



2007 Annual Report

Environmental and Energy Study Institute

educates Congress, builds coalitions,
and develops innovative policies to protect
the climate and ensure a healthy, secure,
and sustainable future for America



Energy and Climate Program

In 2007, energy and climate legislation became a hot bed of activity. House Speaker Nancy Pelosi called for a legislative package for energy independence and created the Select Committee on Energy Independence and Global Warming to address both US dangerous dependence on foreign oil and the looming threat of climate change. The International Panel on Climate Change's Fourth Assessment Report brought significant media attention to climate change as did many new reports documenting acceleration of impacts from climate change.

At least 15 pieces of legislation related to climate change and more than 170 bills on energy efficiency and renewable energy were introduced in Congress. Rep. Dingell (D-MI), Chair of the House Energy and Commerce Committee issued a number of Climate Change Legislation Design White Papers to explore policy options. Dozens of hearings on energy and climate were held. By December 5, the Senate Environment and Public Works Committee had favorably reported the Lieberman-Warner Climate Security Act of 2007 (S. 2191) by a vote of 11-8, the first time that a bill mandating economy-wide reductions in greenhouse gas emissions had been approved by committee.

Policy

FY 08 Energy Efficiency and Renewable Energy Budget

When the President released his FY 08 budget request in February, EESI staff released an analysis, highlighting the impacts on energy efficiency and renewable energy programs, as we do each year. Our annual budget analyses are widely used by the press, Congressional offices and the policy community.

The President's FY 08 budget request totally cut core geothermal and hydropower programs and slashed many critical energy efficiency programs. EESI launched into action., urging Members to support a "Dear Colleague" letter from Rep. Udall (D-CO) asking House appropriators to restore energy efficiency and renewable energy (EE/RE)



funding. EESI held a key Congressional briefing on the energy budget as well as briefings on the latest developments in geothermal energy, hydropower and ocean energy, and we supported coalition letters.

Subsequently, the House and Senate restored funding for geothermal energy and hydropower. The final appropriations included \$20.0 million for geothermal technology (a four-fold increase over the \$5.0 million enacted in FY 2007) and \$10.0 million for water power energy R&D (double the \$0.5 million enacted in 2006), merging ocean and wave programs with hydropower into a new "water power" program.

Climate Legislation

Numerous bills related to climate change were introduced in the 110th Congress including legislative proposals from Senators Lieberman and Warner as well as Senators Bingaman and Specter. Chairman Dingell announced draft proposals on carbon tax legislation and issued a white paper on cap-and-trade. EESI forcefully conveyed to Members of Congress and others the significant developments in climate science, RE/EE technologies and policy that had occurred through our highly regarded weekly *Climate Change News*, our briefings and our many meetings with policymakers, coalition partners and a host of stakeholders. We work independently and with coalition partners to raise awareness of the real, immediate, and cost-effective benefits EE/RE technologies and policy can bring to reducing greenhouse gas emissions as well as addressing energy security, energy price spikes, public health, the trade deficit and a host of related issues.

"Your input on efficiency measures and tax issues helped make these parts of the bill more comprehensive and positive."

For example, EESI worked with the Center for Small Business and the Environment (CSBE) on the role of small business in passing CA AB 32, California's precedent-setting climate change legislation. After a briefing last year, EESI and CSBE conferred with House and Senate Small Business Committee staff on the interrelationship of climate change, energy, and small business. These discussions led to committee hearings and legislative proposals, including bills addressing workforce education, small business investment and the incorporation of small business considerations into both the House and Senate energy bills and the farm bill.

EESI and CSBE are now focusing attention on the hundreds of existing small-scale solutions to global warming – that are successful, profitable and replicable – “silver buckshot.”

Tax Credits

The renewable energy production and investment tax credits were due to expire January 1, 2008, (short term and unpredictable credits undermine business investment). Extending these credits was a high priority and part of most of our discussions and conference presentations. EESI worked with Members of Congress and our coalition partners to extend Renewable Production and Investment Tax Credits, the Clean Renewable Energy Bonds, as well as the efficiency tax credits in the Energy Policy Act of 2005. These credits were in the Senate and House tax packages, but were cut in the final compromise bill. While a one-year extension for the production tax credit (PTC), investment tax credit (ITC), and clean renewable energy bonds (CREBS) was passed (now set to expire January 1, 2009), such a short extension is insufficient to create critical market certainty for investors. We still have a long way to go.

Throughout the year, EESI responded to requests from numerous Congressional offices for ideas, background information and technical assistance on their various bills.

Outreach/Collaboration

Sustainable Energy Coalition (SEC)

EESI was a founder of the SEC and serves on its Steering Committee. Much of our energy policy development work is done with SEC members. We believe that coalitions are necessary to develop and move sound policy initiatives.

EESI also served on the Planning Committee for the Tenth Annual SEC/Congressional Renewable Energy and Energy Efficiency Technology Expo and Policy Forum, an all-day event held in the Cannon Caucus Room on June 14, 2007. As in past years, EESI organized policy forums, with panels on economic development, energy security, supply growth, and climate change. We also coordinated a series of “Dear Colleague” letters regarding the various technologies and their connections to national issues and concerns, including jobs, competitiveness, energy security and climate change.

Education

Briefings

The Energy and Climate program held 24 briefings in 2007. This included organizing a Congressional staff-only film

presentation and discussion of “An Inconvenient Truth.” A full list of EESI’s briefings are listed starting on page 8.

“I’m sure you guys know this based on the turn out at your events, but EESI does an outstanding job bringing experts into the Congress. Please keep up the good work.”

Climate Change News

The distribution of *Climate Change News* continues to grow, reaching more than 2,000 subscribers, including every Congressional office, at the end of 2007. This weekly update reports news about climate change, whether it is scientific literature, governmental or private sector actions, or conferences. *Climate Change News* receives excellent reviews from our Capitol Hill audience and is a useful way to keep policymakers informed on a regular basis and to provide a real sense of momentum on the issue.

Other Publications

- Climate Fact Sheet: *Recent Polling on Public Perceptions of Climate Change, April 2006-2007*
- *Annotated climate bibliography*
- *FY 08 DOE Energy Efficiency/Renewable Energy Budget Highlights (2/6/07)*
- *FY 08 EPA Budget Highlights (2/6/07)*
- *FY 08 House Appropriations for Energy Efficiency/Renewable Energy (6/29/07)*
- Issue Update: *FY 08 Appropriations for Renewable Energy and Energy Efficiency: House and Senate Vote for Increase in Energy Efficiency/Renewable Energy (7/19/07)*

Presentations

To spread our message, EESI staff spoke at many different venues and events. For example, Carol attended small dinners with Swedish, Norwegian, and Finnish foreign ministers, ambassadors and senior embassy officials. Carol has been a participant in a series of climate summits such as a University of Michigan climate summit and was on a panel organized by Rosina Bierbaum May 8-10.

Sustainable Biomass and Energy Program

EESI's strategy is to have sustainably produced biomass-to-energy technologies such as biofuels and biopower, substantively and politically, become a critical part of a climate change mitigation strategy by integrating it into our energy/agriculture/forestry portfolios.

EESI actively educated and built a broad network of stakeholders to capitalize on these legislative options.

- Implement and reauthorize the Farm Bill's Energy Title,
- Implement the national Renewable Fuels Standard,
- Implement cellulosic ethanol and other biomass technology programs in Energy Policy Act of 2005, and
- Expand research and development for biomass technologies and feedstock diversification.

Policy

Budget and Appropriations

Each year, EESI staff review and analyze the President's proposed budget when it is released in February. The Administration's FY08 proposed budget zeroed out the Biomass Research and Development Act of 2000 (Sec. 9008 of the Farm Bill Energy Title) and proposed funding several important programs well below their authorized levels. EESI produced and distributed an easy-to-understand analysis of the proposed budget and its impact on a range of bioenergy programs. Throughout the budget and appropriations process, EESI informed and engaged individuals, organizations, and Members of Congress in funding for bioenergy programs. EESI's coverage provided our network with opportunities to respond and identified EESI as a resource for information.

We scored a victory when DOE announced six awards for up to \$385 million for the Integrated Biorefinery Demonstration Projects (Sec. 932(d)) in the Energy Policy Act of 2007 - more than twice the original authorized amount.

Furthermore, DOE announced that it will provide up to \$200 million for 5 years to support the development of small-scale US cellulosic biorefineries, critical for companies with new technologies that require demonstration.

Reauthorization of the 2002 Farm Bill

The Farm Bill reauthorization process was a major focus of EESI in 2007, including the May release of our updated

Farm Bill policy whitepaper, *The 2007 Farm Bill: Policy Recommendations for Integrated Renewable Energy Production*, requested by Sen. Lugar's staff (R-IN). This white paper helped EESI shape the direction and nature of the policy debate. Throughout the reauthorization process, we held numerous meetings with staff in the Senate and the House, responded to inquiries, provided advice to the staff of the Senate and House Agriculture Chairmen, and tracked the energy titles in the bills as they made their way through Congress. Although the new farm bill did not move forward in 2007, we experienced a significant achievement in that a number of program ideas from EESI's white paper were included in Senate and/or House proposals.

“EESI stands ‘heads above all!’ And this is a direct result of your understanding of the issues and fearlessness in addressing those issues publicly.”

Renewable Fuels, Consumer Protection, and Energy Efficiency Act of 2007

The major new Renewable Fuel Standard (RFS) calls for 36 billion gallons of renewable fuels by 2022 with a carve-out for 21 billion gallons of advanced fuels (any feedstock but corn) and includes several environmental protections. The bill also calls for a number of new studies on the impact that this increase in renewable fuels will have on the environment and the economy as well as additional research funds and infrastructure grants for biofuels.

We tackled the need for a change in DOE's administration of the loan guarantee program. DOE was utilizing the 80 percent loan guarantee language in EPAct's Title 17, which is best suited for technologies like nuclear and coal (established), rather than the 100 percent loan guarantee language in Title 15, needed by new technologies, (e.g., cellulosic ethanol). EESI worked with the cellulosic industry on a Congressional letter to identify and correct the problem, which was in the Senate-passed energy bill.

EESI began a **Woody Biomass Initiative** to explore and develop woody biomass from forestry operations and industrial residues as an emerging energy feedstock. In addition to being a good source of clean domestic energy, increasing the use of low-quality woody biomass will help manage and restore forests in a sustainable manner and reduce the risk of wildfires, while helping to revitalize rural economies in forest dependent communities.

Our goal is to accelerate development of a sustainable wood-based energy industry. EESI brought together a diverse group of foresters, academics, NGOs, and civic officials, as well as those involved in the production of wood-based energy products. The series of discussions on the future of wood-based energy and sustainable forest management, explored the obstacles and opportunities represented by wood-based bioenergy and elicited critical research needs and policy suggestions. Ultimately, EESI will educate Members of Congress through a series of Congressional briefings.

Outreach/Collaboration

EESI continues to be a ‘go-to’ resource for information on current federal legislation related to biomass. In recent months, new international stakeholders (Brazil, Sweden, Indonesia, India and Argentina) have begun talking with EESI about the rapidly changing policy landscape. We also have supplied nonprofits, investment banks, private companies, and of course, numerous Senate and House offices with biomass-related background research and information. For example, a Forest Service Biological Scientist called us looking for information on bioenergy projects and contacts in the bioenergy field. A few months after we helped him, he sent us a press release on the transition of a 1950’s coal-powered steam plant to a biomass boiler at the Savannah River Site.

In 2007, EESI concluded work on two projects we conducted in collaboration with North Carolina Solar Center and the New Uses Council. The **Workable Incentive Systems for Biobased Products, Biofuels and Biopower** provided a framework that combines state level biofuel, biopower and bioproduct policies with complementary policies to help accelerate a bioeconomy. EESI also concluded a **Biobased Product Procurement Toolkit** project, designed to help people purchase biobased products

Media

A wide range of media recognize our expertise on energy policy and renewable energy technologies. Journalists from across the country including *BioDimensions Chemistry and Industry* (London) and PBS Frontline have interviewed EESI about a wide range of biomass issues. EESI’s Jetta Wong serves as RenewableEnergyAccess.com’s biomass expert for its “Ask the Experts” column.

Presentations

In 2007, EESI gave 19 presentations about agriculture and energy issues at meetings around the country and world. Of particular note are two international presentations made by

EESI staff. In August, Carol spoke in Brazil, at a Pace University-sponsored conference on *Biofuels and the Promise for Sustainable Energy*. Carol addressed how biofuels represent an important piece of a ‘sustainable’ strategy that works in tandem with other policies to address the challenges of climate change and oil security – but are not a silver bullet. In December, Jetta spoke in Berlin, Germany, at the *Agrofuels: Opportunity or Danger? A Global Dialogue on US and EU Agrofuels and Agriculture Policies and their Impacts on Rural Development in North and South* Conference sponsored by the Institute for Agriculture and Trade Policy, German Watch and the Heinrich Boell Foundation .

Education

Briefings

EESI utilized Congressional briefings to bring policy options before Congressional offices. For example, EESI organized *Harvesting the Farm Bill for Energy Security and Climate* in conjunction with the 2020 Vision Education Fund. This staff-only briefing showed Congressional staff how American agriculture can be a major force in promoting renewable energy and weaning us off fossil fuels. A complete briefing list can be found on page 8.

BCO

The e-newsletter *BCO: Bioenergy, Climate Protection, Oil Reduction* subscriber list grew substantially and at the end of 2007 included almost 2,000 readers worldwide. EESI increased the number of issues from bi-monthly to eight issues per year and changed the format of BCO, giving it a

“wow...the new design looks great. getting high marks from all. three cheers!!!”

fresh new look and making it easier for readers to use.

Other Publications

On more than 25 occasions, we distributed information on funding opportunities, appropriations, legislation and other biomass-related items of interest to the **3,161** individuals in EESI’s Sustainable Biomass and Energy Network. Educating stakeholders on the opportunities and benefits of agriculture-based renewable energy production (biofuels, biomass, wind, solar, etc.) is an integral part of EESI’s mission.

Transportation and Energy Program

This year, our transportation program increasingly focused on ways to speed the incorporation of plug-in hybrid vehicles into the US automobile market. Our newly redesigned and expanded transportation newsletter, *Clean Motion*, made its debut in January 2007. Additionally, our Sustainable Communities Program merged with Transportation to create the Transportation and Energy Program.

Policy

Plug-in Hybrid Vehicles

EESI focused much of our 2007 transportation work on moving flex-fuel plug-in hybrid technology forward as a component of major energy legislation and appropriations bills. EESI has been a successful leading partner in the Plug-in Partners Campaign led by Austin Energy to convince automakers that there is a viable market for flex-fuel, plug-in hybrid vehicles. EESI focused on showing Congressional offices how plug-in hybrid vehicles (PHEVs) could revolutionize the transportation sector and suggested policy options to help bring them to market. By the end of the year, several automakers had declared their intention to produce plug-in hybrid electric vehicles in the next few years.

EESI worked with Members of Congress and other policymakers on a number of plug-in policies and incentives ranging from local government demonstration programs to R&D investments for battery storage improvements. We were happy to see that the final energy bill authorized several key provisions to promote electric-drive vehicles, although it omitted an important tax package. We helped draft a multi-stakeholder sign-on letter to all members of the House and Senate in support of these tax incentives. EESI has been working with a coalition of utility, automakers and vehicle technology interests to re-introduce a tax incentives package for electric vehicles in Congress next year.

Flex-fuel Vehicles

EESI advocated policies to encourage automakers to optimize the use of ethanol in flexible fuel vehicles. All cars, including flexible fuel cars, are optimized for the use of gasoline. Due to lower energy content, use of E-85 (85 percent ethanol and 15 percent gasoline) in these vehicles results in decreased mileage per gallon. Optimizing these vehicles for the use of ethanol would reduce this energy penalty for those using E-85. It is, after all, the ability to

reduce oil consumption through the use of biofuels that allow automakers to receive CAFÉ (Corporate Average Fuel Economy) standards credit for the production of flex-fuel vehicles. The idea gained traction with some provisions to conduct research.

Education

Briefings

EESI organized a number of transportation and sustainable communities briefings and events in 2007. For example, our Congressional event to commemorate the first anniversary of the launch of the National Plug-in Partners Campaign attracted more than 90 people. Speakers included Rep. Inslee (D-WA), Austin Mayor Will Winn, and Sen. Hatch (R-UT), who announced that he was working with Senators Obama and Cantwell to develop bipartisan legislation to advance plug-in hybrid vehicles. A full list of our briefings can be found on page 8.

"I find the information you folks provide very valuable. This is a wonderful service that you are offering. Thanks again. I forward your EESI newsletter to many key people across the region. It is an excellent resource."

Clean Motion

Our newly redesigned *Clean Motion* transportation e-newsletter focused on policy updates, technology developments, success stories, grant announcements, and other information relevant to deploying cleaner transportation technologies such as hybrids, plug-in hybrids and flex-fuel vehicles. Our subscriber base grew to more than 1,400 readers worldwide.

Other Publications

- [FY 08 Transportation Budget Highlights](#), February 2007
- [Senate Energy Bill Important Step But Mores Urgently Needed](#), December 2007
- [Hybrid Buses: Costs and Benefits](#) factsheet, March 2007
- [EESI and National Plug-In Partners Comments on DOE Draft Plug-In R&D Plan](#)
- [Transportation Policy Options Report](#)

Presentations

EESI continued to serve as an information resource on issues of energy, fuels and climate change. In addition to



the Scoping Symposium and Partner Dialogue mentioned above, EESI made presentations at two American Planning Association national meetings, the Clean Cities Coalitions' Transportation Energy Independence Days meeting, and the Sacramento Region Clean Energy Showcase.

Outreach/Collaboration

EESI began in earnest its exciting three year project *Planning Our Way to a New Energy Future*, in partnership with the American Planning Association (APA) to help planners better understand the connections between energy and planning and integrate these principles into their work. The project held a "Scoping Symposium" in Chicago on March 1-2, where a small, select group of national planning and energy experts provided direction for the project. A second national survey (to follow-up an initial survey conducted in 2005) was launched to assess planners' capacity, knowledge and educational needs concerning the integration of energy and climate issues with community planning. Our Partner Dialogue meeting, held June 2007 in Washington, DC, helped inform a diverse group of 50-60 attendees about the wide range of activities attendees were undertaking to address climate and energy and encouraged collaboration between partners. This partnership continues to build relationships with organizations and individuals working on these issues.

10 Big Picture Points Gleaned from the 2005 and 2007 Survey of Planners

1. Awareness of energy issues is increasing among planners.
2. More planners have primary responsibility in their jurisdictions for developing energy plans and policies.
3. More communities have or developing energy policy statements or plans.
4. Climate change has become the top motivator for communities to address energy concerns, and citizen interest continues to be a major factor.
5. The biggest obstacles to moving forward on energy planning actions continue to be a lack of political interest and the complexity of the issue.
6. Reducing demand through energy efficiency is the most common tool that communities plan to use in addressing energy issues.
7. Planners know more about alternative energy topics and technologies than they did in 2005, but additional education is needed.
8. A growing number of communities are seeking out energy technology businesses as part of their economic development strategy.

9. Most communities have not yet integrated energy concerns into their zoning ordinances and development review procedures.

10. Most communities do not yet offer incentives for energy efficient, green development, and most planners are not familiar with private market incentives for green building.

Utah Clean Cities Coalition

This year saw a continuation of our joint, two-year project with Utah Clean Cities and the Utah-based National Energy Foundation to develop a school bus idle reduction program under a contract with DOE. After extensive research on anti-idling materials and resources, an idle reduction focus group was held January 30 to gather ideas and perspectives from 20 stakeholders, including state directors of public transportation, fleet managers, bus drivers, students, and engine manufacturers. The partnership developed a training program for school bus drivers to be pilot tested in several school districts in 2008. Results will be documented, including gallons of fuel saved, reduced emissions and project experiences, which then will be compiled to share with other school districts across the country.

To travel 5 miles, the comparison is (for gas and mega-joules):

- A typical gasoline car (Camry as proxy) – 27 mpg or 29.4 mega-joules (MJ)
- A hybrid car (Prius) – 55 mpg or 14.3 MJ
- An electric car (Tesla roadster) – 135 mpg equivalent or 7.09 MJ
- A bicycle – no gasoline or 0.97 MJ (human energy)

Media

In addition to providing background for several articles, EESI briefings were covered by *The New York Times*, *Providence Journal*, *Business Week*, *US News & World Report*, *Congress Now*, *EarthdayTV*, *RAIN media*, *BNA*, *Point Carbon*, *Energy Washington*, *E&E publishing/Greenwire ARGUS Media*, *Jiji Press*, *Platts*, *Mitsui USA*, *San Jose Mercury News*, *Restructuring Today*, and *Inside Energy*, among others. Of particular note, EESI staff helped *Newsweek* magazine with an article on "clean" transportation, to show readers a comparison of energy used by various forms of transportation. In response to our help, the *Newsweek* staffer said, "Wow! [T]his is brilliant!"

EESI Congressional Briefings

EESI's Congressional briefing schedule for 2007 was rigorous; we organized a **record-breaking 35 briefings!** We had great attendance at all of our briefings, averaging over 100 attendees each, exhibiting the strength of interest in our issues on the Hill and among other organizations, businesses, and media sources. In fact, many of our briefings were standing-room-only, at times forcing us to turn people away at the door. Our briefing attendees included more than 700 Hill staffers, representing more than 220 different Congressional offices and Committees. CSPAN broadcast our briefing, *Climate Change: What Americans Think*, and an ever increasing number of website and blogs list and review our briefings for their readers. In our efforts to provide high quality, easy-to-access information to a broad audience, we now post free audio recordings of almost all of our briefings on our website.

Public Transportation and the Reduction of U.S. Petroleum Consumption – January 9

- **William W. Millar**, President, American Public Transportation Association
- **Linda Bailey**, Senior Associate, ICF International
- **Deron Lovaas**, Vehicles Campaign Director, Natural Resources Defense Council

National Plug-In Partners Anniversary Celebration – January 23

- **Mayor Will Wynn**, City of Austin
- **Rep. Jay Inslee (D-WA)**
- **Sen. Orrin Hatch (R-UT)**
- **Mike Jackson**, CEO, Auto Nation
- **Jon Wellinghoff**, Commissioner, Federal Energy Regulatory Commission
- **Ed Kjaer**, Director of Electric Transportation, Southern California Edison
- **Melissa Lavinson**, Director of Federal Environmental Affairs and Corporate Responsibility, Pacific Gas & Electric
- **Tim Dummer**, Global Director New Markets, GE Industrial Automotive

Reducing Greenhouses Gases from Transportation: California Strategies under AB 32, the Global Warming Solutions Act – January 24

- **Alex Farrell**, Director of the Transportation Sustainability Research Center, University of California, Berkeley
- **Dan Sperling**, Director of the Institute of Transportation Studies, University of California, Davis
- **Roland Hwang**, Vehicles Policy Director, Natural Resources Defense Council

Cellulosic Ethanol: Not Just *Any* Liquid Fuel – February 12

- **Tracy Nagelbush**, Senior Policy Advisor, Rep. Inslee (D-WA) (House briefing only)

- **Eric Spomer**, President and CEO, Catalyst Renewables Corporation



- **Mike Muston**, Executive Vice President of Corporate Development, Broin Companies
- **Gerson Santos**, Research and Development Director, Abengoa Bioenergy
- **Michael Parr**, Senior Manager, Government Affairs, Dupont

State Energy and Low-Income Energy Programs presented in conjunction with the Northeast-Midwest Senate Coalition, Northeast-Midwest House Coalition, and the Renewable Energy and the Energy Efficiency Caucus – February 13

- **Moderator: Ari Strauss**, Legislative Director, Northeast-Midwest Senate Coalition
- **William E. (Dub) Taylor**, Director, Texas State Energy Conservation Office and Vice-Chair, National Association of State Energy Officials
- **Vaughn Clark**, Director, Oklahoma Office of Community Development and Chair, National Association for State Community Services Programs
- **Jo-Ann Choate**, Maine State LIHEAP Director and Chair, National Energy Assistance Directors Association

An Inconvenient Truth: Film Presentation and Discussion – February 16

- **Dr. Michael MacCracken**, Chief Scientist for Climate Change Programs, Climate Institute, Washington DC, fellow of the American Association for the Advancement of Science and member, EESI Advisory Board

Biofuels: From Basics to Barriers – February 26

- **Dr. Jason Hill**: Research Associate with the Department of Applied Economics and Department of Ecology, Evolution and Behavior at the University of Minnesota, Twin Cities
- **Steve Griffen**: Board member of the New York Farm Viability Institute
- **Samantha Slater**, Director of Congressional & Regulatory Affairs, Renewable Fuels Association
- **Jill Euken**: Industrial Specialist, Biobased Products, Iowa State University (ISU) Extension/CIRAS; Assistant Director, Office of Biorenewables Programs, ISU
- **David Bransby**: Professor of Energy Crops and Bioenergy in the Department of Agronomy and Soils at Auburn University

Geothermal Energy: Latest Developments for this “Hot” Contributor to U.S. Energy Production – March 1

- **Bernie Karl**, Owner and Renewable Energy Advocate, Chena Hot Springs Resort, Alaska
- **Karl Gawell**, Geothermal Energy Association (GEA), Washington D.C.
- **Jeff Tester**, Professor, Massachusetts Institute of Technology (MIT), Massachusetts, and Chair of MIT assessment report: “The Future of Geothermal Energy”
- **Roy Mink**, U.S. Geothermal, Idaho and former DOE Geothermal Program Director
- **Paul Thomsen**, Manager of Public Policy, Ormat

Bioenergy in the Farm Bill: Policy Options for Conservation – March 8

- **Brendan Jordan**, Biomass Program Manager at the Great Plains Institute
- **Loni Kemp**, Senior Policy Analyst at The Minnesota Project
- **Julie Sibbing**, Senior Program Manager for Agriculture and Wetlands Policy at the National Wildlife Federation

Climate Policy: Carbon Taxes, Carbon Cap-and-Trade, and R&D as Means of Reducing CO2 Emissions – March 14

- **Dr. Terry Dinan**, Senior Analyst, Congressional Budget Office
- **Dr. James Barrett**, Executive Director, Redefining Progress
- **Charles Komanoff**, Co-Founder, Carbon Tax Center

Biofuels and Tortillas: A US-Mexican Tale of Chances and Challenges – March 16

- **Victor Quintana**, Professor of Social Communication at the Autonomous University of the City of Juárez-Chihuahua and advisor to Peasants’ Democratic Front of Chihuahua
- **Alexandra Spieldoch**, Institute for Agriculture and Trade Policy
- **Barbara Bramble**, National Wildlife Federation
- **Daniel De La Torre Ugarte**, University of Tennessee Agricultural Policy Analysis Center

Energy Efficiency and Renewable Energy: FY 2008 Budget Review – March 22

- **Scott Sklar**, President, The Stella Group, and Chair, Sustainable Energy Coalition Steering Committee
- **Bill Prindle**, Deputy Director, American Council for an Energy Efficient Economy (ACEEE)
- **Peter Smith**, Chairman, National Association of State Energy Officials (NASEO) and President, New York State Energy Research and Development Authority (NYSERDA)

Distributed Generation-- Policy Options for an Energy Bill, presented in conjunction with The Northeast-Midwest Institute and the Distributed Energy Caucus – March 27

- **Reps. Lee Terry** (R-NE) and **Mike Doyle** (D-PA) Co-chair, Distributed Energy Caucus
- **Robert Roche** - Product Manager, Stationary Fuel Cells, UTC Power
- **Thad Ewald** - Executive Director, Power Electronics and Global SCM, Cummins, Inc.
- **Dick Munson** - Senior Vice President, Recycled Energy Development

Findings from the IPCC Working Group II Report: Climate Change Impacts, Adaptation and Vulnerability – April 18

- **Dr. Cynthia Rosenzweig**, Research Scientist, NASA Goddard Institute for Space Studies
- **Dr. Terry Root**, Senior Fellow, Center for Environmental Science and Policy, Stanford University
- **Dr. Roger Pulwarty**, Physical Scientist, NOAA/Office of Oceanic and Atmospheric Research
- **Dr. Anthony Janetos**, Director, Joint Global Change Research Institute



Climate Change: What Americans Think – May 4

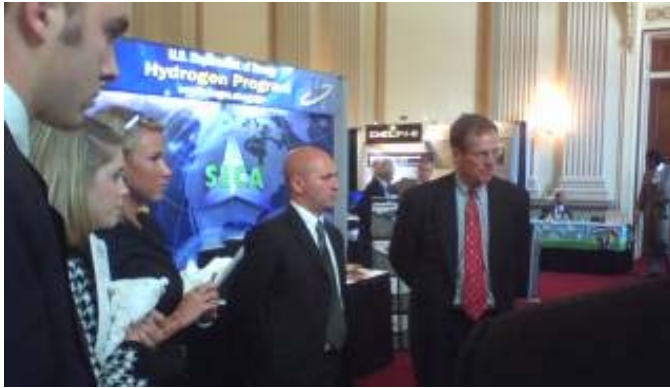
- **Dr. Jon A. Krosnick**, the Frederic O. Glover Professor in Humanities and Social Sciences and professor of communication, political science, and psychology at Stanford University.

How Does Transportation Fit into Cap and Trade? presented by 2020 Vision Education Fund in conjunction with the Environmental and Energy Study Institute and the offices of Senator Richard Lugar (R-IN) and Senator Joe Biden (D-DE) – May 11

- The Honorable **Dave McCurdy**, President, Auto Alliance
- **John German**, Manager, Environment and Energy Analyses, American Honda Motor Co., Inc.
- **Daniel Lashof**, Deputy Director, Climate Center, Natural Resources Defense Council
- **Drew Kodjak**, Executive Director, International Council on Clean Transportation
- Moderated by Tom Z. Collina, Exec. Dir., 2020 Vision Education Fund

Cap and Trade: It's Time to Start Digging into the Details presented by *The Center for Clean Air Policy* – May 14

- **Ned Helme**, President, CCAP
- **Marty Spitzer**, Director, Domestic Programs, CCAP
- Managers of CCAP's domestic and international programs



Congressional Fuel Cell Expo 2007--Fuel Cells: Powering the Present...Securing the Future, presented in conjunction with the *US Fuel Cell Council* – May 15

High-Performance Green Buildings: A Look at Their Benefits and the Role of Federal Policy – May 21

- **Robert F. Fox, Jr., AIA** – Partner, Cook + Fox Architects LLP, designer of the new Bank of America Tower at One Bryant Park, New York City
- **Mike Saxenian** – Sidwell Friends School - the first LEED Platinum-certified K-12 school in the world
- **Rick Fedrizzi** - President, CEO & Founding Chairman – U.S. Green Building Council

World Environment Day 2007: Melting Ice - A Hot Topic? Presented in conjunction with the *Royal Norwegian Embassy* – June 5

- **Terry D. Garcia**, Executive Vice President, National Geographic Society
- **H.E. Knut Vollebaek**, Ambassador of Norway
- **Bill Mansfield**, Senior Advisor to the Executive Director, UNEP: Visual Evidence of Global Climate and Ecosystem Change
- **Liv Arnesen**, Polar Explorer: Exploring the impacts on the Arctic environment
- **Will Steger**, Polar Explorer: Report from his latest expedition, Global Warming 101
- **Dennis Dimick**, Executive Editor National Geographic Magazine: "The Big Thaw - Ice on the Run, Seas on the Rise".
- **Erik Assadourian**, World Watch Institute: "Moving beyond the consumer society"
- Moderator: **Juliet Eilperin**, Washington Post Staff Writer
- **Bill Wehrum**, Acting Asst. Administrator for Air and Radiation, EPA

- **Lasse Nord**, Norwegian Commission on Low Emissions: "How Norway can reduce its emissions by 50-80% by 2050"
- **Silje Schei Tveitdal**, Political Advisor on Energy and Environment; Norwegian Parliament: "From oil economy to renewable energies"
- **William Christensen**, Norwegian Ministry of Energy
- **Svend Soeyland, Bellona**: "CO2 sequestration - bridging technology towards a renewable future".
- **Arve Thorvik**, Vice President, EU Affairs, STATOIL: "Carbon Capture and Storage. Industrial solutions in the making"
- **Alden Meyer**, Director of Strategy Policy, Union of Concerned Scientists: "Technological solutions to global warming"
- **Scott Sklar**, President, Stella Group: Market Trends for Renewable distributed Generation and Smart Grids
- **Peter Repinski**, UNEP: Energy efficiency: Green buildings
- Moderator: **Dr. Joseph Romm**, Center for Energy and Climate Solutions: The Low Carbon Car of the Future

The Low Carbon Fuel Standard: A Climate Policy Solution for Transportation – June 5

- **Rep. Jay Inslee** (D-WA)
- **Alex Farrell**, UC Berkeley Professor and Co-Director of Report "A Low-Carbon Fuel Standard for California"
- **Roland Hwang**, Policy Director, Natural Resources Defense Council
- **Michael Goo**, Majority Counsel, US Senate Environment and Public Works Committee
- **Eric Swedlund**, Deputy Director, Office of Governor Arnold Schwarzenegger
- **Ralph Moran**, Director of West Coast Climate Change Issues, BP America



The Role of Advanced Hydropower and Ocean Energy in Upcoming Energy Legislation – June 8

- **Doug Dixon**, Hydropower Program Technical Lead and author of "Assessment of Waterpower Potential and Development Needs", Electric Power Research Institute (EPRI)
- **George Hagerman**, Senior Research Associate, Center for Energy and the Global Environment, Virginia Tech
- **Wayne Krouse**, President & CEO, Hydro Green Energy
- **Steve Brown**, Director of Natural Resources, Grant County Public Utility District
- **Jeffrey Leahey, Esq.**, Senior Manager of Government and Legal Affairs, National Hydropower Association

The 10th Annual Renewable Energy & Energy Efficiency Expo and Forum presented by the House and Senate Renewable Energy & Energy Efficiency Caucuses in cooperation with the Sustainable Energy Coalition – June 14

- **Dr. John Holdren**, Teresa and John Heinz Professor of Environmental Policy, Harvard University; Director, Woods Hole Research Center; President, AAAS (2006-2007)
- **Scott Sklar**, Chair, Sustainable Energy Coalition Steering Committee; President, Stella Group, Ltd.
- **Carol Werner**, Exec. Director, Environmental and Energy Study Institute, SEC Steering Committee
- **Dr. Wolfram Krewitt**, DLR German Aerospace Cntr, Stuttgart, Germany
- **David Hamilton**, Director of Global Warming and Energy Programs, Sierra Club
- **Mark Wagner**, Vice President Government Relations, Renewable Energy Solutions, Johnson Controls Inc.
- **Brandon Seitz**, Biotown, USA, Manager of Energy Division, Indiana Office of Energy and Defense Development
- **R. James Woolsey**, former Director of Central Intelligence; Vice President, Global Strategic Security Division, Booz Allen Hamilton, Inc.
- **Kevin Rackstraw**, Development Leader, Eastern North America, Clipper Windpower Development Company, Inc.
- **Lisa Krueger**, Vice President, Sustainable Development, First Solar Inc.
- **Jonathan Weisgall**, Vice President, MidAmerican Energy Holdings Corp, CalEnergy (*Geothermal*)
- **Julie Smith Galvin**, Director, Corporate Affairs, Enel North America, Inc. (*Hydropower*)
- **Dick Munson**, Vice President for Government Affairs, Recycled Energy Development (*Energy Efficiency*)
- **Gordon Davidson**, Washington Office of BRI Energy (*Biofuels*)
- **Rep. Greg Walden (R-OR)**
- **Rep. Roscoe Bartlett (R-MD)**
- **Mayor John Hieftje**, Ann Arbor, Michigan, issued Green Energy Challenge (2005) to bring 30% renewable energy to Ann Arbor by 2010

Harvesting the Farm Bill for Energy Security and Climate presented in cooperation with the 2020 Vision Education Fund and the offices of Sen. Richard Lugar (R-IN) and Sen. Joe Biden (D-DE) – June 15

- **Eldon Boes**, Senate Agriculture Committee
- **Dr. Elizabeth Marshall**, World Resources Institute
- **Howard Learner**, Director, Environmental Law and Policy Center
- **Scott Faber**, Water Resources Specialist, Environmental Defense
- **Tom Z. Collina**, Exec. Director, 2020 Vision Education Fund (Moderator)

Can a National Renewable Portfolio Standard Increase Energy Security, Reduce Emissions and Lower Costs? – July 11

- **Leon Lowery**, Majority Staff, Senate Committee on Energy and Natural Resources

- **Chris Namovicz**, Operations Research Analyst, Energy Information Administration
- **Marilyn Brown**, Professor of Energy Policy, GA Institute of Technology and Visiting Distinguished Scientist, Oak Ridge National Laboratory
- **Richard Glick**, Director, Government Affairs, PPM Energy

2nd Annual National Summit on Energy Security sponsored by 2020 Vision Education Fund and CNA Corp. with support from EESI and others – July 12

Why is Concentrating Solar Power Good for America? – September 6

- **Dr. Fred Morse**, Senior Adviser, US Operations, Abengoa Solar, Inc.
- **Kate Maracas**, Managing Director, Energy Resources, Inc.
- **Barbara Lockwood, P.E.**, Manager, Renewable Energy, Arizona Public Service Company
- **Joshua Bar-Lev**, Vice President., Regulatory Affairs, Bright Source Energy

The Clean Water Act turns 35! The Next 35 Years of Clean Water: What will the Future Hold? Presented in cooperation with the Water Environment Federation – September 19

- **LaJuana Wilcher**, former EPA Assistant Administrator for Water; former Secretary, Kentucky Environmental and Public Protection Cabinet; Partner, English, Lucas, Priest & Owsley, LLP (*moderator*)
- **Rep. James L. Oberstar (D-MN)**, Chairman, House Transportation and Infrastructure Committee
- **James Connolly**, Executive Director, Anacostia Watershed Society
- **Andrew Fahlund**, Vice President for Conservation, American Rivers
- **Marian Orfeo**, Director of Planning and Coordination, Massachusetts Water Resource Authority
- **Kenneth Reckhow**, Professor and Chair of Environmental Sciences and Policy, Nicholas School of Environment and Earth Sciences, Duke Univ.
- **Richard Schwer**, Senior Consultant, Environmental Engineering, DuPont Company
- **Alan Vicory**, Executive Director and Chief Engineer, Ohio River Valley Water Sanitation Commission

Ecosystem Thresholds and Climate Tipping Points: Implications for Policymakers – September 20

- **Dr. Anthony Janetos (Moderator)**, Director, Joint Global Change Research Institute, Pacific Northwest National Laboratory/University of Maryland
- **Dr. Ed Miles**, Virginia and Prentice Bloedel Professor of Marine Studies and Public Affairs, University of Washington
- **Dr. Neil Cobb**, Director, Merriam-Powell Center for Environmental Research, Northern Arizona University
- **Dr. Mark Eakin**, Coordinator, NOAA Coral Reef Watch, National Oceanic and Atmospheric Administration
- **Dr. John Wiens**, Lead Scientist, The Nature Conservancy
- **Michael Bradley**, Canfor Pulp Limited Partnership

What Does the Stern Review Mean for the UN Climate Change Meeting in Bali? – September 21

- **Sir Nicholas Stern**, Professor of Economics, London School of Economics Asia Research Centre and author of the “Stern Review on the Economics of Climate Change”

National and International Perspectives on Energy and Climate Policy: A Roundtable Discussion – September 25

- **James Cameron**, Founder, Climate Change Capital; Treasurer, REEEP; Founding Associate, REIL (*Moderator*)
- **Rep. Tom Udall** (D-NM)
- **Rep. Jay Inslee** (D-WA)
- **Bob Simon**, Chief of Staff, Senate Energy and Natural Resources Committee
- **Sueleen Kelly**, Commissioner, Federal Energy Regulatory Commission
- **Paul Dawson**, Head of Environmental and Regulatory Affairs, Global Commodities, Citi
- **Jim Butcher**, Director, Office of the Environment, Morgan Stanley
- **Henry Derwent**, Director, International Climate Change, U.K. Department of Environment, Food and Rural Affairs; Chair, REEEP Governing Board

The Daily Transit Pass: One of the Most Powerful Weapons to Combat Global Climate Change – September 26

- **Rep. James L. Oberstar**, (D-MN), Chairman, House Transportation and Infrastructure Committee
- **Rep. Peter A. DeFazio**, (D-OR), Chairman, Highways and Transit Subcommittee, House Transportation and Infrastructure Committee
- **William W. Millar**, President, APTA
- **Greg Nickels**, Mayor of Seattle, Chair of the Advisory Board and Co-Chair of the Task Force on Climate Protection, U.S. Conference of Mayors
- **Todd Davis**, Assistant Vice President, Science Applications International Corporation (SAIC)
- **Carol Werner**, Executive Director, Environmental and Energy Study Institute (*Moderator*)

Solar Decathlon Showcases Green Homes for Today: How Energy Bill Provisions Can Support High-Performance Homes – October 17

- **Rhone Resch**, Executive Director, Solar Energy Industries Association
- **Dr. Kaye Brubaker**, Associate Professor, University of Maryland
- **Bill Nesmith**, Assistant Director for Conservation, Oregon Department of Energy
- **Lowell Ungar**, Director of Policy, Alliance to Save Energy

Loan Guarantee Provisions in the 2007 Energy Bills: Does Nuclear Power Pose Significant Taxpayer Risk and Liability? – October 30

- **Peter Bradford**, President, Bradford Brook Associates; former Chair,

New York State Public Service Commission and Maine Public Utilities Commission; and former Commissioner, U.S. Nuclear Regulatory Commission

- **Jerry Taylor**, Senior Fellow, Cato Institute
- **Jim Harding**, CEO, Harding Consulting
- **Susan J. Irving**, Director for Federal Budget Analysis, US Government Accountability Office (GAO)

Opportunities for Bioenergy Production in Every State – October 31

- **Larry Biles**, Executive Director, Southern Forest Research Partnership
- **Robert H. Davis**, President, Forest Energy Corporation/Member, Future Forest, LLC
- **Dr. David Bransby**, Professor of Energy Crops and Bioenergy, Auburn University



- **Robert E. Cleaves**, President, Cleaves and Company/Member, USA Biomass Power Producers Alliance

Can States Meet the Proposed 15% National Renewable Portfolio Standard? – November 1

- **Leon Lowery**, Majority Staff, Senate Committee on Energy and Natural Resources
- **Chris Namovicz**, Operations Research Analyst, Energy Information Administration
- **Dr. Marie Walsh**, Adjunct Associate Professor, Dept. of Agricultural Economics, University of Tennessee
- **Jeff Deyette**, Energy Analyst, Union of Concerned Scientists
- **Bill Prindle**, Deputy Director, American Council for an Energy-Efficient Economy

Green Collar Jobs: Why Renewable Energy and Energy Efficiency are Economic Powerhouses – November 8

- **Sen. Ken Salazar**, (D-CO), Member, Senate Energy and Natural Resources, Agriculture, Nutrition and Forestry, and Finance Committees
- **Brad Collins**, Executive Director, American Solar Energy Society
- **Drew McCracken**, Director, Washington Office of the State of Ohio
- **Roger Bezdek, Ph.D.**, President, Maagement Information Services, Inc.

Environmental and Energy Study Institute

Statement of Financial Position

December 31, 2007

2007

ASSETS

CURRENT ASSETS

Cash	\$ 354,520
Interest receivable	7,955
Grants and contributions receivable	231,267
Prepaid expenses	16,359

TOTAL CURRENT ASSETS 610,101

INVESTMENTS 2,577,089

PROPERTY AND EQUIPMENT, net 9,395

DEPOSITS 16,049

TOTAL ASSETS \$ 3,212,634

LIABILITIES AND NET ASSETS

CURRENT LIABILITIES

Accounts payable and accrued expense	\$ 14,122
Accrued vacations	57,787

TOTAL CURRENT LIABILITIES 71,709

NET ASSETS

Unrestricted	2,659,571
Temporarily restricted	481,354

TOTAL NET ASSETS 3,140,925

TOTAL LIABILITIES AND NET ASSETS \$ 3,212,634

Environmental and Energy Study Institute

Statement of Activities

For the Year Ended December 31, 2007

	Unrestricted	Temporarily Restricted	Total
REVENUE			
Grants and contributions	\$ 587,236	\$ 327,484	\$ 914,720
Earth Share	68,985		68,985
Investment income	140,042		140,042
Net assets released from restrictions	191,520	(191,520)	-0-
TOTAL REVENUE	987,783	135,964	1,123,747
EXPENSES			
Programs			
Transportation/Smart Growth	187,683		187,683
Energy and Climate Change	419,665		419,665
Total Programs	607,348		607,348
General and administrative	100,551		100,551
Development	47,159		47,159
TOTAL EXPENSES	755,058		755,058
CHANGE IN NET ASSETS	232,725	135,964	368,689
NET ASSETS, BEGINNING OF YEAR	2,426,846	345,390	2,772,236
NET ASSETS, END OF YEAR	\$ 2,659,571	\$ 481,354	\$ 3,140,925

Funders

Environmental and Energy Study Institute wishes to thank all those who have made contributions this year. We are extremely grateful for your support. You have helped us build a better world.

Grants and Contracts

American Planning Association (APA) and the Surdna Foundation	National Hydropower Association
Changing Horizons Fund	New York Community Trust
City of Austin, Texas	Oak Foundation
Cornell Douglas Foundation	Ottinger Foundation
Energy Foundation	Salt Lake City Utah Clean Cities
George Gund Foundation	US Fuel Cell Council
Gordon and Betty Moore Foundation	Wallace Genetic Foundation
ICSE	Water Environment Federation

EESI Associates

Benefactors (\$10,000 +)

Austin Energy Services	Dr. John W. Flory Foundation
Dynamotive Energy Systems Corporation	Roger and Vicky Sant
	TAUPO Fund

Patrons (\$5,000-9,999)

The Coca – Cola Company	Ormat Technologies
Horne Family Foundation	The Schmitz-Fromherz Family Fund

Associates (\$1,000-4,999)

ALLETE/Minnesota Power	Cynthia Edstrom
American Council on Renewable Energy	Environmental and Turf Services
Elizabeth Berman	Jeff Genzer
Bob Lawrence & Associates	Geothermal Energy Association
Bogges Family Foundation	John Harris
Jason Brenner	The Henry P. Kendall Foundation
Michele Brandt	Jay Kunwar
Michael Brower	John "Skip" Laitner
Frances S. Buchholzer	National Biodiesel Board
Mortimer Caplin	Richard Ottinger
Classic Accessories	PIMA
C.R. Craig	Solar Energy Industries Association
Mary De Voe	United Nations Foundation

EESI receives donations through Earth Share, a workplace giving federation of the leading environmental and conservation organizations. We also receive many smaller gifts from individuals across the country.

EESI Board of Directors

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Jared Blum, * EESI Secretary/Treasurer, President, Polyisocyanurate Insulation Manufacturers Assoc. (PIMA)

Nancy Bacon, Senior Vice President, Energy Conversion Devices, Inc.

Ambassador Richard E. Benedick, Senior Advisor, Joint Global Change Research Institute, Battelle Pacific Northwest National Laboratory (PNL); former Deputy Assistant Secretary of State for Environment, Health, and Natural Resources

Rosina M. Bierbaum Ph.D., Dean, School of Natural Resources and Environment, University of Michigan; former Acting Director, White House Office of Science and Technology Policy

Quincalee Brown, former Executive Director, Water Environment Federation

Frances S. Buchholzer, former Director, Ohio Department of Natural Resources

Mortimer M. Caplin, Founder and Partner, Caplin and Drysdale; former Commissioner, Internal Revenue Service

Gerald Decker, Chair, Decker Energy International Development, Inc.; Chair, Competitive Power Forum

Roger Duncan, General Manager, Austin Energy Services

Bob Edgar, President and CEO, Common Cause; former General Secretary, National Council of Churches; former Member of Congress (D-PA)

Chris Flavin, President, Worldwatch Institute

Elliott Laws, Crowell and Moring; former President of Safety, Health and Environment for Texaco

Ruth Patrick, Ph.D. Senior Curator, Academy of Natural Sciences of Philadelphia

Christopher Schepis, Legislative Director, Office of Congressman John Barrow (GA 12th)

EESI Staff

Carol Werner, Executive Director

Fred Beck, Senior Policy Associate (Energy & Climate)

Jesse Caputo, Fellow (Sustainable Biomass & Energy)

Ruth Lampi, Director of Development

Leanne Lamusga, Communications Coordinator

Jan Mueller, Policy Analyst (Transportation & Energy)

Deirdre Nicholson, Executive Assistant

Jessica Siegel, Director of Finance and Administration

Jetta Wong, Senior Policy Associate (Sustainable Biomass & Energy)

EESI Board of Advisors

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Glenn Hamer, Arizona Chamber of Commerce and Industry

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John Justus, Ocean Science Specialist

Stephen S. Kalland, North Carolina Solar Center

Mike Lindberg, Fleishman-Hillard

Michael MacCracken, Climate Institute

Joseph Michels, Princeton University

Rhone Resch, Solar Energy Industries Association

Roger Sant, Co-founder and Chairman Emeritus, The AES Corp.

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John Seiberling, former Member of Congress

Beth Shearer, Beth Shearer and Associates, Inc.

Scott Sklar, The Stella Group, Ltd

Paul Thomsen, Ormat Technologies

Scott A. Weiner, New Jersey School's Development Authority

Jon Wellinghoff, Federal Energy Regulatory Commission