

Science for a healthy planet and safer world.

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THE 2013 ANNUAL REPORT



**Union of  
Concerned Scientists**

*The Union of Concerned Scientists puts rigorous, independent science to work to solve our planet's most pressing problems. Joining with citizens across the country, we combine technical analysis and effective advocacy to create innovative, practical solutions for a healthy, safe, and sustainable future.*

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[ MESSAGE FROM THE CHAIR AND EXECUTIVE DIRECTOR ]

## Beating Gridlock with Solutions



Polarization and political gridlock in Washington were worse than ever in 2013. But, thanks to your help, we didn't let that stop us—or even slow us down. We fought partisanship with solutions that address oil consumption, clean energy, nuclear safety, healthier food, the consequences of global warming, and much more.

Across the country, we championed the vital roles that independent science and technical analysis should play in making choices that build a healthier planet and safer world, and found widespread enthusiasm and many new partners for this solutions-oriented approach.

- In New Jersey, one year after Hurricane Sandy, we gathered state and federal officials, scientists, and community groups to reflect upon the realities of climate change and help the region prepare for a future with more disruptive weather.
- In California, we engaged experts and activists from across the political spectrum to explore how communities can access and apply the best available scientific information on hydraulic fracturing and other unconventional oil and gas extraction techniques.
- We beat back the fossil fuel industry's attempts to weaken renewable energy standards in a dozen states and helped 14 states pass new standards or strengthen existing ones.
- We worked with both industry representatives and environmentalists to finalize tough new vehicle standards that will nearly double the fuel economy of new cars and light trucks by 2025, saving millions of barrels of oil each day.

James J. McCarthy  
Chair

Kathleen Rest  
Executive Director

Our diverse partners respect the Union of Concerned Scientists' unwavering position that scientific analysis used in policy making must be untainted by political calculations or corporate hype. That's why, with your support, we'll continue to aggressively fight back against those who mislead the public about climate change, nuclear weapons, sustainable agriculture, and more, exposing disinformation and "counterfeit" science while defending scientists' ability to conduct and report on their research without political interference.

For all your help in these efforts, we thank you.



## [ Confronting sea level rise

In October 2012, Hurricane Sandy caused more than 100 deaths and an estimated \$68 billion in damage—even though it was not a major storm in terms of wind speed. Rising seas, driven by global warming, not only made Sandy’s storm surge deadly but are also making flooding an everyday concern for people in low-lying areas. In Florida, for example, the sea level at Miami Beach has risen 12 inches since 1880, and the city of Hallandale Beach was recently forced to spend \$16 million on new drinking-water wells after saltwater contaminated its existing wells.

UCS is addressing the gulf between local needs and congressional inaction on climate change by working with experts in America’s most at-risk regions, bringing attention to the dangers these areas face and creating a drumbeat for national change that politicians cannot ignore. Six months after Sandy, we hosted a meeting of officials from 14 East Coast municipalities to discuss strategies for

adapting to worsening storm surge and sea level rise; it was covered by national media outlets including The Weather Channel. Three women we worked with on local climate impacts—two in Florida and one in Colorado—were honored as “Champions of Change” by the White House, and President Obama cited stories like theirs in announcing his Climate Action Plan, which includes policies for reducing global warming emissions that UCS has long advocated.

Less than a week after we released a report on the financial risks American taxpayers face due to artificially low insurance rates in coastal flood zones, New Jersey Governor Chris Christie vetoed a bill that would have allowed development on piers in high-risk areas. And on the one-year anniversary of Sandy, we brought local scientists and decision makers together in New Jersey for a forum on how we should prepare for the next big storm.



*“As a climate scientist who wanted to go beyond ‘sounding the alarm,’ I joined UCS so I could be a part of the solution. We offer a reasonable path to slow climate change and build resilience to its consequences.”*

**—BRENDA EKWURZEL,**  
SENIOR CLIMATE SCIENTIST,  
UCS CLIMATE AND  
ENERGY PROGRAM



*“I’m proud of our leadership in advancing renewable energy policies. UCS has contributed to the current transition away from coal, and to growth in wind and solar power, which is creating jobs and reducing global warming emissions.”*

**—STEVE CLEMMER,**  
DIRECTOR OF ENERGY  
RESEARCH AND ANALYSIS,  
UCS CLIMATE  
AND ENERGY PROGRAM

The biggest shift in the U.S. power sector in half a century is now under way. Consider, for example, the coal-fired Merrimack Station power plant in New Hampshire, whose owner spent \$422 million in 2009 to upgrade two 1960s-era generating units. Despite that investment, the company is now opting to idle the Merrimack plant for months at a time because it costs substantially more to run it than to buy electricity from cleaner-burning natural gas plants elsewhere in New England.

In a 2012 report UCS showed that 353 of the nation’s aging coal plants were similarly “ripe for retirement”—no longer economically competitive with cleaner alternatives—and by November 2013, utilities had announced the closure or conversion to natural gas of 73 of the coal plants we named, and 41 additional generating units. These decisions will reduce global warming emissions by up to 116 million tons each year. As coal-fired generation declines, UCS is working to ensure that the

power sector does not become dependent on natural gas (like coal, a fossil fuel that emits heat-trapping gases when burned), but expands renewable electricity generation to at least 25 percent of the U.S. total by 2025 and 80 percent by 2050.

To bolster this effort, we published two reports in our “Energy You Can Count On” series: *Ramping Up Renewables* demonstrates how the U.S. electricity grid can deliver significantly more clean energy reliably; *How Renewable Electricity Standards Deliver Economic Benefits* details the jobs and economic development that clean energy can bring to the manufacturing sector. In the fall, we gathered more than 200 West Virginia policy makers, business owners, labor representatives, activists, academics, and reporters to discuss why coal mining states need to diversify their economies—and the bright economic future that can result when they do.

## [ Prioritizing clean energy





*“The biggest challenges of our time require science-based solutions. I’m energized by what we can achieve when we arm our elected officials and citizens with the power of evidence on specific issues such as hydraulic fracturing.”*

—PALLAVI PHARTIYAL,  
SENIOR ANALYST AND PROGRAM  
MANAGER, CENTER FOR SCIENCE  
AND DEMOCRACY AT UCS

In Culver City, California, a few oil rigs loom on the horizon, but more could be coming soon. When the community recently tried to learn about the drilling technologies involved, it quickly discovered that finding independent information would be a challenge. How can communities like Culver City decide whether and how to allow such activity to proceed?

This dilemma is a result of recent expansion in oil and gas development made possible by technological advances such as horizontal drilling and hydraulic fracturing (or “fracking”) that have made it easier to reach previously inaccessible oil and gas reserves. The dizzying pace at which fracking is proceeding has outpaced both the scientific information available and federal, state, and local governments’ regulatory responses.

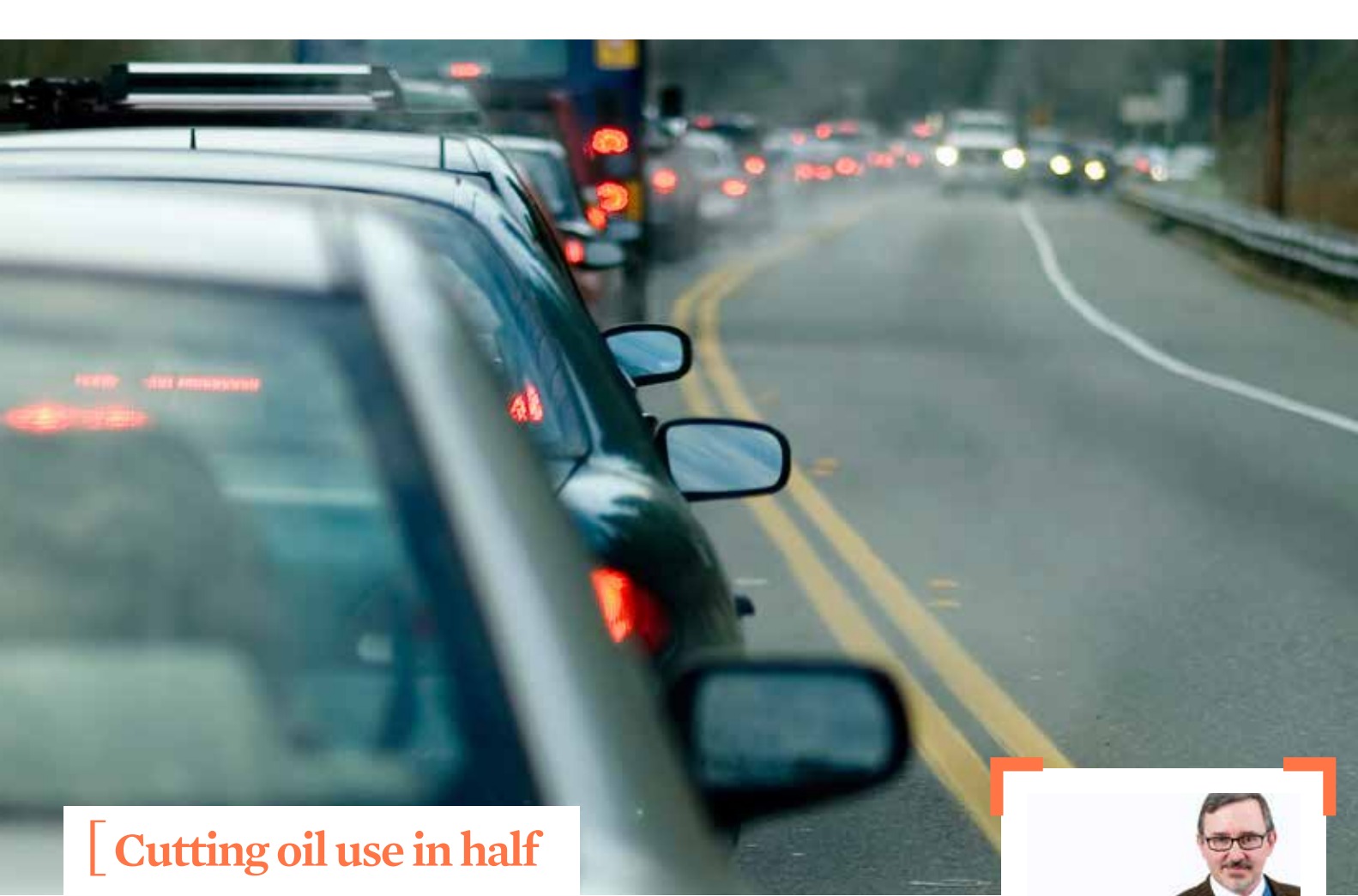
Over the past year, UCS worked to fill this information gap by bringing nearly 75 top scientific and regulatory experts, industry representatives, politicians, and activists from

around the country together to focus on how communities can access the best available science on fracking and its potential impacts on their local environment, economy, and public health and safety. We issued an in-depth report informed by conversations at the forum, as well as an informational “toolkit” for affected communities. In Culver City and several other areas, we are putting the toolkit into action by connecting UCS Science Network members with community leaders so science can inform the discussion.

Furthermore, we are calling on Congress to close legislative loopholes that exempt fracking from laws such as the Safe Drinking Water Act, to require drilling companies to disclose details about fracking chemicals before drilling can begin, and to require water and air quality monitoring before, during, and after fracking. Communities have a right to know about the potential consequences and UCS is committed to helping them make informed choices.

## [ Bringing science to fracking decisions





## [ Cutting oil use in half

Imagine if the United States could cut its projected oil use in half over the next 20 years—we would save billions of dollars every year, dramatically reduce global warming emissions, and ease many other problems including oil spills and air pollution. This isn't just wishful thinking. It's doable, and UCS has a smart, technically feasible plan to accomplish it: we are empowering consumers to make smarter choices about their personal transportation; promoting technologies that can improve fuel economy and power our vehicles with clean electricity, hydrogen, and sustainable biofuels; and working with legislators to enact the state and federal policies required to meet this objective.

In 2013, we recruited hundreds of experts to voice support for our plan and, through reports, multimedia projects, and targeted outreach, successfully drew the attention of the media and key policy makers.

For example, our report *Where Your Gas Money Goes*, with its finding that consumers spend almost as much on gasoline over the life of a vehicle as its original cost (but could save thousands with a fuel-efficient model), was featured on NBC's *Today Show* and in newspapers around the country. Another report, *Fueling a Better Future*, quantified the money and emissions our plan could save, and the jobs it could create.

Most importantly, UCS led the coalition that helped secure strong proposed standards that will cut sulfur in gasoline and pollution from our cars, protecting tens of thousands of people from asthma and other impacts of air pollution. By building support among health, industry, labor, environmental, and consumer groups, and mobilizing tens of thousands of supporters, we are keeping these important standards on track despite opposition from the oil industry and its friends in Congress.



*“UCS gives me the opportunity to use my scientific training and engineering skills to analyze challenges we’ve inherited from old transportation technologies, and develop practical solutions that reduce oil consumption and global warming emissions.”*

**—JEREMY MARTIN,**  
SENIOR SCIENTIST,  
UCS CLEAN VEHICLES PROGRAM



## [ Growing healthy food (and farms) ]

From the air, the American Corn Belt looks like a corduroy quilt: mile upon mile of rectangular patches stitched together by country roads. This is evidence of monoculture, in which a single crop is grown intensively over a large area, aided by chemical fertilizers and pesticides. The U.S. government has long encouraged this system by paying farmers to grow crops that go into unhealthy processed foods, while simultaneously telling consumers to eat more fruits and vegetables.

The result is that taxpayers subsidize both the production of junk foods and the treatment of diseases caused by overconsumption of those foods (not to mention the environmental impacts of “industrial” agriculture). UCS is working to persuade decision makers that shifting subsidies toward fresh fruits and vegetables can improve Americans’ health, save lives, and shrink the deficit. Last May we outlined our vision in *The Healthy Farm*, which describes how a change in agricultural practices can produce sufficient food while

protecting natural resources. We followed that with *The \$11 Trillion Reward*, which found that if Americans ate enough fruits and vegetables to meet federal dietary guidelines, we would save \$17 billion in medical costs and 127,000 lives each year—valued by economists at an astounding \$11 trillion.

Our work has gained the support of health experts and fiscal conservatives alike, and captured the attention of celebrity chefs Rick Bayless and Tom Colicchio, best-selling author Michael Pollan, and *New York Times* columnist Mark Bittman, who collectively helped *The \$11 Trillion Reward* reach more than 6 million people on Twitter. Furthermore, our 2012 report on the policy hurdles that prevent many organic farmers and fruit and vegetable growers from obtaining crop insurance led the U.S. Department of Agriculture to make significant improvements in its insurance program. We are now working to unite agroecologists and other scientists in a call for increased investment in healthy farming.



*“It’s gratifying for me to play a role in educating the public and policy makers about the science of agroecology, which can help ensure that farms remain productive without destroying the natural resources we’ll need tomorrow.”*

**—KAREN PERRY STILLERMAN,**  
SENIOR ANALYST AND DEPUTY  
DIRECTOR, UCS FOOD AND  
ENVIRONMENT PROGRAM





*“I came to UCS to use science to increase nuclear security and public safety. By teaming scientists and engineers with experts in policy, communications, and outreach, UCS amplifies the impact of my research far beyond what I imagined was possible.”*

**—DAVID WRIGHT,  
SENIOR SCIENTIST AND  
CO-DIRECTOR, UCS GLOBAL  
SECURITY PROGRAM**

Forty miles north of New York City, the Indian Point nuclear power plant’s Unit 3 cooling pool currently contains five times more radioactive waste than it was designed to hold. These pools, which rely on electricity to prevent nuclear waste from overheating and releasing radiation, are vulnerable to natural disasters and terrorist attacks. And sadly, the situation at Indian Point is the norm—one in three Americans live within 50 miles of reactors with cooling pools, most of which are overcrowded with radioactive material.

A safer storage method is available: transferring the waste to concrete and steel “dry casks,” which do not require electricity and are much less vulnerable than pools. Official government studies show such transfers could very significantly reduce the consequences of a severe accident or terrorist attack. UCS is pushing federal, state, and

local authorities to support such a transfer (along with other critical safety and security improvements to nuclear power plants).

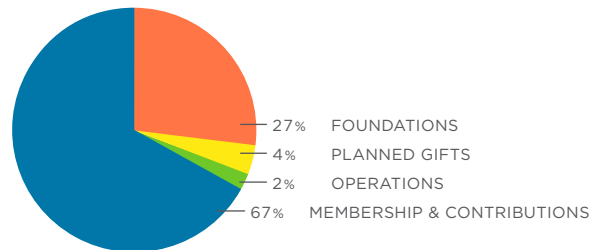
During the past year, we briefed the Nuclear Regulatory Commission on the lessons learned from the disaster in Fukushima, Japan; testified before the Senate Energy and Natural Resources Committee; engaged dozens of state legislators and generated some 500 phone calls and 11,000 e-mails to U.S. senators who are considering a nuclear waste bill. We are educating these members of Congress about why the transfer of waste to dry casks must be part of any waste management plan, and our position has earned the support of the labor and environmental groups that make up the BlueGreen Alliance.

## **[ Making nuclear waste safer**



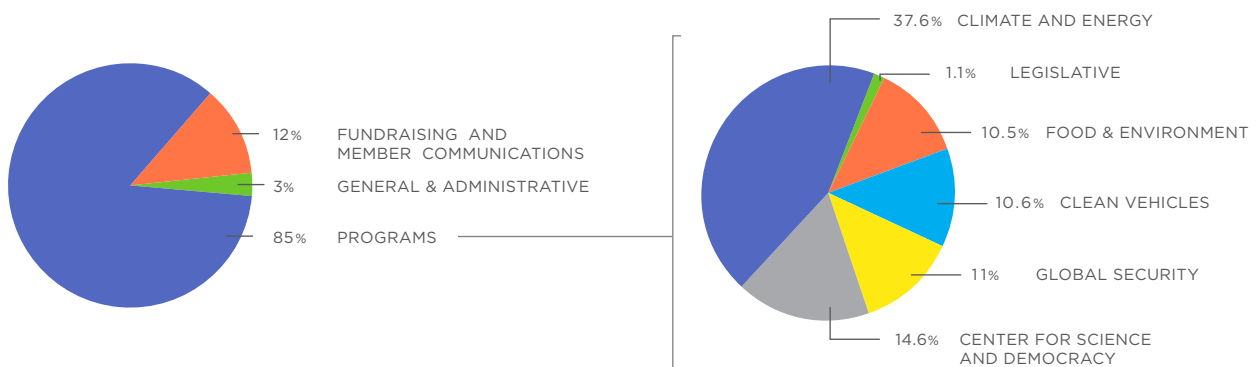
**REVENUE**

*UCS has a membership of more than 90,000 individuals, and 67 percent of our earned revenue came from these generous donors; support from foundations represented an additional 27 percent of our income. We continue to benefit from the generosity of these individuals and foundations and others, who work in partnership with us to build a healthier and safer world.*



**EXPENSES**

*Eighty-five percent of every dollar contributed to the Union of Concerned Scientists in fiscal year 2013 directly funded our program work, with the remaining 15 percent spent on critical infrastructure and fundraising to support programs. With an annual budget of more than \$23 million, we continued to strengthen our unique ability to bring the power of independent science to solving our planet’s most pressing problems.*



NOTE: These results had not been audited at press time; for our official statement, visit the UCS website at [www.ucsusa.org/funding](http://www.ucsusa.org/funding).

[ UNAUDITED FINANCIAL STATEMENT ] Year ending September 30, 2013

OPERATING REVENUE AND OTHER SUPPORT	UNRESTRICTED			TEMPORARILY RESTRICTED	PERMANENTLY RESTRICTED	TOTAL
	GENERAL OPERATING	BOARD DESIGNATED	TOTAL			
Membership And Contributions	\$13,517,944		\$13,517,944	\$2,675,317		\$16,193,261
Foundation & Other Institutional Grants	100,000		100,000	6,485,099		6,585,099
Net Investment Income (Loss)	(6,668)	3,185,106	3,178,438	21,147		3,199,585
Bequests and Net Annuities	300,000	705,356	1,005,356			1,005,356
Other Revenue	227,609		227,609			227,609
Sublease Income	141,764		141,764			141,764
Interfund Transfers	536,050	(536,050)				
Net Assets Released from Restrictions:						
Satisfaction of Program Restrictions	9,076,962		9,076,962	(9,076,962)		
<b>Total Operating Revenue &amp; Other Support</b>	<b>23,893,661</b>	<b>3,354,412</b>	<b>27,248,073</b>	<b>104,601</b>		<b>27,352,674</b>
<b>OPERATING EXPENSES</b>						
Programs:						
Climate and Energy	8,984,910		8,984,910			8,984,910
Clean Vehicles	2,532,576		2,532,576			2,532,576
Global Security	2,626,408		2,626,408			2,626,408
Food and Environment	2,513,832		2,513,832			2,513,832
Science Center	3,479,942		3,479,942			2,513,832
Legislative	261,194		261,194			261,194
<b>TOTAL PROGRAMS</b>	<b>20,398,862</b>		<b>20,398,862</b>			<b>20,398,862</b>
Supporting Services:						
Fundraising & Member Communications	2,782,641		2,782,641			2,782,641
General and Administrative	712,158		712,158			712,158
<b>TOTAL SUPPORTING SERVICES</b>	<b>3,494,799</b>		<b>3,494,799</b>			<b>3,494,799</b>
<b>TOTAL OPERATING EXPENSES</b>	<b>23,893,661</b>		<b>23,893,661</b>			<b>23,893,661</b>
Change in Net Assets	( 0 )	3,354,412	3,354,412	104,601		3,459,013
Net Assets at Beginning of Year	2,671,242	26,113,537	28,784,779	6,859,385	185,435	35,829,599
<b>NET ASSETS AT END OF YEAR</b>	<b>\$2,671,242</b>	<b>\$29,467,949</b>	<b>\$32,139,191</b>	<b>\$6,963,986</b>	<b>185,435</b>	<b>\$39,288,612</b>

For audited results, visit the UCS website at [www.ucsusa.org/funding](http://www.ucsusa.org/funding). Shaded area indicates operating budget.



## [ NATIONAL ADVISORY BOARD ]

*Members of the UCS National Advisory Board support our work by lending their time, resources, and expertise in support of our strategic goals. They share a commitment to public policy based on sound science and are united by a desire to help UCS put science to work for a healthy environment and safer world. We thank them for their partnership and dedication over the past year.*

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<sup>+</sup> HENRY KENDALL SOCIETY LEADERSHIP LEVEL (\$10,000+)

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*The Union of Concerned Scientists gratefully acknowledges the following foundations and members of the Henry Kendall Society for their generous contributions of at least \$1,000 during our fiscal year 2013 (October 1, 2012, to September 30, 2013).*

*We would also like to thank the thousands of supporters who could not be listed here due to space considerations or who prefer to remain anonymous. You are the reason we are able to remain a strong, independent voice for putting science to work to solve our planet's most pressing problems. Thank you.*

*Inspired by the challenge of a generous (and anonymous) donor, 19 current UCS donors contributed more than \$800,000 in support of the new Center for Science and Democracy at UCS. These funds were matched by the anonymous donor, generating over \$1.6 million toward this important new initiative.*

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*“As a scientist, I deeply appreciate the approach that UCS takes to identifying, analyzing, and tackling the critical environmental and science policy issues of our time. As an educator, I am proud to support an organization that provides the public and our elected officials with top-quality scientific information that can easily be understood and acted upon.”*

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*“I have been a member of UCS since 1975 and have respect for the science that the organization brings to the challenges posed by climate change. Last year I decided to divest my stocks in fossil fuels and chose to give the proceeds to UCS because I trusted that they would be used to advance smart solutions to the issues I care about.”*

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