and John Benson, Deputy Director for Public Opinion and Health/Social Policy at the Harvard School of Public Health.

Methodology:

The results of this survey are based on nationwide telephone interviews administered by ICR/International Communications Research, between June 25 and July 19, 1999, with 1,422 adults, 18 years or older (570 were parents and 852 were non-parents). In this survey, parents are defined as adults who have children in grades K-12. Non-parents are defined as adults who either do not have children or whose children are not in grades K-12. The margin of sampling error is plus or minus 3 percentage points. For results based on subsets of respondents the margin of error is higher.

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These are the answers to all the questions that were asked in the survey. Question numbers are not a

skip to a section:

A. Education as a Problem | B. Screen for Parents | C. Ratings of Schools | D. Participation | E.

1. What do you think are the two most important problems facing the country?
This was an open-ended question, with no suggested response.

	Total	Parents	Non-parents
Abortion	*	1	*
AIDS	1	1	1
Campaign finance	*	-	1
Clinton/sex scandal/Lewinsky affair/impeachment trial	4	3	5
Crime/violence	26	30	25
Defense	1	2	1
Domestic/social issues (non-specific)	2	2	3
Drugs	13	15	12
The economy (non-specific)	5	5	5
Education	14	13	14
Employment/jobs	5	6	4
Environment	3	2	3
Ethics in government	12	12	12
Family values (decline of)	11	13	10
Federal deficit/budget	3	3	4
Foreign policy (non-	2	2	2

School Education Survey

	87	75	12	11	6	6	1
teachers to pass standardized competency test							

24. Here is a short list of possible changes that could cost more money and require additional t

TOTAL:

	NET	Strongly	Not strongly	NET	Not strongly	Strongly	Don't know
a. Paying teachers more	77	60	17	20	9	11	3
b. Placing more computers in classroom	81	61	20	16	8	8	2
c. Reducing class sizes	86	69	16	13	7	6	1
d. Fixing run-down schools	92	80	12	7	3	4	1
e. Adding more security at schools	76	53	23	22	13	9	2

92%
Support
fixing
run-down
schools

PARENTS:

	NET	Strongly	Not strongly	NET	Not strongly	Strongly	Don't know
a. Paying teachers more	80	63	16	18	8	10	2
b. Placing more computers in classroom	86	71	15	12	7	6	1
c. Reducing class sizes	90	75	15	10	5	5	*
d. Fixing run-down schools	94	84	10	6	2	3	1

School Education Survey

Page 16 of 25

e. Adding more security at schools	81	58	23	18	11	8	1
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NON-PARENTS:

	NET	Strongly	Not strongly	NET	Not strongly	Strongly	Don't know
a. Paying teachers more	75	58	17	21	10	11	4
b. Placing more computers in classroom	78	56	23	19	9	9	3
c. Reducing class sizes	84	66	17	15	7	7	1
d. Fixing run-down schools	91	78	13	8	3	5	1
e. Adding more security at schools	74	51	24	24	13	10	2

25. To pay for this/these change(s), would you be willing to raise your taxes by... \$100?... \$200.

	Total	Parents	Non-parents
Willing to raise taxes by \$500	55	59	53
Willing to raise taxes by \$200 but not \$500	20	20	20
Willing to raise taxes by \$100 but not \$200	9	8	10
Not willing to raise taxes by \$100 or oppose all changes	16	12	17



UNITED STATES DEPARTMENT OF EDUCATION

FAX**TO:**Paul W. BLEDSOE**FAX:**202-395-2311**FROM:****Fritz Edelstein****Director of Constituent Relations****U.S. Department of Education****PHONE: 202-401-3595****FAX:****202-260-7465****# OF PAGES:**6**(including cover sheet)****COMMENT:**

*Per your request. Call if you have questions
Fritz*

400 Maryland Avenue, S.W., Room 5E202, Washington, D.C. 20202

Our mission is to ensure equal access to education and
to promote educational excellence throughout the Nation.

EARTH DAY CONTACTS

<u>Agency</u>	<u>Name</u>	<u>Phone Number</u>	<u>E-Mail Address</u>
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DOEd	Carole Wacey	401-1444	
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OMB	Zach Church Rob Fairweather	5-6944 5-6827	
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SBA	Liz Montoya	205-6610	Elizabeth.Montoya@sba.gov
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Justice	Christine Romano	616-0903	
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Justice	Christine Romano	616-0903	

THE WHITE HOUSE
WASHINGTON

February 1, 2000

Dear Interested Party:

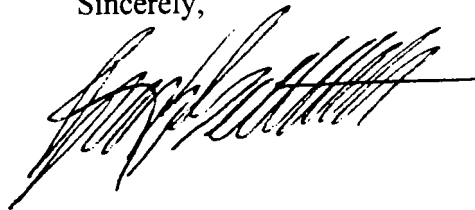
As the new year and the new millennium arrived, so did increasing recognition that global climate change will be among the most important environmental issues of the new century. I want to take this opportunity to send you some updated information on this pressing global issue.

You may have noticed the steady stream of new scientific studies suggesting that global warming is not only occurring, but occurring more rapidly than previously thought. Reports by the World Meteorological Society and the National Climatic Data Center, among others, found that since 1976 the planet has been warming at a rate of .35 degrees Fahrenheit per decade. Attached are summaries of some key studies and associated news stories that may be of interest to you.

Some say that we should not take any action until we have absolute, incontrovertible certainty about global warming and its causes. We believe, however, that the risks of inaction are too great and that balanced, prudent steps are called for now. Fortunately, the initiatives we are working on also create strong economic opportunities. The investments we are already making have helped produce new technologies to begin to address the problems of climate change. For example, new hybrid cars that get more than 80 miles per gallon of gas recently debuted at the Detroit Auto Show. This new breakthrough did not happen by accident. It was a result of the Partnership for a New Generation of Vehicles (PNGV) program created by the President and Vice President -- a joint public-private research and development initiative to produce more environmentally sound and economically viable vehicles. Fuller descriptions of this and of other recent energy technology developments follow.

The Administration will soon announce additional initiatives to fight global warming. You can expect a detailed presentation of these initiatives to reach you in the next several weeks, as part of my commitment to keep you informed of the latest information, news, and events related to global climate change.

Sincerely,

A handwritten signature in black ink, appearing to read 'Roger S. Ballentine', with a long horizontal flourish extending to the right.

Roger S. Ballentine
Deputy Assistant to the President
for Environmental Initiatives

POSSIBLE PRE-EARTH DAY EVENTS

3/20 POTUS India Trip – Clean Energy/Environment event

3/30 Meeting with Auto CEOs **VP**
PNGV concept cars
Auto tax credits
Transportation Executive Order (federal fleet)
Challenge to Automakers (?)

4/3-14 Lands Event (Baca? California Desert?)

~~Climate Impact Assessments (Health, Water, Agriculture, Coastal)~~

~~Meeting with Religious Leaders~~

~~Schools/State & Local Climate Event~~

March 18th
meeting w/ Religious
Segovia

4/17 POTUS Lands event

Week of 4/17 **7** Power plants **4/22**

4/22 Earth Day rally on Mall

Monica - out

2. Total Administration Accomplishments ←
* E.O. BOARD STRATEGY
CABINET 17-22nd - Report
Public Health

EARTH DAY NETWORK HOME
22 APRIL 2000TAKE ACTION | WORLDWIDE GOALS | GRIST MAGAZINE | PRESSROOM |
EVENTS | ABOUT EARTH DAY NETWORK | EARTH DAY STORE | FREEBIES & FUN

events

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On the Mall in Washington



Leonardo DiCaprio to Host EarthFair 2000 on the Mall in Washington, D.C. April 22, 2000

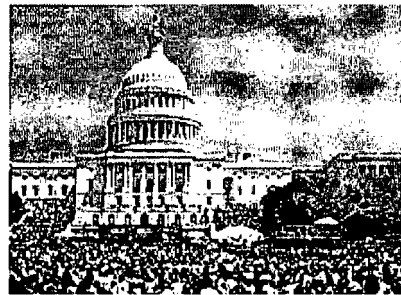
[Webcast \(requires RealPlayer\)](#) |[Transcript of webcast](#) |[Transcript of Yahoo! chat](#)

In celebration of Earth Day, April 22, 2000, thousands of communities around the world will host a wide variety of events. In the United States, the flagship event will be a huge gathering on the Mall in Washington, D.C. During a webcast on November 17, 1999, Earth Day Network announced that one of the nation's most popular celebrities, actor Leonardo DiCaprio, will serve as chairman for the Mall event.

A solar-powered stage will feature additional international entertainment and top musical acts from the U.S. Along with the entertainment, Earth Day Network will host EarthFair 2000 on the Mall -- hundreds of exhibits displaying all the elements of a sustainable society. Sun, wind, earth, water, and people will be powering exhibits, modeling central components of a clean energy future.

Each of the energy technology "pavilions" will feature hands-on activities, many involving children's activities, and opportunities for direct action. EarthFair 2000 will also recycle its trash, use clean, alternative energy, and demonstrate other ways to have a sustainable event as well as a sustainable world. We will provide visitors with examples of how to make a difference in their home, at work, everyday. ([Information and materials for EarthFair 2000 exhibitors.](#))

There will be thousands of other events, some involving hundreds of thousands of people, from coast to coast and around the world. Big Earth Day events are planned for cities including London, New York, Tokyo, Los



Earth Day 1990 on the Mall

Angeles, Seoul, Chicago, Beijing, Atlanta, Tel Aviv, Boston, Manila and San Diego. In all, half a billion people around the world will participate in Earth Day 2000. Find an event in your community and get involved!

Materials for EarthFair 2000 Exhibitors

Here's all the information you need to be an exhibitor for EarthFair 2000 on the Mall. Exhibitors must complete and return the following forms to Earth Day Network by March 15:

- [Application for EarthFair 2000 Exhibit Space](#)
- [Media Form for Exhibitors](#)
- [Passport Advertising for Exhibitors](#)
- [Clean Energy Agenda Endorsement Form](#)

Please also carefully read the following:

- [EarthFair 2000 Background](#)
- [EarthFair 2000 Guidelines](#)

If you need to contact us regarding EarthFair 2000:

Earth Day Network 2000
91 Marion St.
Seattle, WA 98104
USA

Fax: 1 (206) 682-1184
Email: earthday@earthday.net

POSSIBLE PRE-EARTH DAY EVENTS

3/20	POTUS India Trip – Clean Energy/Environment event
3/30	Meeting with Auto CEOs PNGV concept cars Auto tax credits Transportation Executive Order (federal fleet) Challenge to Automakers (?)
4/3-14	Lands Event (Baca? California Desert?) Climate Impact Assessments (Health, Water, Agriculture, Coastal) Meeting with Religious Leaders Schools/State & Local Climate Event
4/17	POTUS Lands event
Week of 4/17	Power plants (?)
4/22	Earth Day rally on Mall

February 4, 2000

MEMORANDUM TO GEORGE FRAMPTON AND ROGER BALLENTINE

FROM: PAUL BLEDSOE
Communications Director, Climate Change Task Force

EARTH DAY 2000 EVENTS AND CLIMATE CHANGE

I. Earth Day Events and Themes Already Planned

Global warming and clean energy will be the official themes for all Earth Day 2000 events, web pages, workshops, and other activities. This is the first time in the history of Earth Day that there will be a single-issue focus. Denis Hayes (organizer of the first Earth Day) and his full-time, paid staff of 45 are planning an extremely ambitious and well-funded agenda for the 30th Anniversary of Earth Day, including:

- Rallies on Earth Day in most major US cities, with the “flagship” event on the Mall in Washington with major performers and celebrities. Stage will be erected on West Front steps of US Capitol. Events to draw between 500,000 and one million people (TV Networks likely to do main live shots from Washington);
- Event coordinators in more than 80,000 US schools, using official Earth Day materials, themes, etc.;
- Distribution of 5-6 million pro-climate postcards to be sent to Members of Congress in the four weeks before Earth Day.
- Message coordination with cities and countries around the world;
- A “Clean Energy Now” campaign calling for four-fold increase in US power from renewables and the goal of 1/3 of US energy from renewables by 2020, four fold increase in R&D for clean energy, tighter limits on power plant pollution and SUV’s, average fuel economy of 45 by 2010 and 65 by 2020.

Almost all major environmental groups have adopted this theme (they in fact make up the Board of Directors for Earth Day 2000) and many have already begun to focus on climate change campaigns. In just one example, the National Environmental Trust conducted the largest single issue environmental advertising blitz in history last fall on global warming, spending \$8 million, and is planning an even larger ad campaign leading up to Earth Day specifically on climate change.

II. General Message and Event Proposal

The following proposals are designed to capitalize on this once-in-a-generation opportunity to shape public perception of Administration climate and energy policy. These suggested events are intended to demonstrate the crucial need for climate change mitigation and, most

importantly, to convince Americans of the *viability of action* – through the leadership of the President and Vice President – to reduce the risk of climate change impacts. Polling consistently shows that large majorities of Americans believe global warming is occurring—but also believe little can be done to prevent it. Our emphasis must be on solutions. The President has said repeatedly that climate change is our most important environmental challenge—most recently in the State of the Union. Earth Day represents the opportunity to carry the President’s and Vice President’s message forward.

III. Possible Event Deliverables and Venues—Feb.17 to April 22 (Earth Day):

A. Deliverables:

1. *Automobile Policy:*
 - a. *Federal Transportation Executive Order* – Set a goal to reduce federal petroleum consumption by 20% and improve federal fleet fuel economy and expand use alternative fuels.
 - b. *Highlight Tax Credits and Partnership for New Generation of Vehicles* – New generation of hybrid vehicles developed under PNGV getting 70-80 mpg will be hitting show rooms soon. Highlight federal-private partnership that helped create these cars, and tax credit (up to \$3,000) for purchase.
 - c. *Heavy Trucks* – Joint effort to increase the efficiency of heavy trucks with major truck manufacturers and engineers. Announcement of specific efficiency goals.
2. *Power Plants Policy Proposal* (awaiting details)
3. *DOE “5-Labs” study – analysis of potential for cost-effective clean energy solutions.* Provides economic underpinning for clean energy investments. Can be ready as early as mid-February.
4. *Regional/Sectoral Assessments* – Assessments of climate change impacts by region and economic sector conducted primarily by regional groups of scientists and partially funded by OSTP. Next regional assessments due: Mid-Atlantic (March), Great Lakes (March), Southwest (March). Next sectoral assessments due: Agriculture (March), Water Resources (March). Possible regional events with Cabinet.
5. *India Announcement*—President announces additional \$100 million in bilateral and regional assistance for clean energy development in India and regional energy cooperation in South Asia; creation of US-India business partnership for clean energy; EXIM financing of \$100 million for clean energy projects.
6. *DOE Energy Smart Schools* – President will issue Executive Order to better promote and achieve energy efficiency in 11,000 schools nationwide with a goal of 25% reduction in annual energy costs by 2010. Ready before Earth Day.

USAID Study . . .

B. Venues (Forums for Events):

1. *Meeting of President's Committee of Advisors on Science and Technology* – February 17-18th in Washington. Possible Presidential meeting or stop-by to discuss startling recent climate change scientific findings—i.e., global temperatures now rising at .35 degrees per decade. Invite leading climate scientists.
2. *Event at BP Solarex (or other Clean Energy Technology Export Plant)* -- timing TBD. The President and/or Vice President would deliver a major address on solutions to global warming—and the economic and employment benefits that can result. The likely venue is a solar manufacturing plant employing 400-600 people. The President would discuss recent scientific findings that indicate that worldwide temperatures are rising much faster than previously thought. His main theme will be solution-focused: We now have the technology to create economic growth without increasing fossil fuel emissions. The President and/or VP would unveil his FY 2001 budget proposal, "Clean Energy for the 21st Century." A key new element of the proposal is his International Clean Energy Initiative, a program to increase development of energy efficient and clean energy technologies to improve the environment and help America gain more of the \$20 trillion worldwide market that will exist for energy technologies over the next 50 years.
3. *India Trip by President* – March 20th
4. *Vice President's Meeting with Big 3 AutoExecutives* -- (Tentatively scheduled) March 30 at White House
5. *Meeting with Religious Leaders at White House* – Timing Anytime now until Earth Day. Meeting between President and/or Vice President and religious leaders concerned about climate change. Hundreds of religious congregations from across the country have adopted climate change as a key issues and lobbying business, government and opinion leaders. Many have already formal doctrines that state that environmental degradation is a sin against God. Likely statement of principles from leaders.
6. *Retrofit Homes for Energy Efficiency—Event with developers, contractors, retailers and manufacturers* -- Timing TBD -- Event would likely take place away from Washington. President and/or Vice President would help retrofit a home to make it more energy efficient, discuss increased PATH proposal, energy savings and environmental benefits—tie in tax credit for purchase of new energy efficient homes; (or another event which emphasizes both how average Americans can fight climate change and how Administration tax and other programs are designed to help them). Note: EPA and DOE are planning a Energy Star press event for Tuesday, March 28, in New York City at the 4 Times Square Building (a landmark NYC building) with Browner and Richardson. The purpose of the event is to recognize the first buildings that have received the Energy Star Label for Buildings.

7. *UK Trip by President?* British have expressed interest in a climate change event.
8. *White House Climate Change Roundtable—a few days before Earth Day—with Environmental, Business, Scientific and Religious Leaders with President and /or Vice President.* Science, Solutions and on-going efforts from all elements of American life.
9. *Presidential Radio Address on Earth Day*
10. *Earth Day Rally on the West Front steps of the US Capitol -- The Major US Earth Day Event.* Crowds of between 500,00 and 1 million. Live network television coverage. Opportunity for Remarks, Announcements by President and/or VP.

IV. Supporting Activities

These Presidential and Vice Presidential events should be supported by an aggressive series of other actions including:

Cabinet Events

Placement of Op-Eds by Validators

Outreach to friends in the scientific, environmental, religious and business communities

Outreach to State and Local groups and officials

Outreach to Editorial Boards

cc: Elliot Diringer, Beth Viola, Jeff Seabright

February 4, 2000

MEMORANDUM TO GEORGE FRAMPTON AND ROGER BALLENTINE

FROM: PAUL BLEDSOE
Communications Director, Climate Change Task Force

EARTH DAY 2000 EVENTS AND CLIMATE CHANGE

I. Earth Day Events and Themes Already Planned

Global warming and clean energy will be the official themes for all Earth Day 2000 events, web pages, workshops, and other activities. This is the first time in the history of Earth Day that there will be a single-issue focus. Denis Hayes (organizer of the first Earth Day) and his full-time, paid staff of 45 are planning an extremely ambitious and well-funded agenda for the 30th Anniversary of Earth Day, including:

- Rallies on Earth Day in most major US cities, with the “flagship” event on the Mall in Washington with major performers and celebrities. Stage will be erected on West Front steps of US Capitol. Events to draw between 500,000 and one million people (TV Networks likely to do main live shots from Washington);
- Event coordinators in more than 80,000 US schools, using official Earth Day materials, themes, etc.;
- Distribution of 5-6 million pro-climate postcards to be sent to Members of Congress in the four weeks before Earth Day.
- Message coordination with cities and countries around the world;
- A “Clean Energy Now” campaign calling for four-fold increase in US power from renewables and the goal of 1/3 of US energy from renewables by 2020, four fold increase in R&D for clean energy, tighter limits on power plant pollution and SUV’s, average fuel economy of 45 by 2010 and 65 by 2020.

Almost all major environmental groups have adopted this theme (they in fact make up the Board of Directors for Earth Day 2000) and many have already begun to focus on climate change campaigns. In just one example, the National Environmental Trust conducted the largest single issue environmental advertising blitz in history last fall on global warming, spending \$8 million, and is planning an even larger ad campaign leading up to Earth Day specifically on climate change.

II. General Message and Event Proposal

The following proposals are designed to capitalize on this once-in-a-generation opportunity to shape public perception of Administration climate and energy policy. These suggested events are intended to demonstrate the crucial need for climate change mitigation and, most

importantly, to convince Americans of the *viability of action* – through the leadership of the President and Vice President – to reduce the risk of climate change impacts. Polling consistently shows that large majorities of Americans believe global warming is occurring—but also believe little can be done to prevent it. Our emphasis must be on solutions. The President has said repeatedly that climate change is our most important environmental challenge—most recently in the State of the Union. Earth Day represents the opportunity to carry the President’s and Vice President’s message forward.

III. Possible Event Deliverables and Venues—Feb.17 to April 22 (Earth Day):

A. Deliverables:

1. *Automobile Policy:*
 - a. *Federal Transportation Executive Order* – Set a goal to reduce federal petroleum consumption by 20% and improve federal fleet fuel economy and expand use alternative fuels.
 - b. *Highlight Tax Credits and Partnership for New Generation of Vehicles* – New generation of hybrid vehicles developed under PNGV getting 70-80 mpg will be hitting show rooms soon. Highlight federal-private partnership that helped create these cars, and tax credit (up to \$3,000) for purchase.
 - c. *Heavy Trucks* – Joint effort to increase the efficiency of heavy trucks with major truck manufacturers and engineers. Announcement of specific efficiency goals.
2. *Power Plants Policy Proposal* (awaiting details)
3. *DOE “5-Labs” study – analysis of potential for cost-effective clean energy solutions.* Provides economic underpinning for clean energy investments. Can be ready as early as mid-February.
4. *Regional/Sectoral Assessments* – Assessments of climate change impacts by region and economic sector conducted primarily by regional groups of scientists and partially funded by OSTP. Next regional assessments due: Mid-Atlantic (March), Great Lakes (March), Southwest (March). Next sectoral assessments due: Agriculture (March), Water Resources (March). Possible regional events with Cabinet.
5. *India Announcement*—President announces additional \$100 million in bilateral and regional assistance for clean energy development in India and regional energy cooperation in South Asia; creation of US-India business partnership for clean energy; EXIM financing of \$100 million for clean energy projects.
6. *DOE Energy Smart Schools* – President will issue Executive Order to better promote and achieve energy efficiency in 11,000 schools nationwide with a goal of 25% reduction in annual energy costs by 2010. Ready before Earth Day.

B. Venues (Forums for Events):

1. *Meeting of President's Committee of Advisors on Science and Technology* – February 17-18th in Washington. Possible Presidential meeting or stop-by to discuss startling recent climate change scientific findings—i.e., global temperatures now rising at .35 degrees per decade. Invite leading climate scientists.
2. *Event at BP Solarex (or other Clean Energy Technology Export Plant)* -- timing TBD. The President and/or Vice President would deliver a major address on solutions to global warming—and the economic and employment benefits that can result. The likely venue is a solar manufacturing plant employing 400-600 people. The President would discuss recent scientific findings that indicate that worldwide temperatures are rising much faster than previously thought. His main theme will be solution-focused: We now have the technology to create economic growth without increasing fossil fuel emissions. The President and/or VP would unveil his FY 2001 budget proposal, "Clean Energy for the 21st Century." A key new element of the proposal is his International Clean Energy Initiative, a program to increase development of energy efficient and clean energy technologies to improve the environment and help America gain more of the \$20 trillion worldwide market that will exist for energy technologies over the next 50 years.
3. *India Trip by President* – March 20th
4. *Vice President's Meeting with Big 3 AutoExecutives* -- (Tentatively scheduled) March 30 at White House
5. *Meeting with Religious Leaders at White House* – Timing Anytime now until Earth Day. Meeting between President and/or Vice President and religious leaders concerned about climate change. Hundreds of religious congregations from across the country have adopted climate change as a key issues and lobbying business, government and opinion leaders. Many have already formal doctrines that state that environmental degradation is a sin against God. Likely statement of principles from leaders.
6. *Retrofit Homes for Energy Efficiency—Event with developers, contractors, retailers and manufacturers* -- Timing TBD -- Event would likely take place away from Washington. President and/or Vice President would help retrofit a home to make it more energy efficient, discuss increased PATH proposal, energy savings and environmental benefits—tie in tax credit for purchase of new energy efficient homes; (or another event which emphasizes both how average Americans can fight climate change and how Administration tax and other programs are designed to help them). Note: EPA and DOE are planning a Energy Star press event for Tuesday, March 28, in New York City at the 4 Times Square Building (a landmark NYC building) with Browner and Richardson. The purpose of the event is to recognize the first buildings that have received the Energy Star Label for Buildings.

7. *UK Trip by President?* British have expressed interest in a climate change event.
8. *White House Climate Change Roundtable—a few days before Earth Day—with Environmental, Business, Scientific and Religious Leaders with President and /or Vice President.* Science, Solutions and on-going efforts from all elements of American life.
9. *Presidential Radio Address on Earth Day*
10. *Earth Day Rally on the West Front steps of the US Capitol -- The Major US Earth Day Event.* Crowds of between 500,00 and 1 million. Live network television coverage. Opportunity for Remarks, Announcements by President and/or VP.

IV. Supporting Activities

These Presidential and Vice Presidential events should be supported by an aggressive series of other actions including:

Cabinet Events

Placement of Op-Eds by Validators

Outreach to friends in the scientific, environmental, religious and business communities

Outreach to State and Local groups and officials

Outreach to Editorial Boards

cc: Elliot Diringer, Beth Viola, Jeff Seabright



EXECUTIVE OFFICE OF THE PRESIDENT
COUNCIL ON ENVIRONMENTAL QUALITY
WASHINGTON, D.C. 20503

December 9, 1999

MEMORANDUM

TO: JOHN PODESTA
LORETTA UCELLI

CC: CHARLES BURSON
LAURA QUINN
THURGOOD MARSHALL, JR.
ROGER BALLENTINE

FROM: GEORGE T. FRAMPTON, JR. *GTF*

SUBJECT: EARTH DAY 2000

Earth Day 2000 will be the 30th anniversary of Earth Day – as well as the first Earth Day of the new century and the last of this Administration. It represents a major opportunity to highlight Clinton-Gore environmental accomplishments and to launch significant new initiatives. Although April 22 is still four months away, the environmental community is well along in its planning, and it is important for us to decide soon how the Administration will position itself for this high-profile event.

Earth Day 2000 Themes/Events

The theme chosen by the environmental community for Earth Day 2000 is "Clean Energy Now". A principal objective is highlighting global warming and demonstrating that solutions are within reach. The organizing committee (chaired by Denis Hayes, organizer of the original Earth Day) plans rallies in most major U.S. cities and a flagship event on the Mall hosted by Leonardo DiCaprio that organizers say could draw 1 million people. Earth Day materials will be distributed to schools across the country and efforts are being made to coordinate message with Earth Day celebrations in other countries.

The stated policy objectives of the Clean Energy Now campaign are: a four-fold increase in federal research and development of clean energy technologies; a goal of one-third of U.S. power from renewable energy sources by 2020; tighter emissions controls on older coal-burning power plants; and increasing auto fuel economy to an average of 45 mpg by 2010 and 65 mpg by 2020.

Options for White House Themes/Events

Climate events – A series of events by the President and/or Vice President in March and early April to present new scientific findings on climate change (major new assessments of potential impacts are due by March) and new Administration initiatives to address it. Specifics of these initiatives and their timing will depend on the budget and SOTU processes, but possibilities include: a POTUS meeting with auto makers to achieve voluntary agreement on fuel economy improvements; proposed regulation to reduce emissions from coal-fired plants; new measures to promote clean energy development in developing countries; and new assistance for states, schools, and local governments to save energy and money and reduce emissions.

Lands Legacy tour – A series of events by the President and/or Vice President in the week leading up to Earth Day highlighting accomplishments and announcing new steps to protect lands. Similar trips could continue into the early summer.

Earth Day on the Mall – A senior Administration official (possibly the Vice President) should address the Earth Day rally on the Mall and, if possible, announce a new climate initiative.

We would like to see about scheduling a meeting soon to discuss these options and recommendations.

DRAFT---NOT FOR OUTSIDE DISTRIBUTION

November 9, 1999

To: Roger Ballentine
Fr: Paul Bledsoe
Re: Earth Day 2000 and Climate Change

I. Earth Day Events and Themes Already Planned

Global warming and clean energy will be the official themes for all Earth Day 2000 events, web pages, workshops, and other activities. Denis Hayes (organizer of the first Earth Day) and his full-time, paid staff of 25 are planning an extremely ambitious and well-funded agenda for the 30th Anniversary of Earth Day, including:

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Most, if not all, of the major environmental groups have bought into this concept and, of course, many have already begun focus on climate change, in major advertising campaigns and other activities.

II. General Message and Event Proposal

This extraordinary marshalling of resources and people around the global warming theme for Earth Day 2000 means that the nation’s attention will be focused on climate change in a more profound way than ever before.

The following proposals are designed to capitalize on this once-in-a-generation opportunity to shape public perception of Administration climate and energy policy. Even more, these suggested events (and the supporting policies) intend to help demonstrate the crucial need for climate change action and, perhaps most importantly, to convince Americans that there are affirmative actions we can take which can reduce the risk of climate change impacts. (This approach mirrors polling findings that consistently show that while more than two-thirds of

Americans believe global warming is happening and is dangerous, fewer than half believe effective solutions can be found address it.)

We strongly believe that one or two climate events will not accomplish these objectives. The skepticism runs too deep—on all sides, naysayers and doomsdayers.

Only a sustained and coordinated series of events—from The State of the Union in January to an Earth Day announcement in April---can adequately represent the Administration's seriousness on the issue; build sufficient credibility with the public, media, and environmentalists; effectively mobilize constituent groups; and capture the attention of industry and Congress.

Only a sustained message can penetrate public skepticism and media cynicism—but a sustained message does not just mean the President talking about it for a minute or two once a week. It means a series of focused and coordinated events.

If, as the President says, climate change is our most important environmental challenge—we have to act like it.

III. Specific Proposed POTUS and/or VP Events:

- *Late January—State of The Union:* This series of events and announcements for 2000 could begin with the President making a bold State of the Union declaration: “Preserving and restoring our environment will be one of the two or three most important issues of this new century—and global warming will be the most important environmental challenge of all. Between now and Earth Day 2000, just three months away, we will announce a series of new initiatives, building on our current efforts, to help reduce the likelihood that our children will live in a world of great drought, storms, disease, coastal flooding and other disasters already associated with the warming of our planet.” President announces series of budget initiatives—Heavy-Duty Trucks, Global Clean Energy, Bioenergy, others.
- *Early March: Meeting with Industry Leaders* – Outside of Washington at plant or corporation that has made climate change commitment. Emphasize new markets in renewables and efficiency—corporate involvement compellingly demonstrates that actions can benefit both economy and environment.
- *Mid – March: Meeting with Religious Leaders* -- Meeting between President and religious leaders concerned about climate change to discuss their views and willingness to make commitments to reduce climate change. Religious groups have probably done more and better outreach on climate than any other constituency—perhaps including environmentalists.
- *Late March: Retrofit Homes for Energy Efficiency and/or Events with developers, contractors, Home Depot;* President and others to discuss increased PATH proposal and retrofit an older house to improve energy savings—Tie in with tax credit package; other initiatives (or another event which emphasizes both how average Americans can fight climate change and how Administration tax and other programs are designed to help them).

- *Early April: Release National Assessment on Climate Change* (this will be a synthesis of regional reports—some of which will be released earlier) President can release this—or OSTP or others can—depending on details. Regional events with Cabinet.
- *Early April: Presidential Address: The environment and climate: 30 years ago—30 years from now. The Big Idea Speech.* Naysayers have always been wrong—they said our environmental laws—Clean Air Act, Clean Water Act, ESA, NEPA—would only hurt the economy, not help the environment. In fact, the last 30 years have conclusively shown that we can restore our environment and grow our economy. So too the link between global warming pollution and economic growth will disappear in the next number of years if we are smart enough to invest wisely. (Announce new details or additions to technology/export initiative first discussed in the State of the Union—separate event?)
- *A few days before Earth Day: President and Vice President. White House roundtable meeting of business, science, religious, environmental leaders with President to discuss progress on Climate Change*
- *On Earth Day: Vice President Proposes Major New Initiative --* This will be a major proposal. Emphasis on Public Health, energy efficiency and savings and greenhouse gas reduction—in that order. It will investment of billions in short term but will through efficiency improvements pay for self over time.

IV. Supporting Activities

These Presidential and Vice Presidential events should be supported by an aggressive series of other actions including:

Cabinet Events

Placement of Op-Eds by Validators

Outreach to friends in the scientific, environmental, religious and business communities

Outreach to State and Local groups and officials

Outreach to Editorial Boards

The media will be even more reluctant to credit the Administration with any accomplishments next year than in the past. That is why that we must demonstrate our conviction by sustaining the message over a number of events and months and taking advantage of the built-in news hook of Earth Day.

To: George Frampton, Roger Ballentine, Jeff Seabright
Fr: Paul Bledsoe
Re: Possible Scenarios for 2000 – State of the Union to Earth Day

The purpose of this memo is to provide mix and match possibilities for events and initiatives from State of the Union through Earth Day 2000.

Specifically, it should allow us to agree soon on the initiatives, announcements and events which we believe can take place in the January- March time frame regardless of which final "scenario" occurs closer to Earth Day.

CURRENT LIST OF POSSIBLE POLICY INITIATIVES

1. Clean Energy for the 21st Century
2. Transportation Executive Order
3. Power Plant Administrative Announcement/Legislation
4. Energy Efficient Schools Initiatives
5. Heavy Duty Trucks
6. National Assessment
7. Early Credit

CURRENT LIST OF POSSIBLE EVENTS *PRIOR* TO EARTH DAY

1. State of the Union
2. Meeting with Religious Leaders—Early March
3. Event with Industry (Automotive?) Leaders—Mid March
4. Release of National Assessment on Climate Change—Early April
5. Major Speech—30 years ago; 30 years from now; Big Idea Speech—Early April
6. WH Roundtable with business, science, environmental, religious leaders

I. SCENARIO ONE

- A. President Announces Climate Initiatives in State of the Union :
- B. President Conducts Climate Events in Jan- Earth Day
- C. President Makes Monument Designation Two Days Before Earth Day
- D. VP Gives Major Earth Day Speech on Mall; Makes Clean Air/Climate Announcement (power plant?)
- E. VP Makes a Series of Announcements After Earth Day.

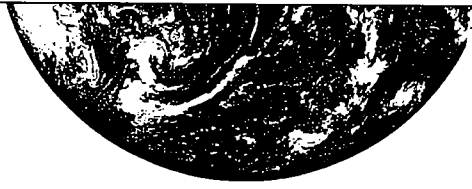
II. SCENARIO TWO

- A. President Announces Climate Initiatives in SOTU
- B. President Conducts Climate Events Well Before Earth Day
- C. VP Makes Major Climate Announcement a day or Two Before Earth Day
- D. President and VP do Monument announcement together on Earth Day

III. SCENARIO THREE

- A. President Announces Climate Initiatives in SOTU
- B. President and VP Conduct Climate Events Before Earth Day
- C. President and VP make Monument announcement day or two before Earth Day
- D. President and/or VP make Earth Day Clean Air/Climate Announcement Speech on Mall.

www.earthday.net



April 22, 2000



endorse it:

(Show your support for the Clean Energy Now! campaign.)

Along with the attention you devote to your favorite environmental causes for Earth Day 2000, we ask that you help us focus attention on the issue of energy. Because the earthly things you most want to save will surely be lost unless we act now to curtail global warming and the other perilous side effects of our unbalanced energy diet.

Please lend your support by endorsing the Earth Day 2000 Clean Energy Agenda. You may do so either as an individual or on behalf of a group. The Clean Energy Agenda will be presented to government and corporate leaders as a mandate for America to apply its techno-savvy to developing power that befits the 21st century.

A rapid transition to energy efficiency and renewable energy sources will combat global warming, protect human health, create new jobs, and ensure a secure, affordable energy future. In contrast, our current reliance on coal, oil, and nuclear power imperils the world's climate, fouls the environment, harms human health, and results in the proliferation of nuclear materials.

The choice is clear: We must opt to meet our energy needs without threatening our children's future. The Earth Day 2000 Clean Energy Agenda outlines common-sense ways to mobilize American ingenuity and resources for a rapid transition to renewable energy sources. Adopting it will eliminate waste, phase out fossil fuels and nuclear power, and help the United States lead the world into a sustainable energy future.

CLEAN POWER: In the next decade, increase four-fold the amount of energy obtained from non-hydro renewable sources such as the sun and wind. By 2020, produce at least one-third of the nation's energy from renewable sources, and double the efficiency of energy use in homes, buildings, transportation, and industry.

CLEAN AIR: Clean up our power plants by setting progressively tighter limits on all power plant pollution — including carbon dioxide, the major cause of global warming. Close the loophole that allows old coal-fired power plants to pollute much more than newer plants.

CLEAN CARS: Hold sport utility vehicles, pick-up trucks and mini-vans to the same air pollution standards as cars. Improve the fuel efficiency of new cars and light trucks to a combined average of 45 MPG by 2010 and at least 65 MPG by 2020. Offer incentives that build strong markets for renewable fuels and for clean vehicles powered by hybrid motors and fuel cells.

CLEAN INVESTMENTS: Quadruple federal investments in renewable energy and energy efficiency within five years, and continue this momentum over the long term. Stop spending taxpayer dollars to subsidize the coal, oil, and nuclear industries. Provide adequate resources and job training for affected workers and communities to ensure a just transition to a sustainable energy economy.

Sign up your support for the Clean Energy Agenda on the reverse side. You can also endorse the campaign at: www.earthday.net/signup/endorse.asp

Possible Scenarios for 2000 – State of the Union to Earth Day

I. SCENARIO ONE

A. President Announces Climate Initiatives in State of the Union (Possible)

1. Global Clean Energy
2. Transportation Executive Order
3. Power Plant Administrative Announcement/legislation
4. Speech on Climate Change

B. President Conducts Climate Events in Period Before Earth Day (Possible):

1. Meeting with Religious Leaders—Early March
2. Event with Industry (Automotive?) Leaders—Mid March
3. Release of National Assessment on Climate Change—Early April
4. Major Speech—30 years ago; 30 years from now; Big Idea Speech—Early April C.

C. President Makes Monument Designation Two Days Before Earth Day

D. VP Gives Major Earth Day Speech on Mall; Makes Clean Air/Climate Announcement (power plant?)

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A. President Announces Climate Initiatives in SOTU

B. President Conducts Climate Events Well Before Earth Day

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D. President and VP do Monument announcement together on Earth Day

III. SCENARIO THREE

A. President Announces Climate Initiatives in SOTU

B. President and VP Conduct

PAUL- FYI - remember This is just a proposal - it hasn't gone any -
 where but here - let me know what you think -
 Jackie

Earth Day 2000: Green City Award

At Earth Day 2000, EPA's Climate Outreach and Innovations Division would announce the launch of a nationwide awards program, called something like the Green City Award, to recognize communities that reduce their greenhouse gases from city fleets, municipal landfills, and city facilities. Based on the results of a "Global Warming Scorecard," the city that wins the top award each year would receive recognition that would include a bronze Presidential plaque and a grove of trees—10 trees planted at an appropriate municipal site. The plaque would read something like:

"President XX and the U.S. Environmental Protection Agency planted this grove of XX trees in recognition of X city's selection as the Green City of 20XX because of its outstanding efforts to slow global warming by reducing energy use in municipal facilities, fleets, and landfills."

The award would:

1. Provide a highly visible venue for EPA's climate change outreach effort. Each year's award (starting with the first one in 2001) would put the winning city in the national spotlight, especially if the President attended the dedication of the grove. Tree planting is always a good photo op—Bush held a press conference when he shoveled the first dirt for a tree planted on the south lawn of the White House.
2. Provide a strong motivator for municipal action because of the national publicity for the winning city and the tangible and lasting nature of the award (just as The Nature Conservancy has been so successful because of the tangible, lasting nature of its land preservation work).
3. Provide more bang for less buck than grants. The winning city could receive the bronze plaque and a grove of 10 fairly well-established trees (to help ensure their survival in the harsh urban environment) costing \$5-10K to purchase and plant. American Forests could be enlisted as a partner to provide expert advice on the choice of species and best practices for planting and maintenance. The national publicity generated would encourage other cities to emulate the winning city's success in order to try for the following year's award. The media coverage would provide a venue for informing the public about climate change and the need for energy efficiency, and the award itself would be particularly fitting in that the grove would sequester carbon.

OPTIONAL FORM 98 (7-90)

FAX TRANSMITTAL

To <u>Jackie Krieger</u>		From <u>K. H. [unclear]</u>	# of pages <u>1</u>
Dept./Agency <u></u>		Phone # <u></u>	
Fax # <u>301-231</u>		Fax # <u>200</u>	
NPN 7540-01-317-7388		5010-101	GENERAL SERVICES ADMINISTRATION

London, NY, LA CHC

Boston

$\frac{1}{2}$ letter prop 982-5647

www.earthday.net

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This extraordinary marshalling of resources and people around the global warming theme for Earth Day 2000 means that the nation's attention will be focused on climate change in a more profound way than ever before.

The following proposals are designed to capitalize on this once-in-a-generation opportunity to shape public perception of Administration climate and energy policy. Even more, these suggested events (and the supporting policies) intend to help demonstrate the crucial need for climate change action and, perhaps most importantly, to convince Americans that there are affirmative actions we can take which can reduce the risk of climate change impacts. (This approach mirrors polling findings that consistently show that while more than two-thirds of

Americans believe global warming is happening and is dangerous, fewer than half believe effective solutions can be found address it.)

We strongly believe that one or two climate events will not accomplish these objectives. The skepticism runs too deep—on all sides, naysayers and doomsdayers.

Only a sustained and coordinated series of events—from The State of the Union in January to an Earth Day announcement in April---can adequately represent the Administration's seriousness on the issue; build sufficient credibility with the public, media, and environmentalists; effectively mobilize constituent groups; and capture the attention of industry and Congress.

Only a sustained message can penetrate public skepticism and media cynicism—but a sustained message does not just mean the President talking about it for a minute or two once a week. It means a series of focused and coordinated events.

If, as the President says, climate change is our most important environmental challenge—we have to act like it.

III. Specific Proposed POTUS and/or VP Events:

- *Late January—State of The Union:* This series of events and announcements for 2000 could begin with the President making a bold State of the Union declaration: “Preserving and restoring our environment will be one of the two or three most important issues of this new century—and global warming will be the most important environmental challenge of all. Between now and Earth Day 2000, just three months away, we will announce a series of new initiatives, building on our current efforts, to help reduce the likelihood that our children will live in a world of great drought, storms, disease, coastal flooding and other disasters already associated with the warming of our planet.” President announces series of budget initiatives—Heavy-Duty Trucks, Global Clean Energy, Bioenergy, others.
- *Early March: Meeting with Industry Leaders* – Outside of Washington at plant or corporation that has made climate change commitment. Emphasize new markets in renewables and efficiency—corporate involvement compellingly demonstrates that actions can benefit both economy and environment.
- *Mid – March: Meeting with Religious Leaders* -- Meeting between President and religious leaders concerned about climate change to discuss their views and willingness to make commitments to reduce climate change. Religious groups have probably done more and better outreach on climate than any other constituency—perhaps including environmentalists.
- *Late March: Retrofit Homes for Energy Efficiency and/or Events with developers, contractors, Home Depot:* President and others to discuss increased PATH proposal and retrofit an older house to improve energy savings—Tie in with tax credit package; other initiatives (or another event which emphasizes both how average Americans can fight climate change and how Administration tax and other programs are designed to help them).

- *Early April: Release National Assessment on Climate Change* (this will be a synthesis of regional reports—some of which will be released earlier) President can release this—or OSTP or others can—depending on details. Regional events with Cabinet.
- *Early April: Presidential Address: The environment and climate: 30 years ago—30 years from now. The Big Idea Speech.* Naysayers have always been wrong—they said our environmental laws—Clean Air Act, Clean Water Act, ESA, NEPA—would only hurt the economy, not help the environment. In fact, the last 30 years have conclusively shown that we can restore our environment and grow our economy. So too the link between global warming pollution and economic growth will disappear in the next number of years if we are smart enough to invest wisely. (Announce new details or additions to technology/export initiative first discussed in the State of the Union—separate event?)
- *A few days before Earth Day: President and Vice President. White House roundtable meeting of business, science, religious, environmental leaders with President to discuss progress on Climate Change*
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IV. Supporting Activities

These Presidential and Vice Presidential events should be supported by an aggressive series of other actions including:

Cabinet Events

Placement of Op-Eds by Validators

Outreach to friends in the scientific, environmental, religious and business communities

Outreach to State and Local groups and officials

Outreach to Editorial Boards

The media will be even more reluctant to credit the Administration with any accomplishments next year than in the past. That is why that we must demonstrate our conviction by sustaining the message over a number of events and months and taking advantage of the built-in news hook of Earth Day.

DRAFT---NOT FOR OUTSIDE DISTRIBUTION

November 9, 1999

To: Roger Ballentine

Fr: Paul Bledsoe

Re: Earth Day 2000 and Climate Change

I. Earth Day 2000 and Climate Change

Global warming and clean energy will be the official themes for all Earth Day 2000 events, web pages, workshops, and other activities. Denis Hayes (organizer of the first Earth Day) and his full-time, paid staff of 25 are planning an extremely ambitious and well-funded agenda for the 30th Anniversary of Earth Day, including:

- Rallies on Earth Day in most major US cities, with the "flagship" event on the Mall in Washington with performers and celebrities, which they believe will draw more than one million people (CNN's Exec. Producer for Environment has said they will be doing their main live shots from Washington);
- Event Coordinators in more than 80,000 US schools, using official Earth Day materials, themes, etc.;
- Message coordination with cities and countries around the world;
- A "Clean Energy Now" campaign calling for four-fold increase in US power from renewables and the goal of 1/3 of US energy from renewables by 2020, four fold increase in R&D for clean energy, tighter limits on power plant pollution and SUV's, average fuel economy of 45 by 2010 and 65 by 2020.

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Energy Efficiency and Renewable Energy Network (EREN) U.S. Department of Energy

Clean ENERGY

— for the —
21st Century

- ❖ What is Clean Energy?
- ❖ Clean Energy Publications
- ❖ Clean Energy News
- ❖ Calendar of Events
- ❖ Related Links

Welcome to the *Clean Energy for the 21st Century* Web site. The Department of Energy — and its Office of Energy Efficiency and Renewable Energy — is leading efforts to research, develop and deploy clean, efficient, and renewable energy technologies to help meet America's energy needs while protecting the environment and strengthening the economy. On this site you'll find information on clean energy technologies and Energy Awareness Month activities; you'll be able to download or request copies of Clean Energy publications; you'll find information about Clean Energy supporting events and activities; and you'll find links to other "clean energy" related sites.

Last updated January 4, 2000 || [Contact Us](#) || [EREN](#)

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to have
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info

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This is not a presidential record. This is used as an administrative marker by the William J. Clinton Presidential Library Staff.

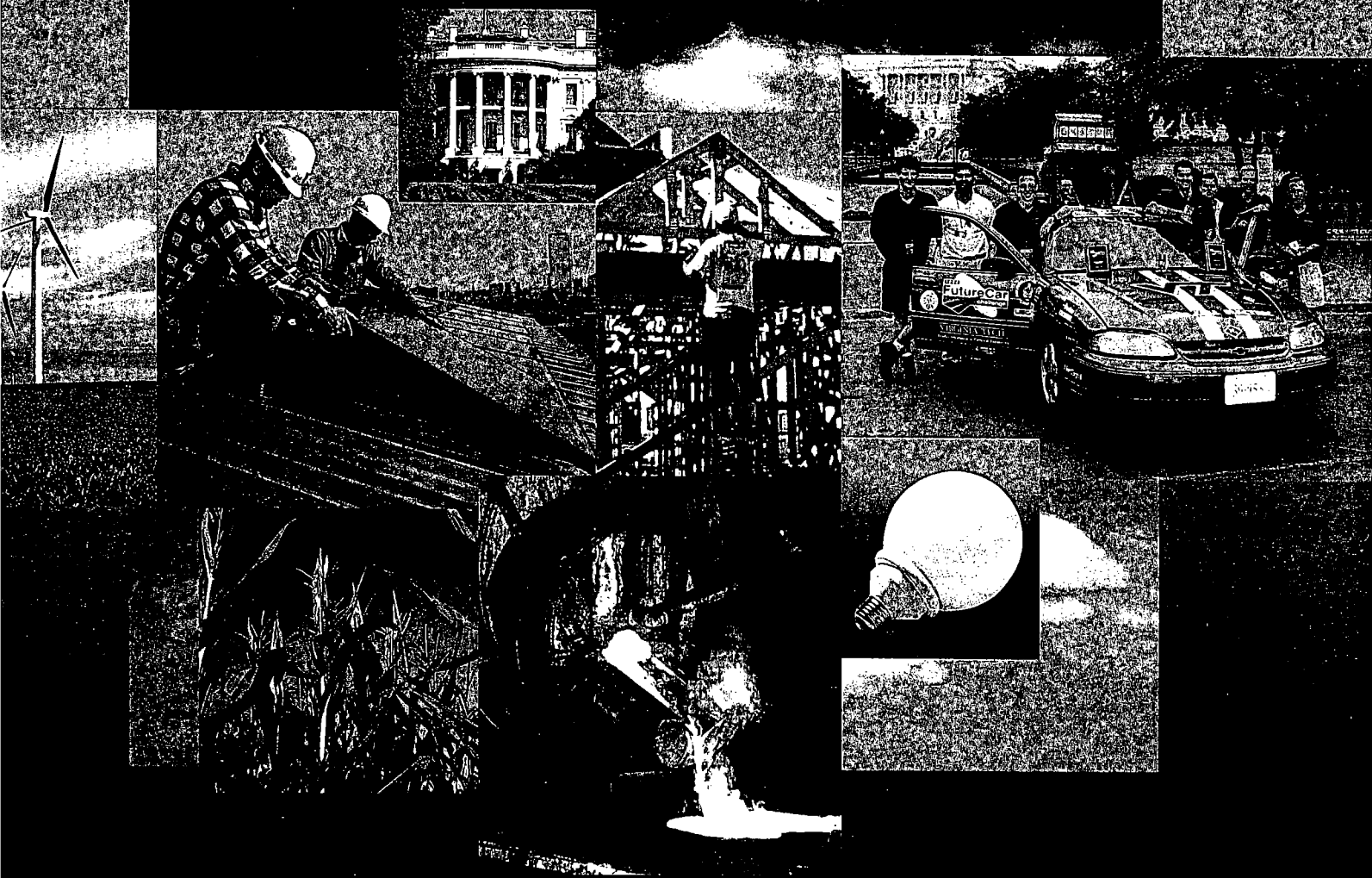
This marker identifies the place of a publication.

Publications have not been scanned in their entirety for the purpose of digitization. To see the full publication please search online or visit the Clinton Presidential Library's Research Room.

Clean ENERGY

— for the —

21st Century



U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY





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Buildings

FOR THE 21ST CENTURY



As a nation, we pride ourselves on our high standard of living. Nowhere is that standard more evident than in the buildings that serve as our homes, schools and businesses. Walk into one of the new Village Green Homes in Sylmar, California, or the impressive 4 Times Square office building in midtown Manhattan, and you'll see and feel how the U.S. Department of Energy (DOE) and its Office of Building Technology, State and Community Programs (BTS) are working to improve our quality of life while helping to sustain a healthy environment.

Residential and commercial buildings cost us \$240 billion a year to operate, account for more than one-third of the nation's total energy use, and consume about two-thirds of the nation's electricity. Within DOE's Office of Energy Efficiency and Renewable Energy (EERE), BTS supports public- and private-sector partnerships with the building industry to improve energy efficiency and increase the use of renewable energy. Energy efficient and renewable energy technologies can save home and business owners money and create more comfortable and productive buildings.

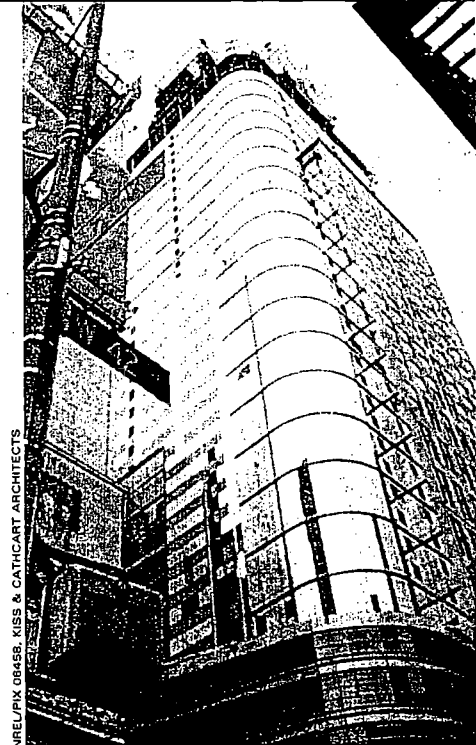
BTS sponsors basic and applied research on whole or "integrated" building systems. The integrated approach takes every aspect of the building into account, from the materials used in construction to weather and siting considerations; from heating and cooling systems to lighting, appliances, and equipment; from financing and insuring to reuse and recycling. By considering all aspects of the building structure, the indoor environment, and how they interact in determining energy performance, BTS strives to develop technologies and strategies that will help the U.S. building industry and building owners save energy in our nation's buildings.

Mapping Research for the New Millennium

Three BTS teams—residential, commercial, and building equipment—work with industry to develop the strategic course that will carry BTS research and technical assistance into the 21st century. BTS has already begun implementing plans with the commercial whole buildings, lighting, and windows industries. The goal is to have technology development plans for all sectors of the building industry, which will help BTS to better align its research, development, and deployment (RD&D) agenda with the industry's specific needs.

This planning expands on past successes of several BTS programs:

- **Building America** is a private/public partnership that provides energy solutions for large home builders in production housing. Program partners build homes on a community scale that use 30% to 50% less energy and reduce construction time and waste by as much as 50% with little or no added cost. Building America forms teams of home builders, architects, engineers, equipment manufacturers, material suppliers, community planners, mortgage lenders, and building trades. These teams bring together many different companies to work on projects in subdivisions around the country.



NREL/PIX 08455, KISS & CATHCART ARCHITECTS

4 Times Square, a 48-story skyscraper in New York City, is a showcase of renewable technologies and energy efficient construction. The building incorporates daylighting, fuel cell and photovoltaic energy generation, and a chlorofluorocarbon-free heating, ventilation, and air conditioning system.

Benefits for 21st Century Buildings

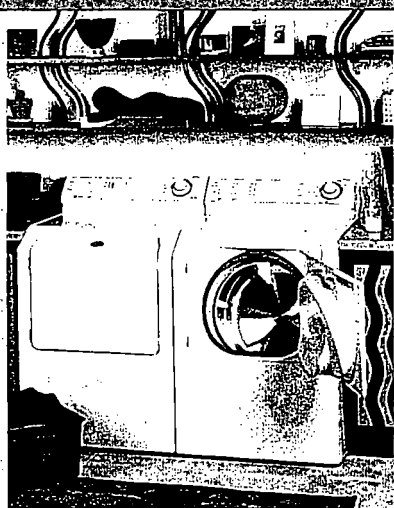
BTS research and programs benefit the building construction, equipment, and appliance industries and the nation's citizens. Some of those benefits include:

- Reducing construction costs and waste by as much as 50%
- Reducing energy use and lowering utility bills
- Creating new product opportunities for manufacturers and suppliers
- Practicing energy-efficient manufacturing and construction techniques
- Creating jobs in the building industry
- Improving building performance and comfort
- Leveraging federal, local, and private funds
- Protecting the environment.



These energy-efficient homes built in Sylmar, California, were constructed as part of DOE's Building America program. The 186 homes include efficient HVAC systems, high performance glazing, advanced framing, and walls with R-19 insulation.

THE OFFICE OF BUILDING TECHNOLOGY, STATE AND COMMUNITY PROGRAMS



ENERGY STAR® appliances such as this washer and dryer save energy and cut residential electric bills by reducing the amount of water required to wash clothes, and the amount of time needed to dry them.

"This is a different way to save money for all.

As Henderson grows, so will the need for more power. If we can reduce local energy costs by just 1%, we will have redirected \$8,000,000 back into the local economy."

HENDERSON CITY COUNCILWOMAN
AMANDA CYPHERS COMMENTING
ON THE REBUILD HENDERSON,
NEVADA PROJECT,
JUNE 1998

Contacts

Office of Building Technology,
State and Community Programs
www.eren.doe.gov/buildings



Produced for the U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy
by the National Renewable Energy Laboratory
a DOE national laboratory

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December 1999

■ **Rebuild America** is a network of community partnerships that saves money by improving the energy efficiency of commercial, school, and multifamily residential buildings. The program supports the partners with business and technical tools and customized assistance, as well as by linking partners to shared resources. Throughout the nation, Rebuild America has hundreds of partnerships at work—in almost every state, the U.S. territories, and within several Native American communities—that have already saved more than \$100 million.

■ The **Weatherization Assistance Program** is the nation's primary program for delivering energy efficiency services to low-income Americans. The weatherization upgrades reduce heating and cooling costs for low-income families—particularly those with elderly members, persons with disabilities, and children. The program has weatherized the homes of more than 4.7 million families since its inception in 1976.

■ The **State Energy Program (SEP)** provides funding to state and territory energy offices to design and carry out energy efficiency and renewable energy projects tailored to locally specific needs and opportunities, while helping to address national energy priorities. Since the program's inception in 1976, more than 8,000 projects have been completed nationwide with state energy offices, and approximately 70,000 energy efficiency retrofits have been completed for school and hospital buildings.

BTS Partnerships Pay Off

Through BTS, DOE is working with the U.S. Environmental Protection Agency to promote the use of energy efficient equipment. They award the ENERGY STAR® label for appliances and electronic equipment that significantly exceed the minimum national efficiency standards. The label helps consumers easily identify these efficient products. Businesses and organizations participating in the ENERGY STAR® program are continually setting examples of environmental leadership by manufacturing, selling, and using efficient appliances. The typical U.S. household spends about \$1,300 on home energy bills. ENERGY STAR® appliances and heating and cooling equipment can reduce those bills by up to 40%.

DOE is also working with industry and government through the Partnership for Advancing Technology in Housing (PATH) initiative, a multi-agency effort launched by President Bill Clinton in 1998. PATH links key agencies in the federal government with leaders from the home building, product manufacturing, insurance, financial, and regulatory communities in a unique partnership to radically improve the quality, durability, environmental performance, energy efficiency, and affordability of our nation's housing. BTS supports PATH through R&D in energy efficient technologies and practices; by developing codes, standards, and guidelines that increase the minimum efficiency of homes; and by encouraging the use of BTS technologies through technology transfer and financial assistance.

Federal Agencies: Setting an Example with

Energy Savings

FOR THE 21ST CENTURY

U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY
AND RENEWABLE ENERGY



Ask Richard B. Bronowski, Assistant Buildings Manager at the Denver Federal Center, what the Federal Energy Management Program (FEMP) has done for him and his agency. FEMP chose a 14-story building at the Federal Center to demonstrate technology that reduces water usage by as much as 50%. In addition, the related energy savings from decreased hot water use, waste treatment, and pumping are significant. According to Bronowski, "FEMP was the driving force that got this project started."

The Denver Federal Center's success represents just a small fraction of the savings that the world's largest energy consumer—the U.S. federal government—can achieve through smart energy management. The federal government spends nearly \$8 billion annually to run its 500,000 buildings, vehicles, and other energy intensive activities. FEMP helps federal agencies reduce these energy costs, apply renewable energy technologies, and conserve water.

On June 3, 1999, President Bill Clinton issued a new executive order that bolsters the federal government's commitment to energy and environmental progress in the operations of its own facilities. Entitled "Greening the Government Through Efficient Energy Management," Executive Order 13123 sets new goals for government-wide energy efficiency and establishes the framework for oversight and guidance by FEMP and its governmental partners to achieve these targets. The new executive order establishes a goal to reduce energy consumption per gross square foot by 35% in 2010, compared to 1985. Achieving this objective will save taxpayers more than \$750 million per year and cut greenhouse gas emissions by 2.4 million tons from current levels—the equivalent of removing 1.7 million cars from the road.

As the central point of contact for more than 100 federal agencies, FEMP

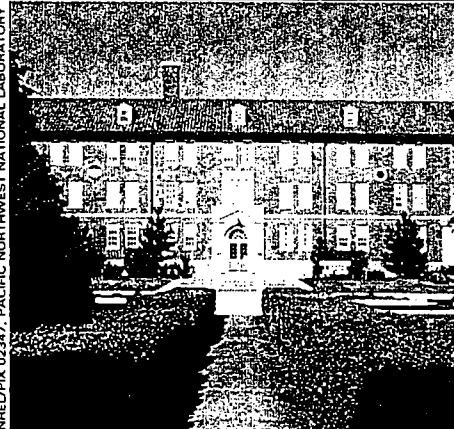
is helping agencies accomplish these reductions by creating partnerships, leveraging resources, transferring technology, and providing training and technical assistance. FEMP helps agencies find private-sector financing mechanisms; leads interagency and public/private partnerships; and conducts training, audits, and technology demonstrations to help agencies identify their best energy project investments.

Project Financing

With FEMP's help in developing partnerships between government agencies and private companies, federal energy efficiency projects are increasingly being financed through utility incentive programs and private energy service companies. These partnerships use energy saving performance contracts (ESPCs) and utility programs to pay the up-front costs of efficiency improvements. The federal return on investment is \$2 for every \$1 invested.

FEMP has a coordinated network of services and experts to assist agencies in achieving their energy and dollar savings. Agencies can now obtain FEMP expertise efficiently and effectively to implement alternatively financed projects. FEMP services range from assistance with contract planning to comprehensive technical support. Obtaining agency funds for energy projects may be an

NREL/PIX 02347, PACIFIC NORTHWEST NATIONAL LABORATORY



Energy efficient lighting retrofits and appliance upgrades at the Headquarters of I Corps in Ft. Lewis, Washington, are just a few of the changes made to the 4200 buildings at this military installation through FEMP.

How FEMP is working for you

- ❑ Reduces building energy costs
- ❑ Saves taxpayers' money
- ❑ Leverages \$2 in net savings for every \$1 invested
- ❑ Expands the marketplace for new renewable energy and energy efficiency technologies
- ❑ Reduces pollution—by 2010, the equivalent of 2.5 million metric tons of carbon emissions will be avoided annually
- ❑ Ensures hazardous materials are used sparingly and disposed of properly
- ❑ Promotes environmentally sound building design and operations

NREL/PIX 05426, KENT BULLARD, NATIONAL PARK SERVICE

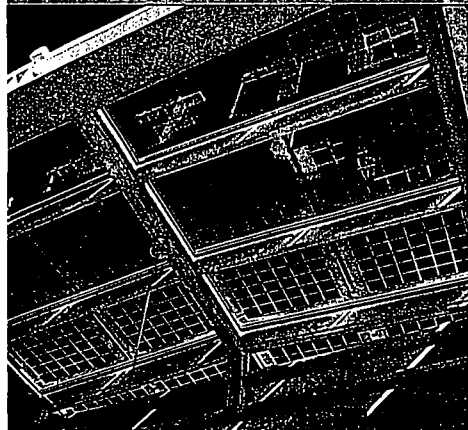


FEMP's technical assistance helps the National Park Service use renewable energy such as this hybrid wind/photovoltaic energy system that powers the ranger station on San Miguel Island, California, to safeguard pristine areas.



The Carl Hayden Visitor's Center at Glen Canyon Dam in Arizona is a FEMP Energy Saver Showcase facility that uses a variety of energy efficient, renewable energy, and water conservation technologies.

FEDERAL ENERGY MANAGEMENT PROGRAM



NREL/PIX 01052, LAWRENCE BERKELEY NATIONAL LABORATORY

The skylighted entryway at the Thoreau Center for Sustainability at Presidio National Park, San Francisco, California, uses photovoltaic cells that are laminated to the skylight glass to produce electricity as well as to shade and daylight.

"We expect most federal facilities can save 15% to 40% annually on their energy bills if they use these innovative contracts...All around it is good for the economy, good for the environment, and good for the taxpayers."

SECRETARY OF ENERGY
BILL RICHARDSON
SPEAKING ABOUT THE FEMP
SUPER ESPC PROCESS,
MARCH 1999

Contacts

FEMP Web site
www.eren.doe.gov/femp
FEMP Help Desk
800-363-3732



Produced for the U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy
by the National Renewable Energy Laboratory,
a DOE national laboratory

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December 1999

energy manager's biggest hurdle, so FEMP answers questions and helps arrange project financing that requires no up-front capital investment. FEMP technical services are available for alternatively financed projects on a cost-reimbursable basis to any agency.

Technical Guidance and Assistance

Through training programs, on-site audits, design assistance, and technology applications, FEMP helps agencies identify the best, most cost-effective energy efficiency, water-saving, and renewable energy projects. To create a well-trained federal workforce, FEMP conducts Internet and classroom-based workshops. FEMP also performs technology demonstrations and holds an annual conference and trade show for federal energy and facility managers, engineers, contract administrators, and decision makers.

FEMP helps to promote cutting-edge renewable energy technologies by training facility managers and showcasing cost-effective applications. FEMP also identifies federal market opportunities and works with procurement organizations to aggregate purchases, reduce costs, and expand markets for energy efficient and renewable energy products. To assist agencies in best-product procurement practices, FEMP has compiled energy efficiency recommendations for new construction, sustainable design, and various home and office products.

Planning, Reporting, and Evaluation

Collecting and distributing information on how different federal facilities are using energy and water wisely is another way FEMP helps agencies to make the best decisions about saving energy. One of FEMP's primary responsibilities is coordinating and reporting to Congress on agencies' efforts to achieve federal energy management goals. FEMP coordinates the federal Interagency Energy Policy Committee and the Interagency Energy Management Task Force to encourage cooperation and strategic energy management.

In addition to submitting an annual report to Congress, FEMP disseminates case studies and other materials that highlight agencies' progress through publications and electronic media. FEMP also manages the *You Have the Power* campaign to raise awareness among federal employees about saving energy, money, and future resources. Through the campaign's Web site, print materials, private-sector partnerships, and recognition of Energy Champions—federal employees who are doing great things to save energy—*You Have the Power* is helping to propel the federal sector into an energy efficient era.

"We must all do our part to protect the environment, and as the nation's largest energy consumer, the federal government must lead."

PRESIDENT BILL CLINTON,
RADIO ADDRESS TO THE NATION,
JULY 1998



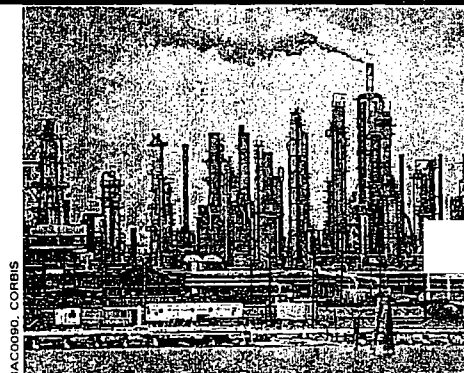
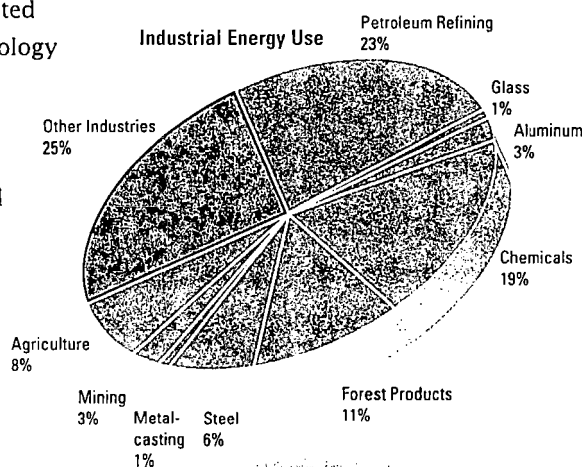
Turning Visions INTO REALITY

Walk into a plant of one of the U.S. Department of Energy's (DOE) industrial research partners and you are likely to see non-toxic, biodegradable solvents; energy-saving, low-emission kilns; and manufacturing processes driven by hot flue gases. These are just a few of the innovative systems DOE and its Office of Industrial Technologies (OIT) bring to U.S. industry, helping them to lower processing costs, energy use, and environmental impacts. In partnership with industry, OIT is helping to develop, demonstrate, and deploy technologies that could save more than a quadrillion British thermal units (Btu) of energy a year (equal to about 178 million barrels of oil), increasing to 1.47 quads by 2010, and 4.5 quads by 2020. Greenhouse gas emissions could also be reduced by more than 25 million tons each year as a result of these new technologies and processes.

Industries of the Future

Since the mid-1990s, OIT has operated under an industry-driven, customer-focused strategy known as *Industries of the Future*. Under this strategy, OIT brings together stakeholders in the most energy-intensive industries—including steel, metalcasting, aluminum, glass, mining, agriculture, chemicals, forest products, and petroleum (which together account for about 75% of all U.S. industrial energy use)—to create a vision of the future for each industry and to devise a strategic plan that will help them achieve their vision. This strategy enables OIT and other technology-supporting organizations to better target their customers' needs and make maximum use of limited resources. In response to technology needs identified by industry in its strategic plans, OIT issues competitive solicitations that result in cost-shared, integrated teams including industrial technology users, suppliers, universities, and DOE national laboratories. OIT supports precompetitive technology that can benefit a wide range of U.S. industry.

OIT works with industry to cooperatively identify and pursue research, development, and demonstration of ultra-high-efficiency power systems, along with other key technologies that are important to a large cross-section of U.S. industries. For example, as part of DOE's focus on clean energy, OIT supports the development and demonstration of systems for industry, including advanced turbine systems, reciprocating engines, and microturbines. These clean energy technologies have potential applications across a broad spectrum of different industries and focus on increasing the efficiency of industrial systems by 15%.



The petroleum industry, which accounts for 23% of all U.S. industrial energy use, is working with OIT to develop an industry-wide plan that will lead to greater adoption of energy-efficient technologies.

What's in it for your company, your industry, and the nation?

Your company:

- ❑ Reduces research and development costs and risks
- ❑ Leverages funds and information resources
- ❑ Enhances corporate image

Your industry:

- ❑ Saves energy and materials
- ❑ Facilitates cost-effective regulatory compliance
- ❑ Increases productivity and reduces waste
- ❑ Improves its global competitiveness

The nation gains:

- ❑ A cleaner, healthier environment
- ❑ Greater energy security
- ❑ A more robust economy



OIT supports the development and demonstration of ultra-high-efficiency power systems for industry, including advanced turbine technology.

THE OFFICE OF INDUSTRIAL TECHNOLOGIES



The mining industry, in partnership with OIT, is helping to reduce energy use in this energy-intensive industry.

"The [Industries of the Future process] has allowed us not only to identify but to prioritize the types of things that really make sense for us to work on together."

TOM USHER,
CEO OF USX CORPORATION,
OCTOBER 1999

Contacts

OIT has numerous information resources and tools to help industry become more energy efficient. Check out our software, databases, financing information, publications, industry visions, roadmaps, and more on our Web site at www.oit.doe.gov.



Produced for the U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy
by the National Renewable Energy Laboratory
a DOE national laboratory

DOE/GO-10099-922
December 1999

An Integrated Delivery Strategy

To better satisfy customer needs, OIT employs customer-focused, integrated delivery of its many products and services. All applicable technologies, tools, and expertise from different areas of the organization are brought to the customer in an integrated fashion. For example, a firm that has just learned how to save thousands of dollars through an Industrial Assessment Center energy-use audit might also benefit from other valuable services and technologies that OIT offers, such as technology advances in motors, sensors and controls, or industrial materials. With OIT's integrated delivery mechanisms in place, industries will be able to take advantage of the full range of opportunities available from OIT.

"Our ultimate goal is to ensure that our customers can more easily and rapidly take advantage of any emerging technology or service in our wide-ranging portfolio," says Dan Reicher,

Assistant Secretary of EERE. "We want to help them use energy more efficiently, improve productivity, and reduce waste and emissions." About 120 OIT-supported emerging technologies are expected to be commercialized within the next two years.

Partnerships Pay Off

Industry accounts for 37% of the energy we consume as a nation. Many manufacturing processes could be made more efficient. OIT's collaborations with industry improve the energy efficiency and productivity of industrial processes and are reflected in profit margins.

Faced with the rapid pace of technology innovation and the rising cost of R&D, few organizations possess the resources needed to develop advanced technologies alone. Driven by pressures to reduce costs and improve productivity, U.S. industry is realizing that technology partnerships such as those supported by OIT pay off in improved energy efficiency and competitiveness.

In August 1999, President Bill Clinton announced a national bioenergy initiative that will accelerate the use of biomass to produce energy and chemicals. Biomass is any organic material that is produced by the process of photosynthesis. It can be found in crops and crop wastes and residues, wood and wood wastes and residues, animal wastes, municipal wastes, and aquatic plants. For industry, this initiative will build on existing efforts within OIT to create new and economically viable options for farmers, foresters, and chemical manufacturers to use and profit from biobased commodities, products, and services.

Electricity

IN THE 21ST CENTURY



Electricity is indispensable to modern society, and the demand for it is growing. Although energy efficiency measures can help meet some of the increased demand, additional electricity production may also be necessary. Fossil fuels provide the power for many of today's technologies, but their use contributes to air pollution and produces greenhouse gases. In the new century, the world will increasingly be powered by nonpolluting and renewable energy sources, such as the sun, wind, organic matter, geothermal energy, and hydropower along with clean-burning natural gas. In concert with the electricity industry, the U.S. Department of Energy's (DOE) Office of Power Technologies (OPT) is leading the nation's effort to develop clean, competitive, reliable power technologies for the 21st century.

Transforming U.S. Power Generation and Delivery

OPT directs research, development, and demonstration (RD&D) programs for an integrated portfolio of renewable power technologies and advanced electric power systems. Those technologies include photovoltaics (PV), solar buildings, concentrating solar power, bio-power, wind power, geothermal power, and hydroelectric power.

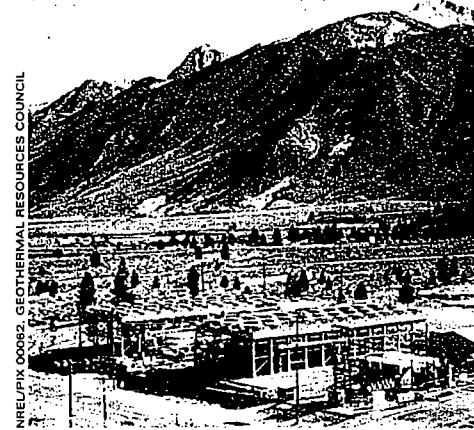
OPT also manages R&D that integrates power from renewable energy resources into the nation's electric grid and/or improves the efficiency and reliability of the electric sector including advanced transmission reliability technologies, high-temperature superconductivity, energy storage, and hydrogen power systems. As part of its electric power systems portfolio, OPT is addressing impediments to the increased use of distributed power (decentralized power-generating technologies).

Internationally, OPT encourages greater use of U.S. energy technologies in the world marketplace by providing technical assistance and information to energy users and their intermediaries, including governments, trade organizations, and professional associations.

Harnessing Renewable Energy

OPT-managed RD&D has contributed to performance and cost improvements in several renewable energy technologies over the past two decades.

- The cost of electricity from wind energy has dropped from 35–40 cents per kilowatt-hour (kWh) in 1980 to 4–5 cents/kWh today. Wind power is now competitive with traditional generating technologies in some parts of the country. The further development of the next generation wind turbine, coupled with the Wind Powering America Initiative, will bring us even closer to the DOE goal of providing 5% of the nation's electricity needs with wind energy in 2020.
- OPT-supported research has cut the cost of solar water heaters from 20 cents/kWh in 1980 to 8 cents/kWh today. OPT research also led to transpired solar collector technology which reduces the cost of solar air heating from 20 cents/kWh to about 2 cents/kWh.
- Worldwide, the PV industry has grown to more than \$1 billion in annual sales. Of this amount, the U.S. PV industry, which has grown from a few government-supported



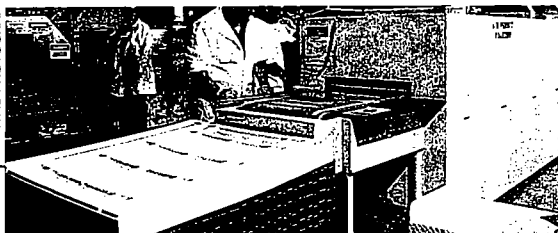
Geothermal power plants, such as the Mammoth Pacific Power Plant in California, are among the cleanest sources of electric power currently available, and generate nearly 2800 megawatts of power for our country.

Changes in the Power Industry

As the electricity industry is restructured, one of OPT's major efforts is to ensure the reliability of the nation's electricity supply. Although emerging competition in the electricity industry makes power reliability a major concern, it is also opening the door to renewable energy technologies by favoring small, modular power plants. In addition to generating electricity at central power plants, providers are adding smaller generating units to the distribution grid to avoid expensive transmission line upgrades. OPT is working with industry stakeholders to streamline this integration, which helps small power providers compete in the electricity market and enhances consumer choice among power supply options.

Benefits of OPT's Work

- Access to an inexhaustible, domestic fuel supply
- Greater power reliability and quality
- Cleaner environment
- Lower greenhouse gas emissions
- Lower electricity costs from sustainable sources.



The U.S. PV industry is thriving, with annual sales totaling more than \$500 million. U.S. manufacturers are expanding their output to meet the growing demand for PV systems, and are generating many new jobs as a result.

THE OFFICE OF POWER TECHNOLOGIES



NREL/PIX 05591, GREEN MOUNTAIN POWER CORP.

EERE's goal of providing 5% of the nation's electricity needs with wind energy in 2020 will be achieved through the use of wind power plants, such as this one in New England.

For More Information

Visit the OPT Web site at <http://www.eren.doe.gov/power/>
Read *Dollars from Sense: The Economic Benefits of Renewable Energy* (DOE/GO-10097-261), which highlights renewable energy power projects in several states. This document is posted on the OPT Web site under *Information Resources*.



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by the National Renewable Energy Laboratory,
a DOE national laboratory

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companies into a thriving business, accounts for more than \$500 million. The cost of electricity from PV is now 25–30 cents/kWh, down from about \$1/kWh in 1980. Ongoing solar energy R&D efforts, complemented by the Million Solar Roofs Initiative, are projected to result in the installation of one million PV and solar hot water systems across the nation by 2010.

- The biomass power industry has grown to 350 U.S. power plants providing 7000 megawatts (MW) of power. New, high-efficiency gasifier technologies are currently being tested. Coupled with other DOE research in biofuels, the power program is part of an integrated Bioenergy Initiative.
- Concentrating solar power technologies have moved from the research laboratory to the field, with 354 MW of capacity produced by parabolic-trough systems in the Mojave Desert, and a 25-kW dish/engine system which is being tested in Arizona.
- Geothermal power plants, once restricted to a single location in northern California, now generate 2800 MW from facilities in four states. Geothermal heat pumps, which use buried pipes to heat or cool buildings, are commercially available, with more than 400,000 installations to date.
- Hydroelectric power is currently the nation's largest renewable energy source of electricity. OPT is developing advanced hydroelectric technologies, including turbines that have low fish-mortality rates.

- Materials that achieve superconductivity at high temperatures can save energy in the generation, transmission, and use of electricity, potentially saving as much as 10% of all the electricity generated in the United States. Once confined to research laboratories, these materials are now being applied in the development of super-efficient generators, cables, motors, and other electrical devices.

The success of these technologies is good news for the nation. Renewable energy and advanced power systems improve our nation's energy security and help to protect the environment. And, as markets in the developing world expand, these technologies represent an increasingly important export commodity for U.S. businesses.

Committed to Deployment

Much of OPT's research is cost-shared with industry, whose contribution ranges between 30% and 75% of the project's total budget, particularly for system hardware development and demonstration. Industry's willingness to share the cost of this R&D reflects its belief in the market potential of these technologies and its commitment to commercialize and deploy them.

OPT works with industry through Cooperative R&D Agreements (CRADAs), joint initiatives, and user facilities such as the National Wind Technology Center and the National Center for Photovoltaics. Partnerships with the power industry, universities, and other stakeholders are encouraged, and these alliances play a critical role in bringing clean energy technologies to market.

Transportation

FOR THE 21ST CENTURY



Take a ride in a taxicab or bus fueled by natural gas or slide behind the wheel of a new hybrid automobile which is powered by an electric battery and a gasoline engine, and you'll be using technology developed with support from the U.S. Department of Energy's (DOE) Office of Transportation Technologies (OTT). By using new fuel blends, lightweight materials, and innovative engine designs developed through research and development programs supported by OTT, technology being used in your neighborhood today is changing the character of American transportation.

Transportation accounts for more than 65% of the oil consumed in this country, and more than half of that oil is imported. To reverse this trend, OTT supports research in new engine technologies and designs, new lightweight materials for vehicles, and new cleaner burning fuels and fuel distribution systems. Because they will enable our 21st century vehicles to run cleaner and go farther on a gallon of fuel, these technologies will help reduce our nation's dependence on foreign oil imports and reduce the air-polluting emissions caused by the combustion of fossil fuels.

Research Paves the Way

OTT has many noteworthy research, development, and deployment objectives for the next century in areas such as fuel cell systems; diesel engines; electric batteries; hybrid systems; lightweight materials for vehicle parts and long-lasting lubricants; alternative fuels such as ethanol, methanol, biodiesel, natural gas, and hydrogen; fleet evaluation and testing; and information outreach and technology transfer.

For example, OTT-funded research in fuel-cell technology has sprinted forward with the development of an ultra-compact fuel reformer that converts any fuel into hydrogen to power a vehicle fuel cell. The compact reformer, a *Discover Magazine* award winner for

technological innovation, is the size of a soup can and reduces smog-causing emissions by 90%. This work, done at the Massachusetts Institute of Technology, is a big step toward the DOE goal of validating vehicle fuel-cell systems that will meet customer cost and performance expectations by 2004.

Fuel cells are but one option in OTT's integrated systems approach to improving U.S. transportation in the 21st century. OTT is also developing fundamental technologies for non-petroleum, alternative fuel engines powered by natural gas, biodiesel, methanol, ethanol, E-85 (ethanol/gasoline mixture), and M-85 (methanol/gasoline mixture). Evidence that this research is paying off for U.S. industry and consumers can be found in the announcement by the United States Postal Service (USPS) to augment its 1998 purchase of 10,000 ethanol flexible-fuel vehicles by adding 11,275 more by the end of 1999. In addition, recent progress in the development and introduction of hybrid vehicles is a result of OTT's successful partnership with industry.

These and many other advances are being implemented through efforts such as the Clean Cities Program, a voluntary, locally based government and industry partnership coordinated by DOE. Clean Cities is designed to promote the use



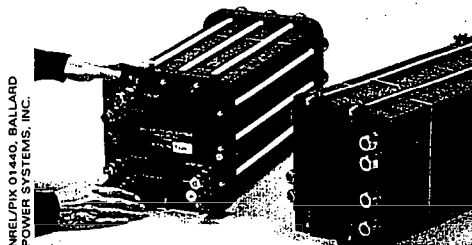
NREL/PK 06254, ATLANTA GAS LIGHT

This fleet of natural gas taxis in Atlanta, Georgia, exemplifies the successful Clean Cities Program, which encourages the voluntary use of alternative fuel vehicles and the development of a supporting infrastructure throughout the nation.

Benefits Driving Us into the 21st Century

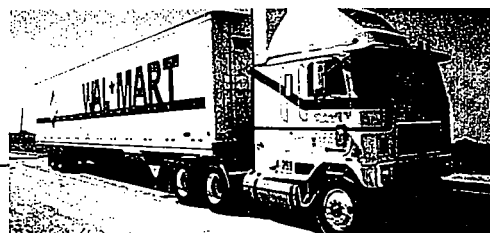
Technologies developed with the assistance of OTT research will significantly benefit the American auto industry, the American economy, and the environment.

- A more competitive auto industry will improve the balance of trade.
- Domestically produced fuels will expand agricultural markets.
- More jobs will be created in the automotive and agricultural sectors.
- Increased vehicle fuel efficiency will lower vehicle emissions.



NREL/PK 01440, BALLARD POWER SYSTEMS, INC.

The fuel cell on the left is a previous generation of proton-exchange membrane technology and can generate 5 kW of power; the fuel cell on the right is about the same size, but can generate 13 kW of electricity, demonstrating the rapid advancement in fuel-cell technology. Each fuel cell can fit within the engine compartment of a diesel bus.



NREL/PIX 03472
ACUREX ENVIRONMENTAL

This alternative fuel heavy-duty truck runs on liquefied natural gas.

THE OFFICE OF TRANSPORTATION TECHNOLOGIES



NREL/PIX 03560, WARREN GRETZ
INSET: NREL/PIX 04979, DAVID PARSONS

Alternative fuel vehicles such as this ethanol-powered bus will help reduce our nation's dependence on foreign oil imports, and reduce emissions caused by the combustion of fossil fuels. Inset: A DOE researcher examines cellulase enzymes used to produce ethanol through a fermentation process.

Contacts

Office of Transportation Technologies

www.ott.doe.gov

Clean Cities Hotline

9300 Lee Highway
Fairfax, VA 22031-1207

1-800-CCITIES

or 1-800-224-8437

ccities@nrel.gov

www.ccities.doe.gov

Alternative Fuels Data Center

1617 Cole Boulevard
Golden, CO 80401

1-800-423-1DOE

or 1-800-423-1363

hotline@afdc.nrel.gov

www.afdc.doe.gov



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a DOE national laboratory

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of alternative fuels and alternative fuel vehicles, achieve cleaner air in major U.S. cities, reduce dependence on imported oil, and stimulate local economic activity. Clean Cities creates an effective plan, carried out at the local level, for development of a sustainable, nationwide alternative fuels market. Information on Clean Cities fleets and other alternative fuel fleets is available through OTT's Alternative Fuels Data Center (see contacts).

Partnerships For a Cleaner, Competitive Future

The challenges of the future cannot be met with government funding and research alone. OTT advances must be transferred to U.S. industry and consumers if the nation is to achieve their ultimate benefits. To perform R&D, technology transfer, and information outreach, OTT has partnered with the private sector using several forums, including the Partnership for a New Generation of Vehicles (PNGV), the U.S. Advanced Battery Consortium, the Graduate Automotive Technology Education Program, and others.

The PNGV is a result of a vision shared by the federal government and the CEOs of Ford, General Motors, and DaimlerChrysler. They joined together in September 1993 to:

- Develop manufacturing techniques to reduce the time and cost of automotive development
- Improve fuel efficiency and emissions performance
- Develop a vehicle with up to triple the fuel economy of today's mid-size cars while maintaining or improving safety, performance, comfort, emissions, and price.

Under an aggressive PNGV timetable, production prototypes capable of providing up to 80 mpg will be unveiled by 2004.

At the same time OTT is working toward cleaner running, more energy efficient vehicles, it is also supporting research in cleaner burning, more energy efficient fuels. OTT, along with several DOE offices and other government agencies, is participating in the new bioenergy initiative announced by President Bill Clinton in August 1999. OTT's participation in the initiative will help expand the U.S. biofuels industry and improve the nation's economy, especially in the agricultural sector. Biofuels are derived from biomass materials, which include crops, agricultural residues, forest residues, and municipal solid waste. Agricultural residues, such as sugar cane bagasse and rice straw, along with municipal solid wastes, offer near term opportunities to demonstrate the technologies under development by OTT and its partners (which include Masada Resources Group, Arkenol, Inc., and BC International Corporation). These potential waste disposal problems become a source of low- or no-cost feedstocks for conversion facilities. For example, corn stover—a generic term for leaves, stalks, and sometimes cobs—represents the largest available farm-produced feedstock in the United States. OTT is working with existing corn ethanol producers and farmers to explore the potential of expanding the existing ethanol industry by using this resource. The Presidential initiative will help reduce the cost of biofuels through development of lower cost, faster acting biomass conversion processes.

The DOE Regional Office Network: Your Link to Energy Savings and

Livable Communities

IN THE 21ST CENTURY

U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY
AND RENEWABLE ENERGY



The U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) has six Regional Offices located around the country—in Atlanta, Boston, Chicago, Denver, Philadelphia, and Seattle. These Regional Offices are the key DOE catalyst in the development of a "bottom-up" approach to energy efficiency and renewable energy. They work with states and communities to promote EERE programs, and to identify and engage community and state partners. The Regional Offices also integrate EERE programs with other public and private activities to create strong partnerships for the implementation of energy efficiency and renewable energy programs and projects across the nation. They are the front line in meeting the needs of individual citizens, cities, counties, and states.

For example, states and communities nationwide are showing increasing interest in smart growth and livability issues. EERE's Regional Offices, in cooperation with state energy offices, help communities utilize DOE's energy efficiency and renewable energy programs to address local smart growth concerns and improve local livability. Among other goals, these programs can reduce air pollution and the public health problems associated with it, help renovate buildings, make houses more affordable, reduce energy bills for low-income families, reduce energy costs and tax outlays for local governments, and stem the flow of energy dollars from local economies.

Specifically, the Regional Offices serve as a regional liaison for many of the programs sponsored by EERE, including:

Building Technology, State and Community Programs

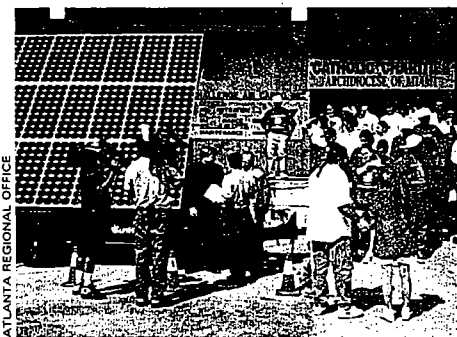
- ▣ Rebuild America
- ▣ Building America
- ▣ State Energy Programs and Grants
- ▣ Weatherization Assistance Program
- ▣ Home Energy Ratings Systems
- ▣ Building Standards and Guidelines
- ▣ ENERGY STAR®
- ▣ Energy Smart Schools

Federal Energy Management Program

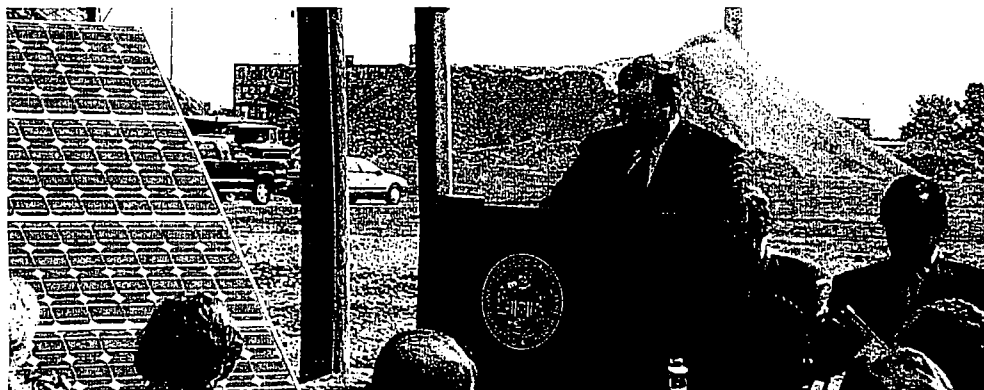
- ▣ Energy Saving Performance Contracting
- ▣ Utility Services Contracting
- ▣ Energy Efficient Procurement
- ▣ Design Assistance and Building Commissioning Guides
- ▣ Greening Initiatives
- ▣ New Technology Demonstration Program
- ▣ SavEnergy Program Audits
- ▣ You Have the Power Campaign



The Rebuild Boston Energy Initiative, a Rebuild America Partnership, has retrofitted more than 8.5 million square feet of building space throughout the City of Boston.



Jim Powell, Director of the Atlanta Regional Office (ARO), stands with a representative of the Archdiocese of Miami as they are interviewed by a television reporter about the Diocese's use of the 1800 watt photovoltaic generator. The ARO loaned the equipment to Catholic Charities to power their emergency materials collection/distribution center during the aftermath of Hurricane Georges.

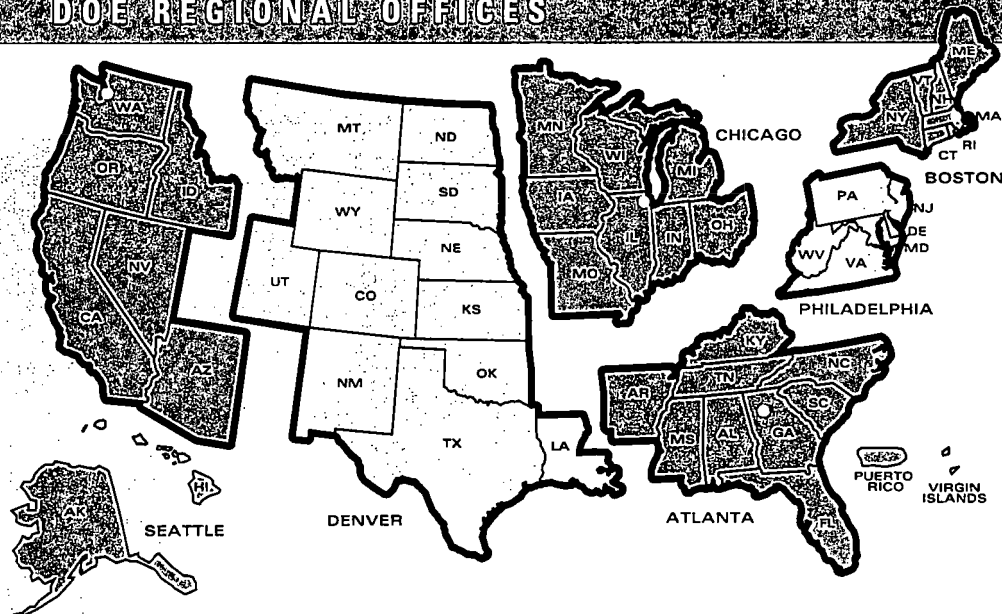


Mayor of Chicago, Richard M. Daley, and Secretary of Energy, Bill Richardson, announce the conversion of an abandoned dump site into an industrial property that will be cleaned up and redeveloped for new industry and other purposes. This project is just one example of an urban land recycling initiative known as "Brightfields." This project was facilitated by DOE through its Chicago Regional Office.

"...This development will clean up an abandoned dump, attract an environmentally friendly industry to Chicago and create jobs for neighborhood residents. The City and its partners are ensuring energy efficiency and reliability, and improved air quality."

CHICAGO MAYOR RICHARD M. DALEY, AUGUST 1999.

DOE REGIONAL OFFICES



The Regional Offices represent DOE's energy efficiency and renewable energy programs in the states as follows:

Atlanta Regional Office (ARO)
Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico and the U.S. Virgin Islands.

For more information, call 404-347-2696
or visit www.eren.doe.gov/aro

Boston Regional Office (BRO)
Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont.

For more information, call 617-565-9700
or visit www.eren.doe.gov/bro

Chicago Regional Office (CRO)
Illinois, Iowa, Indiana, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.

For more information, call 312-353-6749
or visit www.eren.doe.gov/cro

Denver Regional Office (DRO)
Colorado, Kansas, Louisiana, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, and Wyoming.

For more information, call 303-275-4826
or visit www.eren.doe.gov/dro

Philadelphia Regional Office (PRO)
Delaware, Maryland, New Jersey, Pennsylvania, Virginia, West Virginia, and the District of Columbia.

For more information, call 215-656-6950
or visit www.eren.doe.gov/pro

Seattle Regional Office (SRO)
Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon and Washington; the territories of Guam and American Samoa; the Commonwealth of the Northern Marianas, and the Republic of Palau.

For more information, call 206-553-1004
or visit www.eren.doe.gov/sro

Industrial Technologies Programs

- ▣ Industries of the Future
- ▣ National Industrial Competitiveness Through Energy, Environment and Economics (NICE³)
- ▣ Bioenergy Initiative
- ▣ Inventions and Innovation
- ▣ Industrial Assessment Centers
- ▣ Best Practices

Power Technologies Programs

- ▣ Geothermal Exchange
- ▣ Bioenergy Initiative
- ▣ Utility Photovoltaic Group
- ▣ Utility Restructuring
- ▣ Climate Challenge
- ▣ Wind Powering America
- ▣ Brightfields Initiative
- ▣ Million Solar Roofs Initiative

Transportation Technologies

- ▣ Clean Cities
- ▣ Bioenergy Initiative

For More Information

on DOE's livable communities programs,
visit the sustainable communities Web site
at www.sustainable.doe.gov.



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a DOE national laboratory

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Serving as the primary field agent for DOE's Office of Energy Efficiency and Renewable Energy (EERE), the Golden Field Office (Golden) enhances EERE's capability to develop and commercialize renewable energy and energy efficiency technologies.

Project Management and Contract Administration

Working with private-sector organizations in almost every state and Mexico, Golden provides field project management for some 450 renewable energy and energy efficiency projects. These collaborative projects are funded through financial assistance instruments, such as cooperative agreements and grants. They have a total value of nearly \$1 billion, including the cost share from private-sector partners.

Golden also administers the performance-based management contract for the National Renewable Energy Laboratory (NREL), the nation's only national laboratory solely dedicated to research and development of renewable energy and energy efficiency technologies.

Activities conducted by Golden and NREL span many scientific and technical areas, including photovoltaics, solar thermal systems, wind energy, biomass power, alternative fuels, geothermal energy, energy-efficient building systems, and renewable energy resource assessment.

Moving DOE's clean energy technologies from the laboratory to the marketplace is Golden's primary goal. Examples of projects managed by Golden for EERE include:

Hydrogen Program — The program fosters the development of hydrogen production, storage, and utilization technologies. Eventually these technologies will be incorporated into

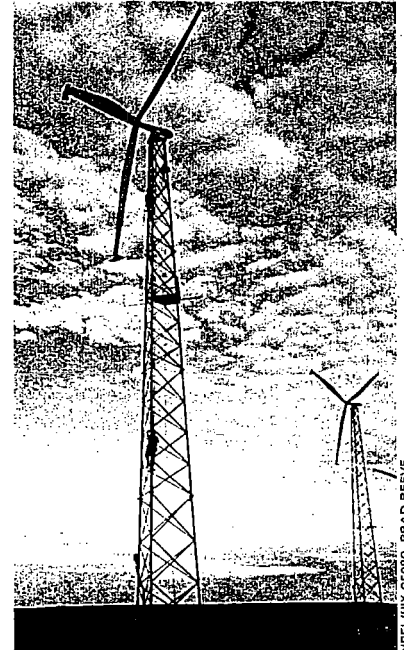
cost effective and safe hydrogen-based energy systems for applications in the utility, building, and transportation sectors.

PV:BONUS: Building Opportunities in the United States for Photovoltaics — The effort is accelerating the commercialization of building-integrated photovoltaics in residential, commercial, and industrial applications.

Vermont Biomass Gasifier — The gasifier project helps EERE researchers with the development and verification of a biomass gasification process using woodchips as the biomass fuel. The project will lead to the commercial application of biomass gasification processes for electric power generation.

Electrochromic Windows Program — The program is accelerating the development of electrochromic window products for commercial building applications. Electrochromic windows—windows that change from clear to opaque when electric current is applied to them—will allow building occupants to control the amount of light entering their buildings. The result is cooler buildings in the summer, warmer buildings in the winter, and increased energy savings year round.

Superconductivity Partnership Initiative — The initiative is designed to accelerate the introduction of high-temperature superconductivity (HTS)



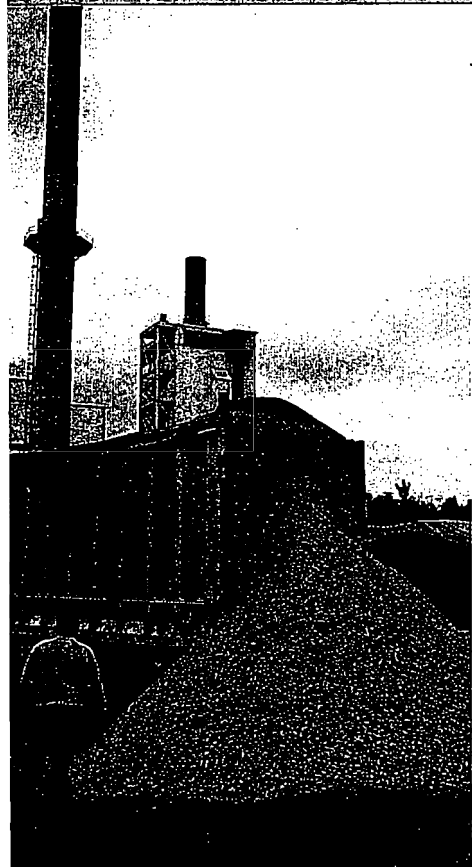
Diverse Partners/Complex Projects

EERE partnerships are promoting advanced technologies, such as this wind turbine (above), not just in America's heartland but from the East Coast to the Alaskan tundra. This image captures the story of Kotzebue, Alaska, located 30 miles north of the Arctic Circle. Power in this remote village has traditionally been provided by diesel generation, with the fuel barged in hundreds of miles, weather permitting. Today wind power provides an increasing amount of the Village's critical power needs as part of a hybrid wind-diesel system. Working together with the Department of Energy's laboratories and field offices, including NREL's world-class National Wind Energy Technology Center and the Golden Field Office, the Kotzebue Electric Association was able to design, install, and successfully demonstrate the economic and environmental benefits of this robust technology.

"Advanced energy technologies can help meet the challenges of economic development, national security, and environmental quality."

PRESIDENT BILL CLINTON, JULY 1998

THE GOLDEN FIELD OFFICE



NREL/PIX 06885, DAVID PARSONS

Partnerships are vital to the success of projects like this biomass gasification project in Vermont. Shown here, a truck dumps wood chips that would otherwise be waste, to be used in the gasifier to generate clean, renewable electric power.

Contacts

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into the electric power marketplace.

Teams consisting of researchers, manufacturers, systems integrators, and end users are currently designing an HTS generator, motor, and cable.

Electric Power Train Program —

Considered as the highest priority for the success of future electric and hybrid-electric vehicles, this program focuses on the development and cost reduction of electronic controls and mechanical motor elements that comprise an electric vehicle power train.

A Catalyst for Partnerships

By working with small and large industries and universities in cost-shared research and development projects, Golden helps develop and transfer technologies to the marketplace, where industry and consumers can use them.

Golden works in close partnership with EERE's six Regional Offices, NREL, the private sector, and other DOE laboratories in carrying out its mission of advancing energy efficiency and renewable energy technologies through laboratory collaboration, industry partnerships, and business support.

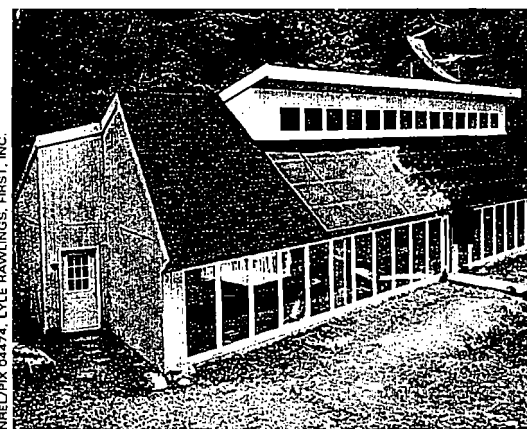
Golden prides itself on being service-oriented and responsive to its customers. In working with industry in cost-shared projects, Golden focuses on innovation and efficiency, and provides industry with an understanding of DOE business practices and needs.

Strengths:

- ▣ Engineering and scientific expertise
- ▣ Project management experience
- ▣ Understanding of the needs and challenges of business
- ▣ Customer-service orientation

Capabilities and Results:

- ▣ Bringing together diverse partners to accomplish complex projects
- ▣ Coordinating DOE's laboratory assets to solve problems
- ▣ Working with entrepreneurs to refine concepts
- ▣ Helping businesses navigate the federal procurement system
- ▣ Ensuring that taxpayers get the most value for their research dollar



NREL/PIX 04474, LYLE RAWLINGS, FIRST, INC.

This FIRST (Fully Integrated Residential Solar Technology) demonstration home in Hopewell, New Jersey, was built to show that a home that integrates advanced passive solar design, photovoltaic power, solar hot water, and highly efficient construction could be built economically in the Northeast.

"By working in partnership to help curb greenhouse gas emissions and save money, the federal government is showing American businesses and families that energy efficiency works."

SECRETARY OF ENERGY BILL RICHARDSON, JUNE 1999

DOE National Laboratories... The Origin of New Energy

Technologies

FOR THE 21ST CENTURY

U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY
AND RENEWABLE ENERGY



The national laboratory system began in the 1940s, driven by World War II. Today, the U.S. Department of Energy (DOE) has nearly 30 laboratories across the country, representing a collection of scientific assets; including staff, equipment, and facilities, unparalleled in their capabilities. Research funded by DOE's Office of Energy Efficiency and Renewable Energy (EERE) is taking place at a number of these labs, and it is an important part of the national laboratory system's portfolio. Research and development (R&D) performed for EERE takes advantage of many fields of inquiry, from basic biological research on plants at Oak Ridge National Laboratory, to the dynamics of energy conversion at the National Renewable Energy Laboratory and Sandia National Laboratories, to fundamental atomic and molecular science at Argonne National Laboratory.

Entree to the Best of the Best

DOE national laboratories have extensive R&D expertise and unique facilities and equipment to advance energy efficiency and renewable energy technologies. They house specialized test facilities and equipment that are too costly for individual industries or organizations to maintain. By providing user facilities to our industries, we create an even playing field for competitive commerce within the nation and give U.S. industry a springboard into the global marketplace. The breakthroughs pioneered at the national laboratories in the 21st century will continue to help shape the nation's clean energy future.

Laboratories Working with EERE

Argonne National Laboratory (ANL) — Located near Chicago, Argonne scientists and engineers develop technologies and processes to improve energy efficiency and reduce emissions. The Transportation Technology R&D Center (TTR&DC) conducts research on automobiles, trucks, railroads, and transportation systems; there are facilities for battery analysis and diagnostics, powertrain and engine testing, conventional and

alternative fuels, metals and ceramics, friction and wear, rapid prototyping, laser processing, and high performance computing. Argonne supports EERE's Industries of the Future Program, with collaborative research focused on energy-intensive industries such as refining, forest products, glass, aluminum, steel, and chemicals. Argonne develops and operates laboratory and pilot-scale facilities to develop cost-effective processes to recover, recycle, and reuse plastics, metals, and chemicals. Visit www.anl.gov

Idaho National Engineering and Environmental Laboratory (INEEL) —

Located in and around Idaho Falls, Idaho, INEEL conducts research to support several EERE programs such as hybrid and electric vehicle research; advanced automotive technologies; intelligent transportation systems; alternative fuels (natural gas, in particular); and alternative energy storage and supply systems. Visit www.inel.gov

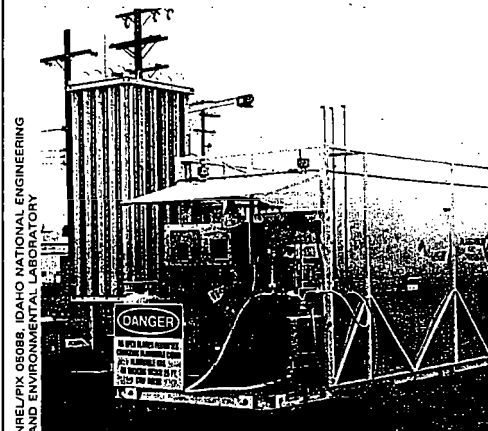
Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) —

Located in the Berkeley Hills of California, LBNL research investigates materials, life sciences, and energy



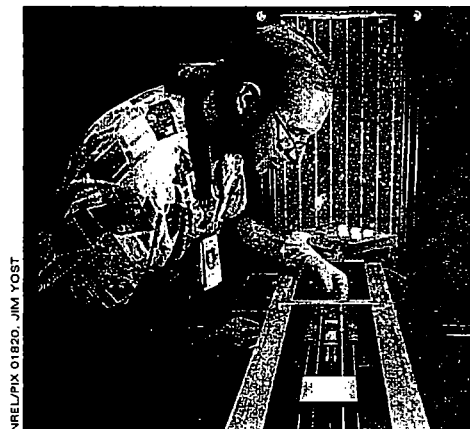
NREL/PIX 05436, WARREN GRETZ

NREL's biomass analysis capabilities lead to a greater understanding of its use as a renewable resource.



NREL/PIX 05088, IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

As part of its liquefied natural gas (LNG) R&D program, INEEL uses this skid-mounted LNG fueling station that can be moved to various locations to service its natural gas vehicles.



NREL/PIX 01820, JIM YOST

A National Center for Photovoltaics engineer at Sandia National Laboratory uses a hail tester to determine the ability of a PV module to withstand the impact of hail stones.

"This country must sustain world leadership in science, mathematics, and engineering if we are to meet the challenges of today...and of tomorrow."

PRESIDENT BILL CLINTON, NOVEMBER 1993

DOE NATIONAL LABORATORIES

efficiency. The Environmental Energy Technologies Division explores energy efficient technologies for the buildings sector: windows; lighting and daylighting; simulation tools; ventilation, infiltration, and thermal distribution systems; and appliance and equipment standards. Other EERE areas include the Federal Energy Management Program, utility deregulation, and global climate change. Visit www.lbl.gov

Lawrence Livermore National

Laboratory (LLNL) — Located in Livermore, California, LLNL's research support to EERE focuses on the Industries of the Future strategy led by DOE's Office of Industrial Technologies. The laboratory works cooperatively with EERE and key industries—aluminum, chemicals, forest products, glass, metalcasting, steel, and agriculture—to develop processes that increase productivity and minimize energy use. LLNL staff works with other EERE offices on hydrogen conversion research. Visit www.llnl.gov

National Renewable Energy

Laboratory (NREL) — Located in Golden, Colorado, NREL develops renewable energy and energy efficiency technologies and works to transfer these technologies to the private sector. NREL

conducts research on photovoltaics, wind energy, biomass-derived fuels and chemicals, buildings, advanced vehicles, industrial processes, solar thermal systems, hydrogen fuel cells, superconductivity, geothermal and waste-to-energy technologies. Several of EERE's scientific user facilities are located at NREL, including the Alternative Fuels User Facility, the Field Test Laboratory Building, the High-Flux Solar Furnace, the National Wind Technology Center, the Outdoor Test Facility for photovoltaics testing and experiments, the Solar Energy Research Facility, the Solar Radiation Research Laboratory, and the Thermal Test Facility. Visit www.nrel.gov

Oak Ridge National Laboratory

(ORNL) — Located in Oak Ridge, Tennessee, ORNL works with several EERE sectors. Technologies for transportation systems include automotive technologies, materials, and use of alternative fuels. Technologies for the building sector include heating, cooling, and refrigeration equipment; roofs, walls, and foundations; and retrofit of existing structures. Research for industrial processes includes bioprocessing, electric motors, turbines, materials, and heat pumps. Technologies for utilities include high-temperature superconductors, power transmission and distribution systems, and electromagnetic field effects. ORNL is home to two national user facilities—the High Temperature Materials Laboratory and the Buildings Technology Center. Visit www.ornl.gov

Pacific Northwest National

Laboratory (PNNL) — Located in Richland, Washington, PNNL conducts research in energy, the environment, and the economy. PNNL's work for EERE focuses on buildings and transportation research. Building research concentrates on developing and deploying energy codes and commercial equipment standards as well as on products that enhance the efficiency of buildings. Research in the transportation sector focuses on lightweight materials, emissions control, and microtechnologies. Visit www.pnl.gov

Sandia National Laboratories (SNL) —

Located in Albuquerque, New Mexico, and Livermore, California, SNL supports EERE in developing commercially viable energy technologies based on solar, wind, and geothermal resources. Sandia houses two DOE user facilities: the Solar Thermal Design Assistance Center and the National Solar Thermal Test Facility. Visit www.sandia.gov

Access to Virtual Resources

DOE's Laboratory Coordinating Council (LCC) provides access to some of the finest research facilities in the world. The LCC serves as a "virtual" laboratory that can be tailored to meet the research needs of almost any industry. Industry researchers no longer need to approach each lab separately because the LCC functions in a distributed manner through common intellectual property agreements and other mechanisms. Visit www.oit.doe.gov/LCC



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