

Environmental and Energy Study Institute

Annual Report 2012



*Educating Congress on energy efficiency and renewable energy;
advancing innovative policy solutions*



In 2012, the impacts - and costs - of climate change became ever more visible as the country was buffeted by growing numbers of extreme weather events, ranging from the widespread drought and heat wave, to the massive devastation caused by Superstorm Sandy. Upon his re-election, President Obama made a renewed commitment to tackle climate change. The forceful conclusions of the most recent Intergovernmental Panel on Climate Change (IPCC) should remove any doubt about the human role in causing climate change and should spur urgent action by all of us to reduce greenhouse gas emissions and our consumption of fossil fuels.

Thanks to your support, EESI is able to keep the policy community informed about these problems, and the wide range of smart, cost-effective technology and policy solutions that are available. Frankly, it is very exciting to help tell the compelling stories of state, local, and private sector leaders who are seeking change and implementing solutions - because it makes good sense. Fostering energy efficiency gains and renewable energy use is critical to climate change mitigation, as well as to energy security. We are showcasing solutions such as combined heat and power, distributed generation, and high efficiency buildings that enable our communities across America to become more resilient and secure. Working together we can - and must - transition to a sustainable energy economy. Thank you for all your support as we help make that happen!

Carol Kerner



Environmental and Energy Study Institute
1112 16th Street, NW, Suite 300
Washington, DC 20036-4819

Phone: (202) 628-1400
Fax: (202) 204-5244

www.eesi.org



Subscribe



Give



Front cover photo captions and credits:

- A small-scale hydropower plant on the Lama river (Moscow region, Russia). Credit: Gnilenkov Aleksey
- Wood shavings (biomass). Credit: Sarah Cady
- Inside the Washington, D.C., metro. Credit: Hyku
- Solar panels being installed at the Northern Alberta Institute of Technology (Edmonton, Canada). Credit: NAIT

Back cover photo captions and credits:

- Offshore wind turbines in Scroby Sands (North Sea). Credit: Martin Pettitt
- Men riding a tandem bike. Credit: Richard Masoner / Cyclelicious
- Yellowstone, embodying the power of geothermal energy. Credit: *-Dawn-*

EESI's annual report is available to the public on our website, at www.eesi.org/annual_reports.
 EESI is a non-profit 501(c)(3) organization. Contributions are tax deductible to the fullest extent of the law.
 EIN: 52-1268030



100% recycled paper produced with wind power.

Contents

Top 10 Accomplishments in 2012	2
2013 Sneak Preview	6
Briefings and Events	7
Communications and Publications	8
Financial Overview	9
EESI Donors: Associates	10
Donor Profile: Austin Energy	10
You Can Ensure a Sustainable Future	11
Grantors and Testimonials	11
Board Member Profile: Dr. Rosina Bierbaum	12
EESI Salutes Board Member Bob Edgar, 1943-2013	12
Board of Directors & Advisory Board	13

About EESI

The Environmental and Energy Study Institute is a non-profit organization advancing innovative policy solutions to set us on a cleaner, more secure and sustainable energy path.

Perspective on Climate

- The climate crisis is urgent.
- The solution is achievable.
- U.S. leadership is essential.
- Energy prices must reflect their true costs.
- A healthy climate and a healthy economy go hand-in-hand.

Solutions

- Energy Efficiency
- Renewable Energy
- Sustainable Buildings
- Sustainable Industry
- Sustainable Transportation

Approach

- Policymaker Education
- Coalition Building
- Policy Development

EESI was founded by a bipartisan Congressional caucus in 1984. Its strong relationship with Congress helps EESI serve as a trusted source of credible, non-partisan information on energy and environmental solutions. EESI is an independent not-for-profit organization, supported through grants and contributions from people like you.



3

Delved into the financial "secret sauce" that will foster the transition to clean energy

Clean energy projects, although cheaper to run, often require large up-front investments. Making it easy for such projects to tap into low-cost financing is thus a critical piece of the clean energy puzzle. EESI focused on this issue in 2012. Our *Clean Energy Financing: What Works?* briefing, held in conjunction with the Embassy of Germany, attracted over 150 members of the policy community. The consensus was that a predictable investment climate, featuring stable policies that make it easy for companies to plan over the long-term, is vital.



Dr. Sabine Miltner, Group Sustainability Officer of Deutsche Bank, at the clean energy financing briefing.

4

Brought attention to the critical energy implications of the Farm Bill

Congress began debating a new Farm Bill in 2012. The bill isn't just about farming; it has big implications for America's energy use and security. EESI has engaged with policymakers to emphasize the bill's energy implications. Last year, and as the deliberations continue in 2013, EESI has argued for mandatory funding of the bill's energy title. This title promotes rural development through energy efficiency, renewable energy, and investments in domestic bioenergy. Investing in bioenergy can reduce America's dependence on oil and create jobs in struggling rural areas across the country.



Courtesy of U.S. Dept. of Agriculture

Nonfood crops such as willow can be used to produce biofuels.

5

Obtained recognition as one of D.C.'s Top Five Environmental Nonprofits

Thanks to your fantastic reviews, EESI was proud to be recognized by GreatNonprofits as one of only five Top-Rated environmental non-profits in Washington, D.C. Only 1 percent of eligible nonprofits received GreatNonprofits' coveted Top Rated Award. And 2012 was the second year EESI made the cut (58,000 environmental nonprofits were in the running!). EESI also received Charity Navigator's top rating — Four Stars — in 2012, for the sixth time in a row. This puts EESI in the top 3 percent of the nonprofits Charity Navigator evaluates.



mnev ★★★★★

08/06/13

EESI utilizes a variety of different means to draw attention to important environmental issues facing this country and possible solutions. Through congressional briefings, this year's very successful and informative Energy Expo, fact sheets, and Climate Change News, they work to fulfill their ... [more »](#)

JHoecker ★★★★★

07/23/13

EESI has a reputation as a hard working organization dedicated to providing policy makers with first-rate information about very complex energy and environmental issues. WIRES has worked with them on several occasions and have always been pleased with the resulting policy discussions... [more »](#)

[See all 53 reviews »](#)

6 Published a blueprint on how to advance high-performance green homes

EESI coauthored "Blueprint for Advancing High-Performance Homes," which was featured in the Winter 2012 edition of *Issues in Science and Technology*. Making homes more energy efficient and reducing their environmental impact is a priority: most homes will be around decades from now, so the sooner they are made more sustainable, the better. Sustainability also involves reducing water use, improving indoor air quality, increasing safety, and, of course, making homes more affordable to buy and maintain. We already know how to achieve many of these goals in a cost-effective way, the trick is to disseminate the knowledge. The blueprint proposes several steps to do just that.



7 Released the initial findings for South Carolina's "Help My House" Pilot



The Drummond-Henking family celebrates their energy retrofit as part of the "Help My House" trial project.

South Carolina's rural electric cooperatives (co-ops) and EESI released promising preliminary findings from our "Help My House" pilot. The project allowed co-op members to borrow money for energy efficiency improvements to their homes, and repay the loans through their electric bills—a process known as "on-bill financing." The participating households were projected to save an average of more than \$400 per year (after loan payments) by reducing their electricity use an average of 35 percent. On July 17, 2012, Secretary of Agriculture Tom Vilsack, citing the pilot's initial success, announced plans by USDA to establish the Energy Efficiency and Conservation Loan Program that could support scaled-up versions of the South Carolina pilot across the country. Separately, the Senate passed language (as part of the Farm Bill) that would create a nationwide on-bill financing program for co-ops.

8 Highlighted China's successes and challenges in clean energy and climate policy

China is the world's largest emitter of CO₂. Its staggering growth rate is putting ever more pressure on the environment. Fortunately, the Chinese government is increasingly aware of the pressing need to make China's growth more sustainable. *Why China Is Acting on Clean Energy*, an EESI briefing co-sponsored by the World Resources Institute, attracted over 100 attendees, including the head of a federal agency. Our issue brief detailing China's actions on clean power was widely read and demonstrates that, contrary to popular belief, China is working to address climate change.



Senate Committee on Energy and Natural Resources Staff Director Bob Simon speaking at the China briefing.



Courtesy Nissan USA



Courtesy Chevrolet

The Nissan Leaf (left) was the best-selling all-electric vehicle in the United States in 2012; the Chevy Volt (right) was number one for plug-in hybrid electric vehicles.

9 Showcased the rise of electric vehicles and what can be done to speed their deployment

Amid growing sales of electric drive vehicles (EVs), EESI held a well-attended briefing and released two fact sheets to show policymakers how this progress can be sustained. Greater electrification of our transport sector will bolster our economic and national security by reducing our dependence on oil. It will also reduce our greenhouse gas emissions. These multiple benefits can justify government incentives and consumer education campaigns to help EVs overcome market hurdles.



10 Helped organize the 15th Annual Congressional Renewable Energy and Energy Efficiency EXPO and Policy Forum

The year 2012 marked the 15th Annual Congressional Renewable Energy and Energy Efficiency EXPO and Policy Forum, which was first held in 1997. EESI has been actively involved in the organization of all 15 expos. Each expo is hosted by the Sustainable Energy Coalition – of which EESI is a founder and steering committee member – in cooperation with the House and Senate Renewable Energy & Energy Efficiency Caucuses. Expo 2012 attracted over 550 visitors, 50 exhibitors and 32 speakers, including Rep. Roscoe Bartlett (R-MD), Rep. Chris Van Hollen (D-MD) and Rep. John Garamendi (D-CA). EESI moderated and recorded the daylong policy forum, and produced 30 exhibitor video interviews to maximize exposure (www.eesi.org/expo2012). The event, which showcases both renewable energy and energy efficiency innovations, is a great opportunity for the policy community to network with entrepreneurs and industrialists who are in the vanguard of the clean energy economy.

2013 Sneak Preview

1

Celebrating the success of the “Help My House” pilot in S. Carolina



Satisfied participants in the Help My House pilot program.

South Carolina's consumer-owned electric cooperatives (co-ops) and EESI released the final results of their "Help My House" Loan Pilot Program in July 2013: the participating homes saw, on average, a 34 percent reduction in yearly energy use and savings of \$288 per year per home after loan payments. Some households saved significantly more. The Jones family in Hemingway was routinely paying from \$500 to \$700 (as much as \$779) for its monthly electric bill. Since early 2012, when \$8,400 worth of repairs and improvements were completed, its bill hasn't surpassed \$277! Andrea Jones can certainly use the extra money: she has two young children (aged 2 and 8), recently underwent surgery, and has been out of work since her mother's death in April 2013.

2

Advancing the fight against superpollutants

Addressing short-lived climate pollutants (SLCPs), also known as superpollutants, may provide the key to slowing climate change while we transition to a low-carbon economy. SLCPs, including black carbon (soot), methane, tropospheric ozone, and hydrofluorocarbons (HFCs), are responsible for roughly half of the global warming we are currently experiencing. Since they remain in the atmosphere for less than 20 years, cutting SLCP emissions now will help mitigate climate change in a generation or less. Following EESI's briefings and fact sheets on the topic, Rep. Scott Peters (D-CA) introduced the *Super Pollutant Emissions Reduction (SUPER) Act of 2013* (HR 1943) on May 9, 2013. The bill seeks to curb emissions of superpollutants to slow climate change, protect public health, and provide economic opportunities.



Rep. Scott Peters (D-CA) speaking at our 2013 briefing on harnessing landfill methane.

3

Promoting private financing solutions for energy-efficient homes



EESI and the Association of Public and Land-grant Universities (APLU) have been strongly promoting private-sector financing solutions for near net zero-energy (NNZE) housing and deep retrofits. Buildings are responsible for more than 40 percent of U.S. carbon dioxide emissions: making them more efficient is critical for mitigating climate change. Green financing is poised to take off: a successful beta test to finance NNZE construction and deep retrofits has taken place; and a national bank has agreed to underwrite loans for NNZE new homes and deep energy retrofits in a larger demonstration. We're helping to connect these innovators to the national policy community – the White House, the Federal Housing Administration, and others. That will help this approach spread even faster, drive down emissions, and make energy efficient housing more widely available and easier to finance.

Briefings & Events

WE BRING EXPERTS FROM GOVERNMENT, INDUSTRY, AND CIVIL SOCIETY TO CAPITOL HILL for Congressional briefings each year. EESI's briefings spur bipartisan discussions on cutting-edge research, success stories, lessons learned, and stakeholder feedback on environmental and energy policy issues. They are geared toward presenting facts and compelling stories, and offering solutions. More information is available at www.eesi.org/briefings.



At the Congressional Renewable Energy and Energy Efficiency Policy Forum on June 21, 2012

February

- Economic and Security Impacts of Light-Duty Fuel Economy Standards

March

- Energy Efficiency and Renewable Energy Budget for FY 2013; *co-sponsored by the House Renewable Energy and Energy Efficiency Caucus*
- Solar Power Trends: German and U.S. Perspectives; *co-sponsored by the Heinrich Böll Foundation*
- Public Transportation Investment: Spurring Local Economies and Preparing for Higher Gas Prices
- How Do Consumers Feel about Energy Codes?
- Conservation, Energy Security and Jobs with Biomass Crops? A Question for the Next Farm Bill

April

- The Nexus between Water, Energy and Climate: Shaping Long Term Policy to Create Jobs and Business Success for a Resource Efficient Economy; *co-sponsored by the Royal Danish Embassy*
- Renewable Gas, Hydropower and Geothermal Energy: What is the role of these often overlooked renewable resources?

May

- Can Renewable Energy Make American Electricity More Affordable, Reliable, and Abundant than Ever?

June

- 15th Annual Congressional Renewable Energy & Energy Efficiency EXPO + Policy Forum; *co-sponsored by the Sustainable Energy Coalition and the U.S. House and Senate Renewable Energy & Energy Efficiency Caucuses*

September

- Weatherization: A Success Story; *co-sponsored by the National Association for State Community Services Programs*

October

- Advancing the Deployment of Electric Vehicles
- Why China is Acting on Clean Energy: Successes, Challenges, and Implications for U.S. Policies; *co-sponsored by the ChinaFAQs Project of the World Resources Institute (WRI)*
- Clean Energy Financing: What Works? *co-sponsored by the Embassy of Germany*



Why China is Acting on Clean Energy briefing on October 12, 2012

December

- Insurance Industry Perspectives on Extreme Weather Events

Communications & Publications

NOW IN ITS SECOND YEAR, *Sustainable Bioenergy, Farms and Forests* has built an impressive following. Meanwhile, *Climate Change News*, our flagship publication, continues to be a reliable, weekly source of essential information. Our free newsletters help EESI fulfill its mission of informing policymakers and other interested individuals. Subscribers hail from Congress, federal/state/local agencies, media outlets, embassies, trade associations, companies, nonprofits, academic institutions, consultancies, and the general public. Our other outreach tools include fact sheets, policy papers, and social media, as well as the Congressional briefings for which we are best known.

EESI and its initiatives were featured in key media outlets including the Associated Press, *Los Angeles Times*, *Pittsburgh Tribune-Review*, and *Voice of America*. And EESI staff members were invited to speak at several conferences, including ones held by the National Caucus of Environmental Legislators, the National Association of State Energy Officials, the U.S. Government Accountability Office, the U.S. Green Building Council, Columbia University, 25x'25, the Association of Public and Land-grant Universities, and a roundtable of mayors from around the nation. All of this helps us connect with key local players in sustainability and clean energy in Washington, D.C., and throughout the country.



Subscribe to our free newsletters, publications and/or briefing announcements at www.eesi.org/subscribe



Never miss a briefing, subscribe to our YouTube channel at www.youtube.com/eesionline



Friend us on Facebook!
www.facebook.com/eesionline



Follow us on Twitter!
www.twitter.com/eesionline

By the Numbers in 2012

15 Congressional briefings

44 issues of *Sustainable Bioenergy, Farms, and Forests*

51 issues of *Climate Change News*

56 videos

136 Congressional offices attended EESI briefings

978 people attended EESI briefings

1,091 Twitter followers

1,686 Facebook fans

11,866 email subscribers

12,253 cumulative YouTube views

Selected Publications

www.eesi.org/pubs

Blueprint for Advancing High-Performance Homes

Carbon Pricing around the World

China's Actions on Clean Power

Cool Roofs

Faith Organizations and Climate Change

New Approaches in Renewable Energy Finance

On-Bill Financing, Helping Homeowners Implement Energy Efficiency Improvements

Plug-in Electric Vehicles

Plug-in Electric Vehicle Deployment

Preparing Transportation Infrastructure for Increased Climate Risk

Renewable Biomass Can Help Reduce U.S. Petroleum Dependence

Rural Energy Savings Program

Small Scale Wind Power for Homes, Farms and Communities

Technologies to Improve Shipping Efficiency

Financial Overview



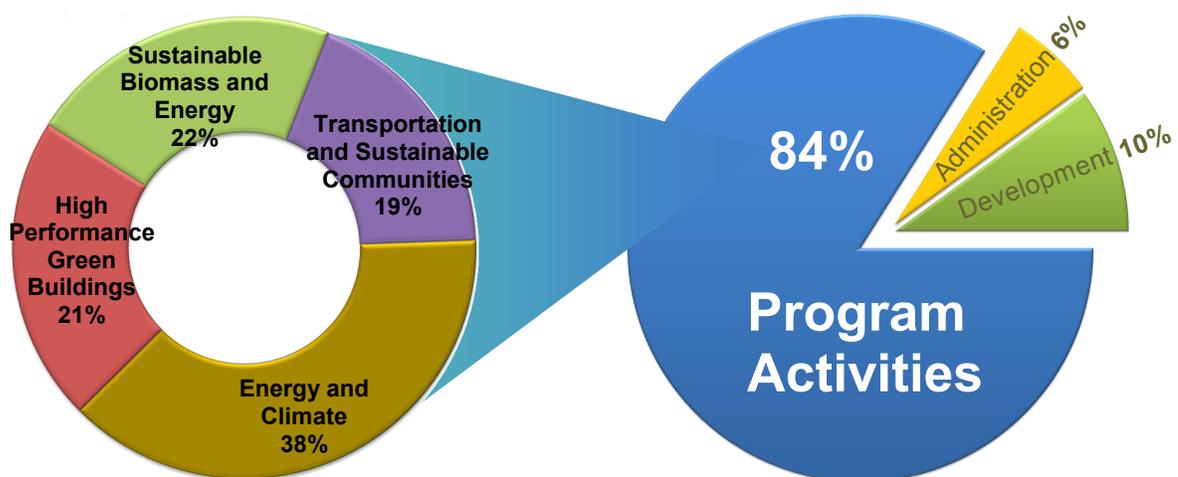
EESI CONTINUES TO MEET THE HIGHEST STANDARDS of accountability in the fulfillment of our mission. We are honored to have received a four-star charity rating (the highest possible) from Charity Navigator six times in a row. We efficiently put donor funds to work. In 2012, 84 percent of our support went directly to program activities. To maintain our credibility and effectiveness, our financial statements are reviewed by independent auditors.

Summary Statement of Activities

for the year ended December 31, 2012, with comparative totals for 2011

	2012	2011
TOTAL REVENUE	\$1,020,323	\$994,384
EXPENSES		
Energy and Climate	314,677	363,905
High Performance Green Buildings	176,736	139,114
Sustainable Biomass and Energy	181,017	208,460
Transportation and Sustainable Communities	152,926	181,064
Total Programs	825,356	892,543
General and Administrative	56,937	63,148
Development	94,720	93,310
TOTAL EXPENSES	977,013	1,049,001
CHANGE IN NET ASSETS	43,310	\$(54,617)
NET ASSETS, BEGINNING OF YEAR	3,172,949	3,227,566
NET ASSETS, END OF YEAR	\$3,216,259	\$3,172,949

Uses of Funds, 2012



The condensed financial information shown is a summary derived from EESI's 2012 audited financial statements. Our complete audited financial statements are available at www.eesi.org/funders or by calling us at (202) 628-1400.

Donors: EESI Associates

EESI ASSOCIATES HAVE MADE A SIGNIFICANT COMMITMENT TO EESI by partnering with us to foster clean energy. EESI Associates provide \$1,000, \$2,000, \$5,000 or more in general support. EESI is deeply grateful to all of our Associates. We also thank the many donors who give other amounts, whether by mail, online, or through workplace giving campaigns.

Adhikari, Emily
 ALLETE / Minnesota Power
 American Public Transportation Assoc.
 Anderson, Jack
 Anonymous
 Arora, Sartaj
 Austin Energy
 Becker, Debra
 Brenner, Jason
 Browder, Joseph and Louise Dunlap
 Brown, Quincalee
 Buchholzer, Frances
 Caplin Foundation (Mortimer Caplin)
 Carl E. Kessler Family Foundation
 Central Electric Power Cooperative Inc.
 Charles Spear Charitable Trust
 Decker, Gerald
 Dr. John W. Flory Foundation

Dull, Camille
 Duncan, Roger
 Edgar, Bob
 Fidelity Charitable Gift Fund
 Fidler, Shelley
 Foundation Beyond Belief
 Genzer, Jeff & Colleen
 Gipson, Aaron
 The Gordon and Betty Moore Foundation
 Honey, William
 Jacobs, Carolyn
 Kalick, Laura
 Lambert, Kevin
 Legrand North America
 Levine, Sean
 Lyons, Steven
 McAnally, Mary Lea
 McGregor, Megan

Mosaic Federal Affairs, LLC (Michael Brower)
 National Association of State Energy Officials
 National Hydropower Association (NHA)
 Natural Gas Vehicles for America
 Ottinger Foundation (Dick Ottinger)
 Pinto, J. Edson
 Polyisocyanurate Insulation Manufacturers Assn.
 The Renaissance Foundation
 Richard and Karen Whitney Charitable Fund
 Sant, Roger & Vicki
 Schmitz-Fromherz Family Fund
 Taylor, Ian
 Warner, James
 Wasner, Michelle
 Wintman, Alison
 Van Ness Feldman, LLC
 Zuckerman-Kanner Gift Fund

Italics: joined in 2013

Donor Spotlight: Austin Energy, Keeping Austin Green

AUSTIN, TEXAS, IS RENOWNED for its music, being weird ("Keep Austin Weird!"), and breakfast tacos. But behind the famous music festivals and growing tech scene is the electric utility that makes it all possible: Austin Energy. Austin Energy is the nation's 8th largest community-owned electric utility, serving a total population of almost one million.



Austin Energy has been a national leader in sustainable energy and energy efficiency initiatives. Its GreenChoice program, implemented in 2001, was groundbreaking and put Austin Energy at the forefront of renewable energy sales across the country. The Austin City Council, which directs Austin Energy, committed to sourcing 35 percent of the utility's energy from renewable sources by 2020. And recently, Austin Energy announced that it will meet the goal in 2016 – four years ahead of schedule. In addition to this goal, Austin Energy aims to reduce its carbon emission levels to 20 percent below 2005 levels by decreasing its use of coal.

Currently, Austin Energy is seeking to meet its sustainable energy goals through power purchase agreements with three new South Texas coastal wind farms (for a total of 570 MW). This brings its renewable energy portfolio to 1,225 MW of wind, a 30 MW solar farm, about 12 MW of solar rooftops, and a 100 MW biomass facility. While other utilities and cities in the country have similar renewable energy goals, Austin Energy will be the first to achieve the 35% milestone.

In addition to adding renewably sourced energy to its portfolio, Austin Energy offers many different rebates to residential and commercial customers to help fund energy efficiency improvements to their buildings. To further aid its customers in reducing their energy use, Austin Energy developed the nation's first Green Building Program. The program has successfully helped homeowners design and construct sustainable buildings since 1991.



© Regent Property Group

Austin's innovative energy market recently attracted the attention of BMW, which chose the city as an important early market for its new electric car, the i3. Austin Energy's Plug-In EVERYwhere network has also installed more than 160 publicly accessible electric-vehicle charging stations powered by 100% renewable energy (pictured). The stations

are never more than five miles apart, giving electric vehicles a nearly unlimited range in the city.

Austin Energy is concerned with improving more than just its corner of the world: it supports national policies that advance renewable energy and energy efficiency. EESI is proud to have Austin Energy as one of our EESI Associates, providing \$5,000 in 2012 to help our country move toward sustainable energy. EESI deeply appreciates the generous support of Austin Energy and all of our other donors, who make the work we do possible.

You Can Ensure a Sustainable Future



THE UNITED STATES MUST ACT NOW to address the urgent challenge of climate change and to further an economic recovery based on clean energy. Congress needs EESI's help to build effective, innovative policy solutions based on sound science. EESI is a leader in providing policymaker education and working with diverse groups to explore policy options and develop innovative solutions in addressing the nation's climate, energy, economic, and environmental challenges.

- **Donate securely online at www.eesi.org/donate**
Monthly giving is an easy way to show your support in a way that's easy on your budget.
- **Mail your donation to:**
Environmental and Energy Study Institute
1112 16th Street NW, Suite 300
Washington, DC 20036
- **Become an EESI Associate – or ask your employer to become one**
Contribute \$1,000, \$2,000, or more and receive special benefits.
- **Give to EESI through your workplace giving program**
EESI participates in the Combined Federal Campaign (CFC #10627), numerous state employer campaigns, and private sector workplace giving (through EarthShare).
- **Ask your company to match your gift**
If your company matches charitable donations, you can double your impact!
- **Other ways to give:**
 - Make a gift of stock
 - Sponsor a Congressional briefing
 - Include EESI in your will or estate
 - Give in honor or memory of someone

EESI is a charitable, tax-exempt 501(c)(3) organization. Gifts and grants are tax deductible to the full extent of the law. Our tax ID number is 52-1268030.



EESI has been designated a **Four Star Charity** (the highest possible rating) **six times in a row** by Charity Navigator, the nation's premiere charity evaluator. Only three percent of the non-profits that Charity Navigator rates have received at least six consecutive 4-star evaluations.



In 2012, EESI was also one of only five environmental non-profits in Washington, D.C., to have won the coveted **2012 Top Rated Award from GreatNonprofits**. Only 1 percent of eligible nonprofits won this accolade, and 2012 was the second year EESI made the cut (we made it in 2013 too!).

Questions? Please contact us:
(202) 662-1887 | eesi@eesi.org

Testimonials

EESI has received **many 4- and 5-star reviews on GreatNonprofits.org**, such as this one:

Before moving to my present position I was a Congressional staffer for many years and worked for both political parties. Many of those years, I was working on topics within EESI's sphere of influence and regardless of my position, EESI was a trusted source of information for my colleagues on Capitol Hill and me and a place I could turn for more information. EESI has always had a very talented and knowledgeable group of people working for them. They are unparalleled in their primary niche of providing timely and objective information on a spectrum of environmental and energy topics to Capitol Hill. I hope they keep up the good work for many years to come.

– **Jim Turner**, Senior Counsel and Director of Energy Programs, Association of Public and Land-Grant Universities

Grantors

Much of our work is made possible through the **grants we receive from foundations and government agencies:**

DORIS DUKE CHARITABLE FOUNDATION
ENERGY FOUNDATION
THE GEORGE GUND FOUNDATION
GOOGLE.ORG (IN KIND)
GORDON AND BETTY MOORE FOUNDATION
KRUPP FOUNDATION
MERCK FAMILY FUND
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OAK FOUNDATION
OTTINGER FOUNDATION
SALESFORCE FOUNDATION (IN KIND)
SURDNA FOUNDATION
UNITED NATIONS ENVIRONMENT PROGRAMME
U.S. DEPARTMENT OF ENERGY
U.S. ENVIRONMENTAL PROTECTION AGENCY
WALLACE GENETIC FOUNDATION

Profile: Dr. Rosina Bierbaum

An Environmental Scientist in the World of Policy

DR. ROSINA BIERBAUM'S involvement in environmental issues began at a very young age, when she was subjected to serious air pollution. She grew up in the town of Bethlehem, PA, just two blocks away from a steel plant. This was the pre-Clean Air Act era; Dr. Bierbaum and her siblings had to dust particulate matter off the car and the windowsills – every day.



Today, she remains deeply involved in environmental issues. "What once seemed inconceivable – that humans could impact the global cycles of water, nitrogen, carbon, and sulfur, has now become well-established," says Dr. Bierbaum.



Dr. Bierbaum and a Galápagos tortoise

She should know – she is uniquely qualified to discuss these issues. When Dr. Bierbaum graduated with a PhD in Ecology and Evolution from SUNY Stony Brook University, she was planning on staying in academia, as “a marine scientist in a beautiful coastal setting.”

But her career took an unexpected turn when, shortly after graduation, one of her mentors badgered her into applying for a Congressional Fellowship. When she arrived on Capitol Hill, she was dismayed to learn that fewer than a dozen of the 535 members of Congress had advanced degrees in environmental science or technology, even as they made decisions that had profound impacts on the environment. She kissed the beach dream goodbye, rolled up her sleeves, and spent the next 20 years in Washington at the critical nexus of science and policy, doing her part to inform policymakers about environmental science.

It was during her time on the Hill that she first encountered the Environmental and Energy Study Institute (EESI). According to Dr. Bierbaum, "The 1980s were a flurry of environmental awareness and activity in Congress. The bipartisan Environmental and Energy Study Conference, which formally became EESI in 1984, was very eager to tackle the emerging issue of acid rain and our small Office of Technology Assessment (OTA) team interacted with Dick Ottinger and George Brown almost daily to craft 19 different acid rain bills in a two-year period." The rest, as they say, is history.

Dr. Bierbaum's professional policy chops include 13 years at the Congressional Office of Technology Assessment and eight at the White House Office of Science and Technology Policy (including a year as Acting Director). In 2001 she took leave of Washington to take over as the Dean of the School of Natural Resources and Environment at the University of Michigan. Her time in DC had convinced her that there was a need for a new kind of environmental leader: scientists who could "speak the languages of economics, policy, law, engineering and negotiation."

During the decade she spent as a dean, she also co-directed the World Bank's *World Development Report 2010: Development and Climate Change*, and was named to President Obama's Council of Advisors on Science and Technology (pictured, with John Holdren, Obama's senior science and technology advisor, and the President). In 2011, the World



Bank made her one of their first Fellows, specializing in adaptation. This year, Dr. Bierbaum was named Chair of the Scientific and Technical Advisory Panel of the Global Environment Facility.

In short, Dr. Bierbaum has extensive experience serving up science policy. That's part of what makes her such an outstanding contributor to EESI's Board of Directors. "In the 20 years since I worked for Congress, environmental issues have become more complex, increasingly global, and interconnected," said Dr. Bierbaum. "In the 1970s, at the first Earth Day, we did not even know about acid rain, stratospheric ozone depletion, or climate change. Now, global issues must be factored into local decisions. We must think about how efforts to address any one problem can exacerbate or ameliorate others. This makes EESI's work informing Congress on ways to achieve clean and reliable energy generation while preserving our environment increasingly important. EESI is a very effective educator and communicator to the body politic and to the public at large, and I am very proud to serve on their board." We're lucky to be standing at the intersection of policy and science with Dr. Bierbaum to guide us.

REMEMBERING BOB EDGAR



EESI Board Member and former Representative Bob Edgar (D-PA), a founding member of EESI and the Environmental and Energy Study Conference, EESI's predecessor, passed away on April 23, 2013, one month shy of his 70th birthday. "Bob was an amazing person who made such a difference in so many ways. What a loss for so many and for our country," said EESI Executive Director Carol Wemer. Read more at bitly.com/bobedgar

2012 Board of Directors



Jared Blum, EESI Board Chair, President, Polyisocyanurate Insulation Manufacturers Association (PIMA)



Shelley Fidler, EESI Board Treasurer, Principal, Government Affairs, Energy and Environmental Policy, VanNess Feldman Attorneys at Law



Richard L. Ottinger, EESI Board Chair Emeritus, Professor Emeritus and Dean Emeritus, Pace University School of Law; former Member of Congress (D-NY)

John J. Sheehan, EESI Board Vice Chair, retired Legislative Director, United Steelworkers of America

Nancy Bacon, former Senior Advisor, Energy Conversion Devices, Inc.

Ambassador (ret.) Richard E. Benedick, President, National Council on Science and the Environment; 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; served as Acting Director, White House Office of Science and Technology Policy (OSTP); directed OSTP's Environment Division

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

Kenneth M. Connolly, Vice President of Government Relations, The Goldman Sachs Group, Inc; former Minority Staff Director, Senate Environment and Public Works Committee

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

Roger Duncan, Research Assistant, University of Texas Austin; former General Manager, Austin Energy Services

Bob Edgar, President and CEO of Common Cause; former Member of Congress (D-PA) (*passed away on April 23, 2013*)

John Gibbons, Ph.D., Consultant, former Director of the White House Office of Science and Technology Policy; former Director of the Congressional Office of Technology Assessment

Elliott Laws, Senior Counsel, Crowell and Moring LLP; former President of Safety, Health and Environment for Texaco Inc.; former EPA Assistant Administrator for Solid Waste and Emergency Response

Chris Schepis, Senior Professional Staff, House Homeland Security Committee; former Legislative Assistant, Sen. Roland Burris (D-IL); former Legislative Representative, National Farmers Union

Claudine Schneider, Independent Consultant; former Member of Congress (R-RI)

JOINED IN MAY 2013

Linda Church-Ciocci, Executive Director, National Hydropower Association

Harmon (Monty) Cooper, Associate, Sedgwick LLP

Laura Kalick, National Director, Nonprofit Tax Consulting, BDO

David Terry, Executive Director, National Association of State Energy Officials

Advisory Board

James Barrett, Ph.D., Chief Economist, Applied Solutions

Barbara Bramble, Senior Program Advisor, National Wildlife Federation

Lester R. Brown, President, Earth Policy Institute

Dr. Marilyn Brown, Professor, School of Public Policy, Georgia Institute of Technology; Tennessee Valley Authority Board Member

Tom Buis, CEO, Growth Energy

Jesse Caputo, Ph.D. Candidate, School of Environmental Science and Forestry, State University of New York (SUNY)

Ken Colburn, Senior Associate, Regulatory Assistance Project

Charles Cooke, EOP Group

Dr. Bruce Dale, Professor & Chair, Chemical Engineering Department, Michigan State University

John E. Echohawk, Executive Director, Native American Rights Fund

Cynthia Gardstein, Senior Vice President, Steven Winter Associates, Inc.

Karl Gawell, Executive Director, Geothermal Energy Association

Andrew Goldberg, Senior Director, American Institute of Architects

Glenn Hamer, President and CEO, Arizona Chamber of Commerce and Industry

Bill Holmberg, Chairman, Biomass Coordinating Council, American Council on Renewable Energy

Stephen S. Kalland, Executive Director, North Carolina Solar Center, North Carolina State University

Skip Laitner, Principal and Independent Consultant, Economic and Human Dimensions Research Associates

Michael MacCracken, Ph.D., Chief Scientist for Climate Change Program, Climate Institute

Joseph Michels, Managing Director, One Equity Partners

Frank Murray, President & CEO, New York State Energy Research and Development Agency

Robert Musil, Ph.D., Adjunct Professor, School of International Service, American University

Shirley Neff, Senior Advisor, Energy Information Administration

Ruth Patrick, Senior Curator, Academy of Natural Sciences of Philadelphia

Rhone Resch, President, Solar Energy Industries Association

Joseph Romm, Editor – ClimateProgress, Center for American Progress

Roger Sant, Co-founder and Chairman Emeritus, The AES Corporation, Principal, Sant Associates, LLC

Jeff Seabright, Vice President for Environment and Water Resources, The Coca-Cola Company

Beth Shearer, President, Beth Shearer and Associates

Scott Sklar, President, The Stella Group, Ltd.

Scott Slesinger, Legislative Director, Natural Resources Defense Council

Paul Thomsen, Senior Vice President and Counsel, Ormat Technologies

Scott A. Weiner, Managing Director, Point Prospect Consulting, LLC

Jon Wellinghoff, Chairman, Federal Energy Regulatory Commission



**Read articles, briefings, fact sheets, and more at:
eesi.org**



[f](#) [t](#) [g+](#) [in](#) [i](#) [You Tube](#) [v](#) /eesionline

