



**ADVANCED HYBRID VEHICLES
THE PROGRESS & THE PROMISE**

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**ADVANCED HYBRID VEHICLES:
THE PROGRESS & THE PROMISE**

By Eric Heitz', President

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OLD TECHNOLOGY, NEW PROBLEMS

The United States sold 16.7 million cars and light trucks in 2003—an average of about 46,000 each day. Automakers expect sales in 2004 to top 17 million. The world's fastest-growing auto market, China, expanded 35 percent last year and shows no signs of slowing. China projects it could have 120 million vehicles on the road by 2030, up from 18 million today.² In 1960, less than 4 percent of the world's population owned cars. By 1980, 9 percent owned such vehicles, and today 12 percent of the world's population owns cars. Even a conservative projection that 15 percent of the world's citizens will own cars by 2020 will put the world passenger-vehicle fleet at 1.1 billion—400 million more than today's.³ SEE FIGURE 1

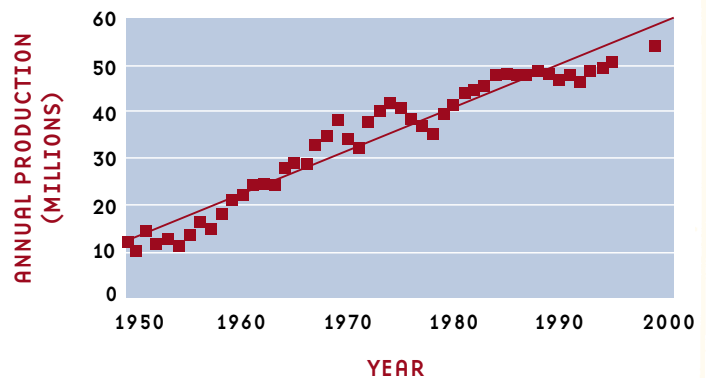
Today's cars are powerful, reliable, and luxurious; they provide both freedom and status. Yet they do so at very low efficiency: a typical car converts only about 13 percent of the energy in gasoline into travel. The remainder, 87 percent, is largely wasted in the form of heat and emissions. SEE FIGURE 2

Automobile propulsion technology has not fundamentally changed since the first cars replaced horse-drawn carriages. The best-selling engine in the United States is a V-8 pushrod engine. Japanese manufacturers discarded pushrod technology 30 years ago as inefficient. Today's cars are marvels of performance but reflect only incremental changes to a 100-year-old technology. Unfortunately, the world can no longer depend on incremental improvements. Policymakers must confront a simple truth: today's automobile fleet is not compatible with any conception of a clean energy future. Three conditions demand revolutionary change:



FIGURE 1

TRENDS IN MOTOR VEHICLE PRODUCTION





YES, HYBRIDS STILL HAVE
A GAS CAP.

BUT YOU WON'T NEED TO USE IT AS OFTEN. A NEW PRIUS, FOR INSTANCE,
AVERAGES 600 MILES BETWEEN FILL-UPS.

A white electrical outlet is centered in the frame. A red banner with white text is superimposed over the middle of the outlet. The background is a light green color with faint, white circuit diagrams scattered around the outlet.

**YES, IT'S ELECTRIC,
BUT YOU DON'T PLUG IT IN.**

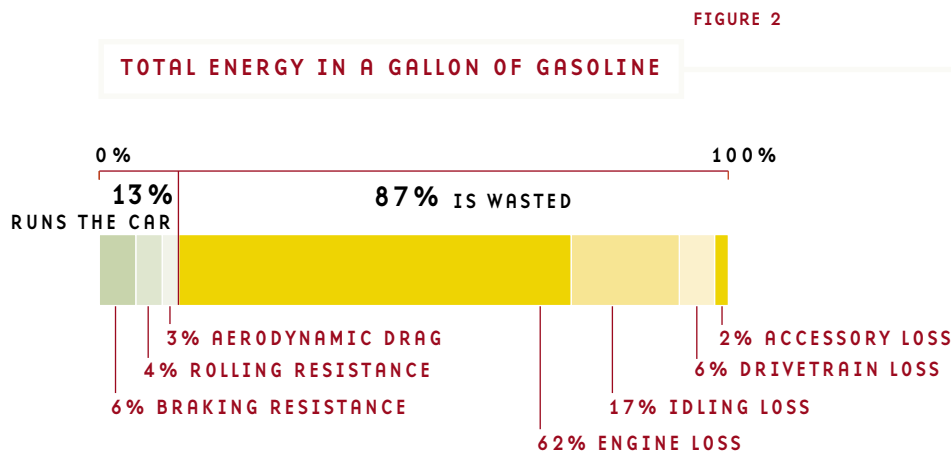
THE BATTERY IN A HYBRID CAR CHARGES AUTOMATICALLY WHILE YOU DRIVE
AND WHILE YOU BRAKE.

① **URBAN AIR QUALITY** Cars and light trucks are a major contributor to smog formation. In the United States, highway vehicles are the single largest source of smog-causing emissions, responsible for 57 percent of the nation's carbon monoxide, 30 percent of nitrogen oxides, and 27 percent of volatile organic compounds.⁴ In urban areas, vehicles are also a major source of fine particulate matter. A recent World Bank report estimated that air pollution in China is responsible for 178,000 premature deaths and over 6.7 million emergency room visits for respiratory problems each year; vehicles emit half the smog-causing nitrogen oxides in China's urban centers.⁵

② **OIL DEPENDENCE** The United States used 19.6 million barrels of oil per day in 2002, over half of which—54 percent—was imported. America's *Annual Energy Outlook 2004*, the most recent U.S. government projection, predicts a growth of 1.6 percent per year in oil consumption, leading to a 70 percent dependence on imported oil by 2025.⁶ Passenger vehicles consume the largest share of this oil: 40 percent. Even with new oil fields opening in the Caspian basin and with increased production

from Russia, Africa, and South America, the Persian Gulf will still produce most of the world's oil. This region also has production cost advantages and the largest surplus production capacity, allowing it, more than any other region, to set world oil-market prices.

③ **GLOBAL WARMING** In the United States, passenger vehicles account for about 24 percent of global-warming emissions, primarily in the form of carbon dioxide.⁷ Transportation emissions are the fastest-growing emissions. U.S. passenger vehicles alone emit as much carbon as all of Japan. The world's leading climate scientists project a warming of 6 to 10 degrees Fahrenheit over the next 100 years, with potentially costly consequences. Increased flooding and drought, more extreme storm events, accelerated species extinction, worsened urban smog, coastal erosion, and more frequent vector-borne diseases are among them.



THE AUTOMOBILE TECHNOLOGY REVOLUTION

If the world wants personal mobility but recognizes the constraints of urban air pollution, oil supplies, and global warming, what path should we take? This essay offers a three-step evolution in automobile technology in which hybrid vehicles play a central role:

① IMPROVE CONVENTIONAL VEHICLES

Improvements to conventional automobile technologies are cheap, available now, and await only manufacturer willingness, or political will, to be adopted. According to a recent National Academy of Sciences study, incremental low-cost improvements could raise the efficiency of conventional vehicles by at least 30 percent with a net savings to car owners.⁸ A gradual increase to 40 miles per gallon (mpg) in fleet-fuel economy would, by 2012, save consumers \$30 billion at the gas pump and save 2 million barrels of oil per day—about what we import from Saudi Arabia.⁹

② **RAPIDLY INTRODUCE HYBRIDS** Hybrid automobiles, combining an electric motor drive with finely tuned internal combustion engines, are the first fundamental leap in automobile-propulsion technology since the Model T rolled off Henry Ford's production line. Hybrids out today double vehicle fuel-economy while maintaining vehicle power, comfort, safety, and range. They achieve these gains using the existing fueling infrastructure and without requiring any change to driving behavior. Hybrids are also a logical stepping-stone to hydrogen fuel-cell technology, which holds the promise of zero-emission transportation.¹⁰

③ ULTIMATELY MOVE TO A GREEN HYDROGEN ECONOMY

Hydrogen fuel cells produce zero local emissions. When hydrogen is produced by renewable-energy sources, transportation can be pollution free. The promise of hydrogen fuel-cell vehicles is great, and scientific and political interest around them is high. Government and private interests should continue to work together to develop the best fuel-cell vehicle technologies and move them rapidly toward commercial viability. R&D, early fleet trials, and fueling infrastructure work are needed. In the near term, improvements to conventional technology and the rapid introduction of hybrids offer the best path to meeting world auto growth while also working within the constraints of urban air quality, oil dependence, and global warming.

The remainder of this essay explores the promise of advanced hybrid passenger vehicles. It does not cover heavy-duty vehicle hybrids—buses, trucks, utility vehicles—which also show tremendous promise. The first section explains how hybrids can double vehicle fuel-economy and dramatically reduce emissions. The second section talks about the performance of today's hybrids. The essay concludes with a description of international best practice policies for advancing passenger-vehicle hybrid technologies.

HYBRID PERFORMANCE

The technological leap of the hybrid is the integration of an electric motor and battery with an optimized internal combustion engine. The design goal is simple: use the best characteristics of each component to maximize efficiency and performance. This marriage between internal combustion engine and electric motor enables automobile designers to pursue two new goals:

① DESIGNING FOR THE ENGINE'S

SWEET SPOT Engines are most efficient in a narrow operating range—usually a steady, moderate highway speed. Acceleration and deceleration take engines out of this range, increasing fuel use and emissions. This is why, for example, miles per gallon in the city is lower than on the highway for conventional cars. The opposite is true for hybrids, whose engine operating-range and regenerative braking (see description below) result in better fuel economy in city driving.¹¹ The electric motor can “fill in” for the engine when it is out of its sweet spot. When you accelerate rapidly in today’s Toyota Prius or Honda Civic hybrids, for example, you can see (and feel) the electric motor smoothly engaging to help the gasoline motor stay closer to its optimum operating range.

② DESIGNING FOR THE STOP/START

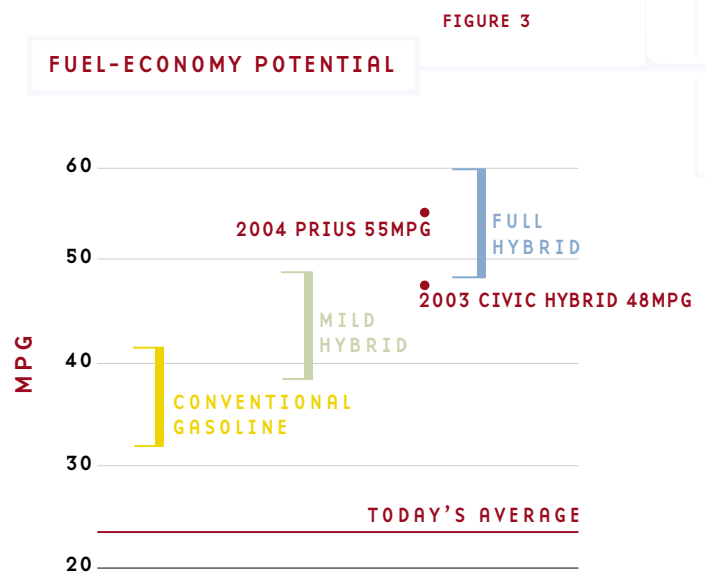
DRIVING CYCLE A huge portion of the energy generated by today’s cars is wasted when we put on the brakes. Essentially, drivers are taking the energy of the moving car and dissipating it by heating up the brake pads and the tires. Hybrids change all this by using regenerative braking, which slows the car down by charging a battery pack, converting the kinetic energy of the car into electrical energy to be tapped when needed.

EFFICIENCY

The result of meeting these design challenges is extraordinary efficiency without diminishing performance. The figure below estimates the fuel-economy potential for hybrid and conventional vehicles, compared with today’s fleet average. It also shows the real-world performance of the hybrids in showrooms today. Hybrid technology can at least double the average fleet-fuel economy. **SEE FIGURE 3**

EMISSIONS

Today’s gasoline-electric hybrids are compatible with state-of-the-art control of pollutants such as hydrocarbons, nitrogen oxides, and particulates, all of which cause urban smog and serious health problems. Hybrids are among the cleanest cars on the road, meeting the California Super Ultra Low Emission Vehicle (SULEV) standard and the most stringent federal standards.



Source: Union of Concerned Scientists

With respect to global-warming emissions, the Massachusetts Institute of Technology (MIT) recently estimated the total life-cycle greenhouse-gas (GHG) emissions in 2020 from conventional vehicles, hybrids, and fuel cells.¹² The results are interesting on two fronts. First, hybrid platforms offer significant carbon reductions compared with their non-hybrid counterparts. SEE FIGURE 4

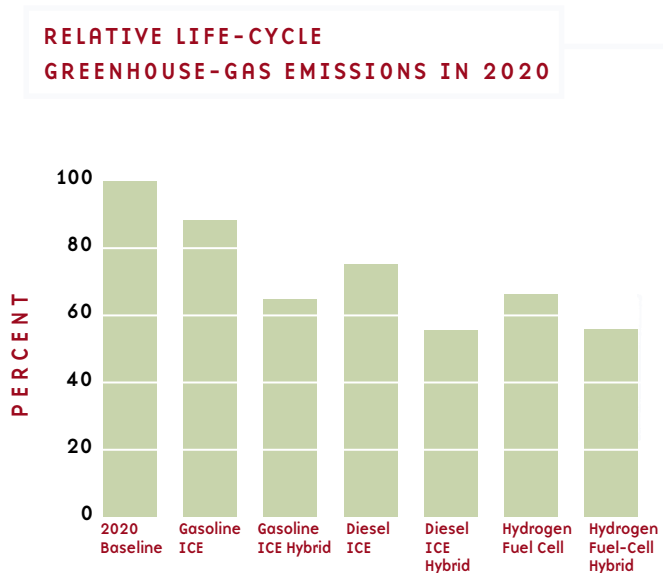
Gasoline and diesel hybrids reduce carbon emissions by 27 and 36 percent, respectively, compared with an advanced conventional vehicle in 2020 (which itself is 37 percent better than today's conventional vehicle). Second, MIT projects that gasoline and diesel hybrids will equal or better hydrogen fuel-cells as a carbon-reduction strategy in 2020.¹³ This assumes the hydrogen is supplied by re-forming natural gas—the most likely near-term fuel source. If the hydrogen fuel is produced from cleaner, but more expensive, renewable-energy resources, it would virtually eliminate greenhouse-gas emissions.

DRIVING PERFORMANCE

Hybrid technology is advancing rapidly, heralding an end to the debate that greening the fleet will involve any sacrifices in safety or performance. The second-generation Toyota Prius hybrid, for example, is larger, faster, more efficient, and cleaner than the first model—at the same price. It's classified as a midsize sedan, the most popular car segment in the United States. It has also improved its acceleration from zero to 60 miles per hour by two seconds, and it gets an Environmental Protection Agency (EPA) rating of 60 mpg in city driving compared with 50 mpg for the old Prius. This performance led *Motor Trend* magazine to select the new Prius as the 2004 Car of the Year:

“We realize the selection of a hybrid vehicle is going to stir controversy, but we believe the performance, engineering advancements, and overall significance of the Toyota Prius merits the distinction of *Motor Trend's* Car of the Year,” said Kevin Smith, editor-in-chief of *Motor Trend*. “The Prius is a capable, comfortable, fun-to-drive car that just happens to get spectacular fuel economy. It also provides a promising look at a future where extreme fuel-efficiency, ultra-low emissions, and exceptional performance will happily coexist. That makes it meaningful to a wide range of car buyers.”¹⁴

FIGURE 4



This figure compares cradle-to-grave greenhouse-gas emissions for various vehicle platforms. The baseline 2020 vehicle is a gasoline internal combustion engine (ICE) which is 37% more efficient than today's vehicles.

Source: Massachusetts Institute of Technology



HYBRID CARS ARE AS SAFE OR SAFER THAN THE CONVENTIONAL MODELS THEY ARE BASED ON.



YES, YOU CAN BURN RUBBER.

THE ELECTRIC MOTOR PROVIDES INSTANT TORQUE WHICH MEANS FAST ACCELERATION.

Numerous announcements at the January 2004 Detroit Auto Show back *Motor Trend's* contention that hybrids offer fuel efficiency, low emissions, and exceptional performance. Midsize sedans, sport-utility vehicles, minivans, and station wagons with exceptional performance will be available in 2004 and 2005.

CARS

☞ Honda will offer a V-6 hybrid on its best-selling car, the Accord, in late 2004. Honda expects the hybrid's acceleration performance to surpass that of the 240 horsepower non-hybrid Accord. Honda claims its fuel economy and emissions profile will be that of a four-cylinder Honda Civic, with an mpg rating somewhere in the high 30s.

SUVS

☞ Ford's Escape hybrid is expected on showroom floors in late 2004. Available in four-wheel drive, it combines a four-cylinder engine with a 65-kilowatt electric motor. Ford expects 35 to 40 mpg in city driving with an acceleration performance similar to the V-6 non-hybrid Escape. Ford also claims a 50 percent reduction in carbon emissions in city driving.¹⁵

☞ Lexus, the luxury division of Toyota, showed off the production version of the RX 330 hybrid sport-utility vehicle. Dubbed the RX 400h, it will be available in late 2004. This four-wheel-drive SUV is powered by a V-6 gasoline engine and electric motor; seats five passengers; and will deliver 270 horsepower, 20 percent more than the non-hybrid RX 330. According to the Lexus group vice president Denny Clements, fuel economy will be "significantly better than the current EPA average for a four-cylinder sedan" (currently 27.6 mpg). And, he said, "We believe the RX 400h will exceed the expectations of luxury-vehicle buyers and establish a premium market for performance-oriented, fuel-efficient gas-electric hybrids."¹⁶

☞ Toyota announced it will produce the seven-passenger Highlander hybrid SUV, aiming for introduction in early 2005. It will use a V-6 hybrid platform similar to that on the RX 400h, but specially designed for heavier loads. Toyota claims the Highlander hybrid will accelerate faster than its non-hybrid cousin, offer the best fuel economy in the midsize SUV class, and meet the most stringent California and national emissions standards.¹⁷



MINIVANS

☞ Toyota offers two minivan hybrids in the Japanese market but has yet to announce plans to sell these in the United States. Toyota's Estima hybrid minivan seats up to seven. Sold in Japan since 2001, the Estima hybrid was upgraded in 2003 with new styling, better acceleration, and improved fuel efficiency. The Estima now gets nearly 44 mpg.¹⁸ The Toyota Alphard hybrid minivan is an eight-passenger, four-wheel-drive vehicle introduced in July 2003. The Alphard, which gets 40 mpg on the Japanese test cycle, also generates up to 1500 watts of AC power (either moving or stationary), allowing owners to plug in small appliances or power tools.¹⁹ The Alphard hybrid also qualifies as an ultra-low-emission vehicle achieving emission levels 75 percent lower than Japan's 2000 standards.

It's notable as well that Nissan and Ford are licensing Toyota's Hybrid Synergy Drive for use in their own hybrids. Also, Subaru and Mitsubishi showed hybrid concepts at the 2004 Detroit Auto Show and Mercedes is touting a diesel hybrid station wagon—the Vision Grand Sport Tourer—for 2005 release in Europe.

SALES PROJECTIONS

Since their introduction to the United States in 1999, more than 120,000 hybrids have been sold. The Prius accounts for half that number, with the Honda Civic hybrid coming up fast with 28,000 in cumulative sales since 2002. **SEE FIGURE 5**

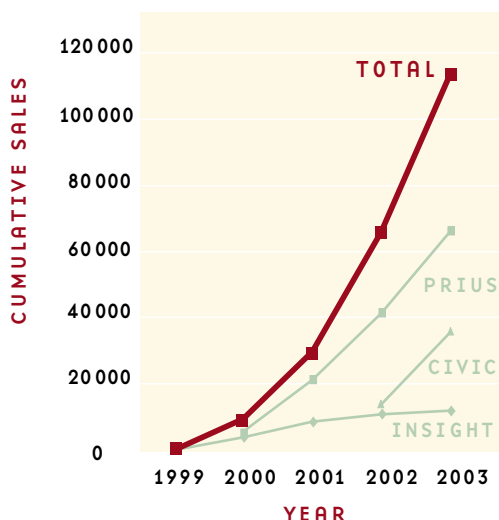
Hybrid sales are growing in the 2004 model year. Hybrid manufacturers set moderate goals and appear to be exceeding them: Toyota planned to produce 36,000 units for U.S. sales but boosted production to 47,000—a 31 percent increase—after brisk fall 2003 sales.²⁰ The 2004 Civic is also beating initial sales projections of 2,000 per month. To put those numbers in perspective, Ford sells 900,000 F-150 pick-up trucks per year.

The rate of growth in sales is impressive, but hybrids have a long way to go before they become a significant share of the market. J. D. Power and Associates' recent report, "2003 Hybrid Electric Vehicle Outlook: Third Quarter," estimated hybrid vehicle sales in U.S. markets of 177,000 by 2005 and 350,000 by 2008, about one and two percent, respectively, of the projected U.S. passenger-vehicle market in those years.²¹ Most auto industry analysts, while touting the exciting technological leap represented by hybrids, simultaneously point out that fuel economy remains a low priority for American car buyers, potentially relegating the hybrid market to a limited set of green-minded early adopters.

As outlined in the next section, policy, not consumer choice, has been, and will remain for some time, the most important driving force in the transformation of the United States and, ultimately, global automobile fleet.

FIGURE 5

HYBRIDS ON THE ROAD



BEST PRACTICE POLICIES TO ACCELERATE HYBRID SALES

Two major forces will shape automobile technology for the next quarter century: (1) the economic risks of oil dependence and (2) the preservation of public goods—primarily clean air and the reduction of global warming. Economists agree that the value of those important public goods is not captured in today's energy prices. Drivers do not pay the full costs of using the air as a free dumping ground for tailpipe emissions, whether those costs come in the form of health care from increased respiratory disease, decreases in agricultural productivity, or droughts related to climate change. Economists disagree, however, on the appropriate approach to deal with this misuse of public goods. The theoretically most efficient approach is to adjust prices, through gasoline or carbon taxes, so consumers across the economy can make more rational choices. Capping emissions and trading emission allowances is also a theoretically sound approach. It creates a *de facto* tax (the price of an emissions credit), and it has the advantage of certainty in reducing emissions.

Both are laudable approaches that should be pursued in the United States as they are in Europe. The cap-and-trade approach is used to control acid-rain emissions in the United States. It is also the central element of the McCain-Lieberman proposal in the Senate to control global-warming emissions. Unfortunately, promising as McCain-Lieberman is for creating a framework to reduce carbon emissions, it would have little immediate impact on the passenger-vehicle fleet. Leading model policies discuss carbon controls equivalent to, at best, \$25 to \$50 per ton of carbon. The consequent price impacts on gasoline are, respectively, 6 cents and 12 cents per gallon. There is no historical evidence that these kinds of price increases significantly alter consumer choices of automobiles.²² Europe has gasoline taxes 25 times higher than these and only marginally better fleet-fuel economy—which is why the European Union negotiated a voluntary carbon standard for its automobile fleet (see the next section). In the U.S. market, the fluctuation in the price of a gallon of gas in the last five years—over 70 cents—dwarfs even the most optimistic scenario of future carbon taxes.²³

Of course, any price signal in the right direction can be helpful. But it should be part of a more comprehensive package of policies to accelerate the technological transformation of the world automobile fleet. A handful of policies have been the primary motivation for new automobile technology so far; we expect the same to hold true in the future. The most promising of these policies are:



① HEALTH-BASED AIR-EMISSIONS STANDARDS

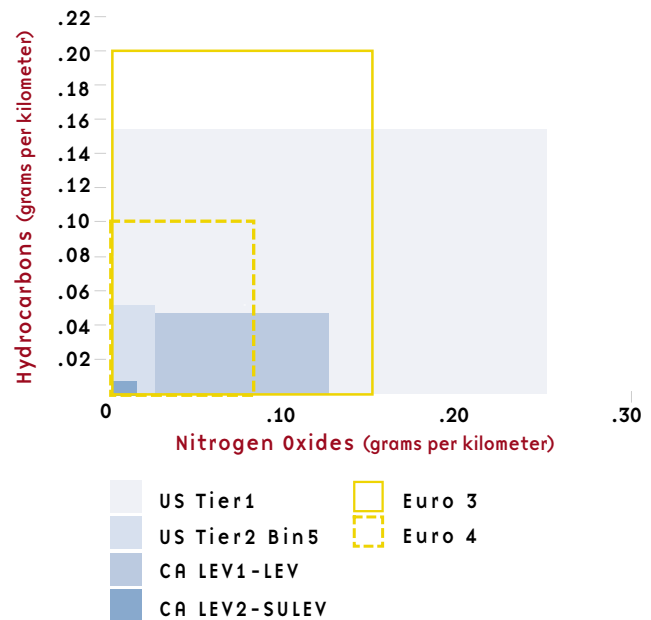
To date, such standards have been the single most effective spur for investments in advanced-technology vehicles, particularly hybrids and fuel cells. California pioneered this approach in response to worsening smog in Los Angeles. The United States, the European Union, and Japan all use this approach, and as the figure below shows, the regulations have driven amazing improvements in emissions performance—today’s new cars are up to 10 times cleaner for nitrogen oxides than the average car they replace. **SEE FIGURE 6**

One component of California’s regulation, the zero-emission vehicle (ZEV) rule, has been especially effective at moving hybrids toward commercial reality. It is the only program in the world requiring automakers to produce advanced electric-drive vehicles such as hybrids. In 1990, California Air Resources Board set a goal that zero-emission vehicles would make up at least 2 percent of new car sales by 1998, 5 percent by 2001, and 10 percent by 2003. The intent was to spur battery-electric vehicles, which have zero local emissions, and fuel-cell vehicles that produce only water as exhaust. While pure battery electrics fell short of expectations over the last decade, the program spurred a revolution in electric-drive automotive technology, ultimately accelerating the commercialization of hybrids and jump-starting

the development of fuel-cell vehicles. While California prepares for the introduction of fuel-cell vehicles, the program is pulling forward tens of thousands of hybrids through its advanced technology partial zero-emission vehicle (AT-PZEV) requirements. The figure on the next page shows the hybrid and fuel-cell targets from the ZEV rule in California. Notably, New York, Massachusetts, and New Jersey have adopted the California ZEV rule. Together, these four states constitute 25 percent of the North American passenger-vehicle market. **SEE FIGURE 7**

FIGURE 6

DOWNWARD TREND IN EMISSIONS STANDARDS



The area of each rectangle represents emissions per vehicle.



**YES, IT CAN CARRY YOUR FAMILY
AND YOUR STUFF.**

**HYBRID SUVs, VANS, WAGONS, AND EVEN TRUCKS ARE COMING SOON. LEXUS AND FORD PLAN TO
OFFER 4WD HYBRID SUVs LATER THIS YEAR.**

A blue car navigation device is centered in the image. The screen displays a map with a red line indicating a route. A red rectangular text box is overlaid on the screen, containing the text "YES, IT'S LOADED WITH COOL FEATURES." Below the screen, there are three buttons: "ODO TRIP" on the left, a red triangle warning icon in the center, and "km/h MPH" on the right. The background is a light green color with faint white line art patterns of a car's engine and chassis.

YES, IT'S LOADED WITH COOL FEATURES.

HYBRIDS HAVE ALL THE LATEST AMENITIES, FROM TOUCH-SCREEN CONTROLS TO AUTOMATIC CLIMATE CONTROL TO GLOBAL POSITIONING SYSTEMS.

② CONTROLS ON GLOBAL-WARMING EMISSIONS FROM AUTOMOBILES

The European automobile industry has agreed to meet voluntary carbon requirements of 140 grams of carbon dioxide per kilometer by 2008, and negotiations are under way around a voluntary target of 120 grams per kilometer by 2012. From 1995 to 2002, European carbon-dioxide emissions per kilometer have dropped from 186 to 166 grams—about 11 percent. Manufacturers appear to be on track to make the 2008 goal, although much of the progress so far is from sales of diesel vehicles, which are more efficient than gasoline engines but have been discouraged, at least in the United States, because of their poor emissions performance. Hybrids, particularly diesel hybrids, may be one of the means manufacturers use to meet the more stringent 2012 goals.

California Assembly Bill 1493 (Pavley) requires the California Air Resources Board (CARB) to develop a plan by 2005 to achieve a “maximum feasible cost-effective reduction” in emissions of carbon dioxide from cars and light trucks. The regulation would take effect in 2006 and apply to the 2009 model year. The bill prohibits CARB from proposing mandatory trip-reduction measures; imposing additional fees and taxes; or banning the sale of any vehicle category, including sport-utility and light-duty trucks. These regulations will not mandate a particular technology, but hybrids are a clear front-runner because of their solid performance and dramatic greenhouse-gas reductions. These rules face legal and regulatory challenges, but if California adopts them, so might other states, creating significant market pressure for low-carbon vehicles.

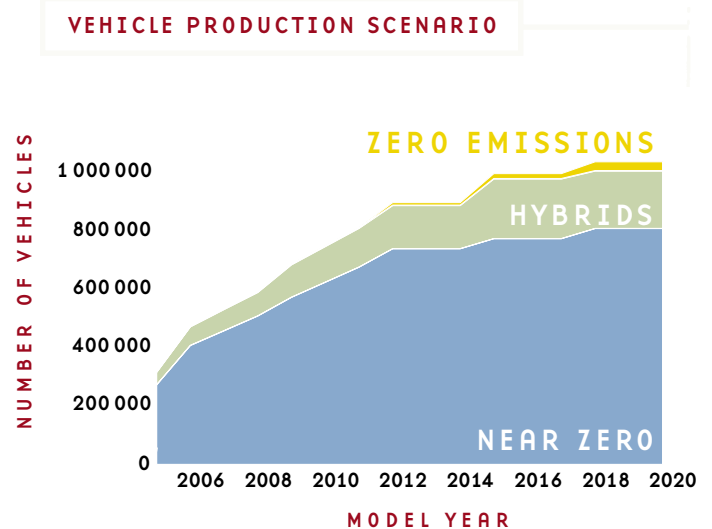
③ CUSTOMER TAX CREDITS AND INCENTIVES

The United States and Japan offer tax credits and consumer incentives to stimulate early markets for hybrids. In the United States, hybrid buyers can take a onetime \$2,000 clean-fuel vehicle tax deduction, about \$800 in tax savings. The recent omnibus Energy Bill, now stalled in Congress, included a tax credit of \$2,000 to \$2,500 for vehicles with Prius-like performance. Since 1998, Japan has offered incentives to hybrid purchasers of about \$2,300. Japan subsidized 31,000 hybrids from 1998 to 2001.²⁴

④ STATE FLEET PURCHASE REQUIREMENTS

In Massachusetts, a new executive order by Republican governor Mitt Romney requires that the state purchase the most efficient and the best-value vehicles. Since most of the state needs are for cruisers and pick-up trucks (used in highway and park clean-up, for example), the state sets a floor of 20 mpg (EPA city) and requires that emissions meet California Ultra-Low-Emission Vehicle (ULEV) standards. This pushes state purchasing toward the most efficient and cleanest trucks and large cars in their respective classes. The rule also requires that the purchase of SUVs and four-wheel-drive vehicles must be justified by need; otherwise more efficient vehicles are to be purchased.

FIGURE 7



Source: California Air Resources Board

California has a similar approach, codified in California Senate Bill 552. By January 1, 2005, the California Energy Commission and the State Air Resources Board are required to develop and adopt specifications and standards for all passenger cars and light-duty trucks that are purchased or leased by state offices, agencies, and departments. State vehicle managers will be required to:

- ⇒ Buy vehicles that meet ULEV II by 2006 for cars and by 2008 for trucks,
- ⇒ Select the vehicles with the lowest life-cycle cost, including fuel use and emissions,
- ⇒ Maximize the purchase of hybrid or “best in class” vehicles,
- ⇒ Purchase SUVs or four-wheel-drive vehicles only if their use is justified,
- ⇒ Use alternative-fuel vehicles whenever possible.

MISSING: INCENTIVES FOR U.S. MANUFACTURERS

All of the policies above help accelerate the introduction of the hybrid and other advanced transportation technologies. The irony is that while experts credit the California zero-emission vehicle rules as being the primary stimulus for adopting hybrids, the Japanese are already the clear leaders in hybrid design and production. As the Japanese government did, so too should U.S. policy-makers consider incentives for U.S. manufacturers to produce leading-edge hybrid technology vehicles. Such incentives could take the form of loans, tax credits, accelerated depreciation, or other measures designed to encourage investment in the research, design, and retooling needed to lead emerging hybrid-vehicle markets.

CONCLUSION

A recent editorial in the *Economist*, “The End of the Oil Age,” captured the growing recognition, acknowledged by much of the oil industry, that it is not a matter of whether the world will run out of oil, but when.²⁵ Before the world runs out of fossil fuels, however, we will exhaust our capacity to bear the health and environmental costs of the rapidly growing world automobile fleet.

Fortunately, we need not waste breath on the tired “economic growth versus environment” debate. This essay argues that tomorrow’s fleet can provide mobility with huge reductions in fuel use and emissions. Hybrids, the first fundamental leap in propulsion technology since the advent of the internal combustion engine, are an obvious high-performance, low-emission path. The electric drivetrains, battery packs, and controls of this new technology are in production, and the vehicles are meeting with market success. Their further development and increased production will reduce their cost and improve their performance, all of which eases the way for the next phase of the automobile technology revolution: hydrogen-powered fuel-cell vehicles whose local emissions are zero.

Hybrids show great promise, but their benefits depend on rapid penetration into world automobile markets. Sensible new policies can spur hybrid sales with benefits to consumers and to the environment. This technology transformation must happen in the next quarter century—the economic and environmental pressures are too great to ignore. The remaining question is, which countries and which manufacturers will be the leaders and which will be the laggards in the coming technology revolution?



HYBRID CAR BUYERS GUIDE

CARS



TOYOTA PRIUS **AVAILABLE NOW**
WWW.TOYOTA.COM/PRIUS/



HONDA CIVIC **AVAILABLE NOW**
WWW.HONDACARS.COM/MODELS/MODEL_OVERVIEW.ASP?MODELNAME=CIVIC+HYBRID



HONDA INSIGHT **AVAILABLE NOW**
WWW.HONDACARS.COM/MODELS/MODEL_OVERVIEW.ASP?MODELNAME=INSIGHT



HONDA ACCORD
AVAILABLE LATE 2004

SUVS



FORD ESCAPE **AVAILABLE FALL 2004**
WWW.FORDVEHICLES.COM/ESCAPEHYBRID/FRAMESET.ASP



LEXUS RX HYBRID
AVAILABLE FALL 2004
WWW.LEXUS.COM/ABOUT/HYBRID/INDEX.HTML



TOYOTA HIGHLANDER
AVAILABLE EARLY 2005
WWW.TOYOTA.COM/VEHICLES/2004/HIGHLANDER/MINISITE/INDEX.HTML

VANS / WAGONS



TOYOTA ESTIMA
AVAILABLE IN JAPAN ONLY



MERCEDES VISION GRAND
SPORT TOURER
AVAILABLE MID 2005 IN EUROPE
WWW.MBUSA.COM/MICROSITE/GST

SIX FACTS ABOUT HYBRIDS

① YES, IT HAS A GAS CAP.

But you won't need to use it as often. A new Prius, for instance, averages 600 miles between fill-ups.

② YES, IT'S ELECTRIC, BUT YOU DON'T PLUG IT IN.

The battery in a hybrid car charges automatically while you drive and while you brake.

③ YES, IT'S SAFE.

Hybrid cars are as safe or safer than the conventional models they are based on.

④ YES, YOU CAN BURN RUBBER.

The electric motor provides instant torque, which means fast acceleration.

⑤ YES, IT CAN CARRY YOUR FAMILY AND YOUR STUFF.

Hybrid SUVs, vans, wagons, and even trucks are coming soon. Lexus and Ford plan to offer 4WD Hybrid SUVs later this year.

⑥ YES, IT'S LOADED WITH COOL FEATURES.

Hybrids have all the latest amenities, from touch-screen controls to automatic climate controls to global positioning systems.



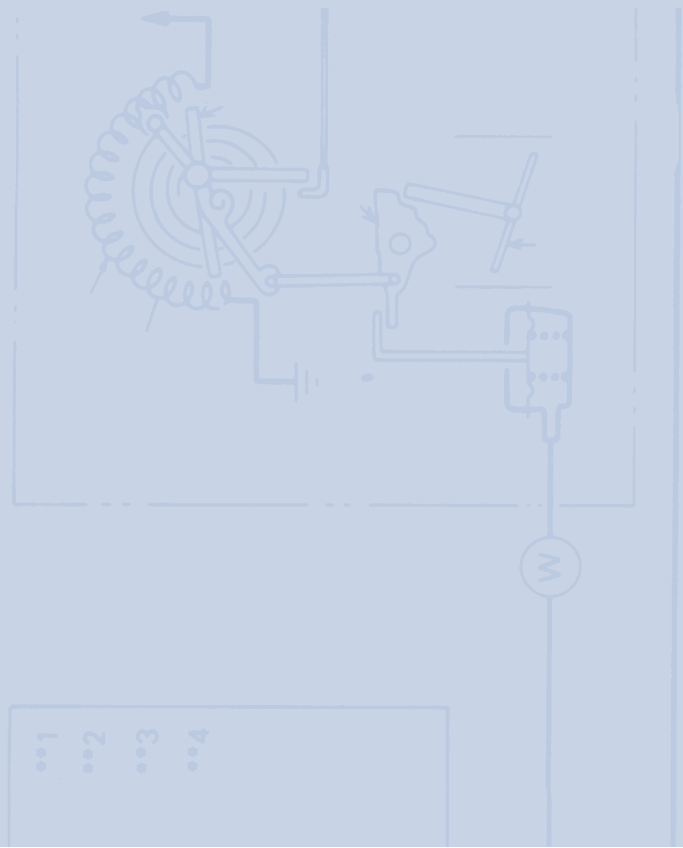
FOOTNOTES

- 1 Special thanks to Charlotte Pera, Michael Wang, Michael Walsh, Roland Hwang, David Friedman, Hal Harvey, Jim Lents, and James Cannon for their valuable comments and advice.
- 2 Source: Tsinghua University.
- 3 Burns, Lawrence D., et al., “Vehicle of Change,” *Scientific American*, October 2002, vol. 287, no. 4, pp. 64–73.
- 4 U.S. Department of Energy, *Transportation Energy Data Book*, Edition 19, 1999, Table 4.1.
- 5 See New Ideas in Pollution Regulation, “Clear Water, Blue Skies: China’s Environment in the New Century,” a summary of the environment section of the World Bank’s China 2020 report, www.worldbank.org/nipr/china/clrwt-sum.htm.
- 6 Energy Information Administration, *Annual Energy Outlook 2004*, early release, available at www.eia.doe.gov/oiaf/aeol/.
- 7 Includes the production and consumption of gasoline in passenger vehicles. Each gallon of gasoline emits about 19 pounds of carbon dioxide, and the production and delivery of each gallon adds another 5 pounds of global-warming pollutants.
- 8 National Research Council, “Effectiveness and Impact of Corporate Average Fuel Economy Standards,” 2002, available at www.nap.edu/books/0309076013/html.
- 9 Doniger, David, et al., *Dangerous Addiction: Ending America’s Oil Dependence*, Natural Resources Defense Council and the Union of Concerned Scientists, January 2002, available at www.nrdc.org/air/transportation/oilsecurity/securityinx.asp.
- 10 For references on technological “stepping-stones,” see Lipman, Timothy E., and Roland Hwang, “Hybrid Electric and Fuel Cell Vehicle Technological Innovation: Hybrid and Zero-Emission Vehicle Technology Links,” paper presented at the 20th International Electric Vehicle Symposium and Exposition, Long Beach, Calif., November 15–19, 2003; DeCicco, John M., “Fuel Cell Vehicles: Technology, Market, and Policy Issues,” Society of Automotive Engineers, Warrendale, Pa., 2001; Owen, Nick, and Richard Gordon, 2002, “‘Carbon to Hydrogen’ Roadmaps for Passenger Cars: A Study for the Department for Transport and the Department of Trade and Industry,” a report produced by Ricardo Consulting Engineers Ltd., Sussex, United Kingdom, November 8, 2002.
- 11 Another key factor is aerodynamic drag, which is much higher at highway speeds, requiring more fuel to power a vehicle.
- 12 Heywood, John B., et al., “The Performance of Future ICE and Fuel Cell Powered Vehicles and Their Potential Fleet Impact,” MIT Laboratory for Energy and Environment, Pub. LFEE 2003-004 RP, December 2003, available at <http://lfee.mit.edu/publications/>.
- 13 While historically diesel technologies have been extremely “dirty” with regard to nitrogen oxide and particulate emissions, advanced controls are emerging that can substantially eliminate these problems so long as policies are adopted to ensure their use.
- 14 *Motor Trend Magazine*, November 2003.
- 15 “Ford Points to a Strong Future with New Escape Hybrid SUV,” *Automotive Intelligence News*, April 16, 2003; available at www.autointell-news.com/News-2003/April-2003/April-2003-3/April-16-03-p5.htm.
- 16 In Job, Ann, “Hybrid Highlights of NAIAS,” available at <http://autoshow.msn.com/as/autoshow2004/article.aspx?xml=Hybrids&shw=autoshow2004>. By comparison, the 2004 Lexus 330 (a non-hybrid) gets 20 mpg in the city and 26 mpg on the highway. The second Clements quote can be found in “2004 Detroit Auto Show: Lexus Introduces RX 400h, World’s First Luxury Hybrid SUV,” on the Auto Channel Web site, www.theautochannel.com/F/news/2004/01/06/175961.html.
- 17 California’s super ultra-low-emission vehicle (SULEV) standard and federal tier 2, bin 2 standards.
- 18 The Estima achieved 18.6 km/litre in the 10–15 Japanese test cycle.
- 19 The Alphard achieved 17.2 km/litre in the 10–15 Japanese test cycle.
- 20 “Toyota Prius Hybrid Production Increased by 31 Percent for U.S. Market,” available at www.toyota.com/about/news/product/2003/12/08-1-Prius-Production.html.
- 21 As quoted in *Hybrid Vehicles*, December 2003, vol. 5, no. 6, p. 1.
- 22 Graham, Daniel J., and Stephen Glaister, “The Demand for Automobile Fuel: A Survey of Elasticities,” *Journal of Transport Economics and Policy*, January 2002, vol. 36, part 1, pp. 1–26.
- 23 Energy Information Administration, “Retail Gasoline Historical Prices,” available at www.eia.doe.gov/oil_gas/petroleum/data_publications/wrgp/mogas_history.html.
- 24 Takeishi, Tetsuo, and Shoji Tange, “The Incentive Project for the Purchase of Electric Vehicles and Hybrid Vehicles in Japan (Part 4),” paper presented at the 19th International Battery, Hybrid, and Fuel Cell Electric Vehicle Symposium, October 19–23, 2002, Bexco, Busan, Korea.
- 25 *Economist*, October 25–31, 2003, vol. 369, no. 8347, p. 11.

PROGRAMS AND GRANTS

The Energy Foundation awards grants and takes direct initiatives in the electric power, buildings, transportation, climate, and national policy and analysis sectors. In partnership with the Packard Foundation and the Hewlett Foundation, it administers the China Sustainable Energy Program. The foundation's geographic focus is the United States and China.

In this section, the programs are described and illustrated with the grants given in the past three years.



BUILDINGS

The Energy Foundation will support policies to increase the efficiency of U.S. homes and businesses, reducing global-warming emissions and saving consumer dollars.

Buildings account for about one-third of U.S. energy use. New technologies make efficiency opportunities in this sector particularly compelling. Compact fluorescents, now available in every size and shape, produce the same light output with one-third of the energy use. Efficient windows with special coatings let in light, but not summer heat, reducing air conditioning costs. Refrigerators today are larger, have more features, but use one-third of the energy of 1970s models.

Appliance efficiency standards offer large carbon reductions at low cost. Existing national standards will reduce U.S. electricity use by 8 percent in 2020 (helping us avoid constructing 400 fossil-fuel power plants), and save \$186 billion through 2030. Standards on 13 new appliances and equipment can reduce our residential and commercial electricity use by another 6 percent and save \$75 billion by 2020, with a benefit to cost ratio of 5-to-1.

Numerous states still lack basic requirements on home and office buildings to ensure quality construction, avoid unnecessary energy waste, and cut air pollution, even though energy codes save consumers money. Advanced model codes, such as the International Energy Conservation Code 2000, raises average building efficiency by 20 percent over 1995 levels. Other voluntary tools, such as advanced-building guidelines, can cut energy use 30 to 50 percent and build markets for superior technologies. Appliance standards and building codes are cost-effective, near-term means to avoid power crises and simultaneously advance the United States as a global leader in advanced technologies.

The foundation is particularly interested in efforts to:

- establish stringent state and national appliance and equipment standards;
- adopt robust building energy codes; and
- create market-pull initiatives that bring super-efficient appliances and equipment and high-performance buildings into the market.

ALLIANCE TO SAVE ENERGY Building Codes Assistance Project

1200 18th Street, NW, Suite 900

Washington, DC 20036

PHONE: 202-530-2200

WEBSITE: www.bcap-energy.org

2003 AMOUNT: \$235,000 DURATION: One year

To promote the energy, environmental, and economic benefits of robust energy-efficiency codes for new construction.

2002 AMOUNT: \$200,000 DURATION: Six months

To assist states in review and adoption of stringent building energy codes that reap high energy, economic, and air-quality benefits.

2001 AMOUNT: \$200,000 DURATION: One year

To continue support for the Building Code Assistance Project's work to accelerate state adoption of building energy codes.

ALLIANCE TO SAVE ENERGY

1200 18th Street, NW, Suite 900

Washington, DC 20036

PHONE: 202-857-0666

EMAIL: info@ase.org

WEBSITE: www.ase.org

2002 AMOUNT: \$160,000 DURATION: Two years

To build national stakeholder- and media-awareness of the substantial benefits of appliance-efficiency standards, stringent building energy codes, and market-pull programs.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801

Washington, DC 20036

PHONE: 202-429-8873

EMAIL: info@aceee.org

WEBSITE: www.aceee.org

2003 AMOUNT: \$5,000 DURATION: Four months

To conduct market research and technical analysis on the potential for energy efficiency in television converters.

2003 AMOUNT: \$10,000 DURATION: Four months

To promote the economic and energy benefits of state appliance-efficiency standards in Maryland.

2002 AMOUNT: \$40,000 DURATION: Six months

To analyze Michigan's energy savings potential from building-efficiency standards, state purchasing policies for efficient equipment, and public clean-energy investments, and to educate local decision-makers on their benefits.

2002 AMOUNT: \$180,000 DURATION: Two years

To support ACEEE's work to advance appliance-efficiency standards, building energy codes, and national market-pull programs.

2001 AMOUNT: \$20,000 DURATION: One year

To support ACEEE's analysis of existing state legislation to provide financial incentives for energy-efficiency investments.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

Appliance Standards Awareness Project

1001 Connecticut Avenue, NW, Suite 801

Washington, DC 20036

PHONE: 617-363-9470

WEBSITE: www.standardsasap.org

2002 AMOUNT: \$500,000 DURATION: Two years

To promote appliance and equipment efficiency standards as a primary means to cut carbon emissions and save energy at a net economic benefit.

2001 AMOUNT: \$250,000 DURATION: One year

To build state and national media and stakeholder awareness of the economic and environmental benefits of appliance-efficiency standards.

2001 AMOUNT: \$75,000 DURATION: Six months

To support additional work to build national media and stakeholder awareness of the economic and environmental benefits of national appliance-efficiency standards.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

Southwest Energy-Efficiency Project

1001 Connecticut Avenue, NW, Suite 801

Washington, DC 20036

PHONE: 303-447-0078

WEBSITE: www.swenergy.org

2001 AMOUNT: \$400,000 DURATION: Two years

To develop and promote a broad range of residential, commercial, and industrial energy-efficiency policies in six western intermountain states.

CENTER FOR PUBLIC INTEREST RESEARCH, INC.

29 Temple Place

Boston, MA 02111

PHONE: 617-292-4800

2003 AMOUNT: \$164,000 DURATION: One year

To urge northeast states to adopt minimum energy-efficiency standards on appliances and equipment that will improve energy reliability and decrease air pollution.

2002 AMOUNT: \$103,000 DURATION: Nine months

To provide analyzes and other introductory materials on the substantial state and regional benefits of state appliance standards to local stakeholders in eight northeast states.

ENVIRONMENT NORTHEAST

P.O. Box 313

Eight Summer Street

Rockport, ME 04856-0313

PHONE: 207-236-6470

EMAIL: admin@env-ne.org

WEBSITE: www.env-ne.org

2003 AMOUNT: \$15,000 DURATION: One year

To urge northeast states to adopt minimum energy-efficiency standards on appliances and equipment that will improve energy reliability and decrease air pollution.

2002 AMOUNT: \$17,000 DURATION: Nine months

To promote the benefits of state-focused appliance-efficiency standards as a means to reduce carbon emissions in Massachusetts, Connecticut, New Hampshire, and Maine.

ENVIRONMENTAL LAW AND POLICY CENTER OF THE MIDWEST

35 East Wacker Drive, Suite 1300

Chicago, IL 60601

PHONE: 312-673-6500

WEBSITE: www.elpc.org

2003 AMOUNT: \$70,000 DURATION: One year

To educate builders, consumers, and other stakeholders of the economic, energy, and air-quality benefits of a state-wide building energy code in Illinois.

2002 AMOUNT: \$70,000 DURATION: One year

To educate builders, consumers, and other stakeholders of the economic, energy, and air-quality benefits of a state-wide building energy code in Illinois.

FLORIDA PUBLIC INTEREST FOUNDATION

435 East Washington Street

Monticello, FL 32344

PHONE: 850-997-1341

2002 AMOUNT: \$17,000 DURATION: One year

To promote for the adoption and implementation of appliance-efficiency standards for Florida.

FLORIDA PUBLIC INTEREST RESEARCH EDUCATION FUND, INC.

704 West Madison Street

Tallahassee, FL 32304

PHONE: 850-224-3321

EMAIL: FloridaPIRG@pirg.org

2003 AMOUNT: \$30,000 DURATION: One year

To promote the economic, energy, and environmental benefits of state-level appliance-efficiency requirements in Florida.

2002 AMOUNT: \$35,000 DURATION: One year

To provide information on the energy, environmental, and economic benefits of state-based appliance-efficiency standards in Florida.

MIDWEST ENERGY-EFFICIENCY ALLIANCE

One East Erie, Suite 200

Chicago, IL 60611

PHONE: 312-587-8390

WEBSITE: www.mwalliance.org

2003 AMOUNT: \$10,000 DURATION: One year

To educate policymakers and the media on the benefits of adopting IECC codes in Michigan.

2001 AMOUNT: \$75,000 DURATION: One year

To coordinate market transformation programs in seven midwest states, including Illinois, Ohio, Indiana, Iowa, Michigan, Minnesota, and Wisconsin.

NATIONAL CONSUMER LAW CENTER, INC.

77 Summer Street, 10th Floor

Boston, MA 02110-1006

PHONE: 617-542-8010

EMAIL: consumerlaw@nclc.org

WEBSITE: www.NCLC.org

2003 AMOUNT: \$10,000 DURATION: One year

To promote the economic and energy benefits of state appliance-efficiency standards for low-income communities in the Northeast.

2002 AMOUNT: \$8,000 DURATION: One year

To intervene on behalf of low-income and consumer groups in a seven-state lawsuit that challenges DOE's rollback of a stringent new air-conditioner standard.

NATURAL RESOURCES DEFENSE COUNCIL, INC.

40 West 20th Street

New York, NY 10011

PHONE: 212-727-2700

EMAIL: nrdcinfo@nrdc.org

WEBSITE: www.nrdc.org

2003 AMOUNT: \$10,000 DURATION: Four months

To educate the public and policymakers on the economic and energy benefits of appliance-efficiency standards in Maryland.

2003 AMOUNT: \$30,000 DURATION: Nine months

To conduct technical research and outreach with stakeholders on the means to improve the energy efficiency of power supplies.

2003 AMOUNT: \$10,000 DURATION: Six months

To increase education for policymakers and stakeholders on the design and impacts of tax incentives for energy efficient buildings and equipment.

2003 AMOUNT: \$40,000 DURATION: One year

To urge northeast states to adopt minimum energy-efficiency standards on appliances and equipment that will improve energy reliability and decrease air pollution.

2002 AMOUNT: \$30,000 DURATION: One year

To convene stakeholders in New York State to review new analyzes of the energy, economic, and environmental benefits of state appliance-efficiency standards.

2002 AMOUNT: \$150,000 DURATION: Two years

To study and recommend policies that can reinforce the effectiveness of residential and commercial building codes.

NEW BUILDINGS INSTITUTE, INC.

P.O. Box 653

142 East Jewett Boulevard

White Salmon, WA 98672

PHONE: 509-493-4468

WEBSITE: www.newbuildings.org

2002 AMOUNT: \$100,000 DURATION: One year

To recommend modifications to national model-energy codes that will improve the energy-efficiency performance of U.S. buildings.

2001 AMOUNT: \$125,000 DURATION: One year

To advance model building energy codes in progressive states.

2001 AMOUNT: \$30,000 DURATION: Six months

To develop and promote increasingly stringent commercial model-energy codes that improve building efficiency.

NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS, INC.

Five Militia Drive
Lexington, MA 02421
PHONE: 781-860-9177

WEBSITE: www.neep.org

2003 AMOUNT: \$35,000 DURATION: One year

To urge northeast states to adopt minimum energy-efficiency standards on appliances and equipment that will improve energy reliability and decrease air pollution.

2001 AMOUNT: \$80,000 DURATION: One year

To form a working group of northeast states interested in advancing appliance-efficiency standards.

2001 AMOUNT: \$30,500 DURATION: Six months

To form a working group of northeast states interested in designing state-based appliance-efficiency standards.

PUBLIC CITIZEN FOUNDATION

Public Citizen

215 Pennsylvania Avenue, SE
Washington, DC 20003

PHONE: 512-477-1155

EMAIL: public_citizen@citizen.org

WEBSITE: www.citizen.org

2001 AMOUNT: \$100,000 DURATION: One year

To promote more efficient building energy codes and high-efficiency appliances in Texas through public and policymaker education.

SOUTHERN ALLIANCE FOR CLEAN ENERGY

P.O. Box 1842
Knoxville, TN 37901-1842

PHONE: 865-637-6055

EMAIL: sasmith@tngreen.com

WEBSITE: www.cleanenergy.org

2002 AMOUNT: \$33,000 DURATION: One year

To provide information on the energy, environmental, and economic benefits of state-based appliance-efficiency standards in Florida.

ELECTRIC POWER

The Energy Foundation works to reduce carbon emissions from the electric and gas utility industry by advancing energy efficiency and renewable energy. We primarily focus on state and regional opportunities.

Power generation by electric utilities in the United States takes a severe toll on the environment. U.S. power plants discharge nearly three-quarters of the country's acid rain emissions (sulfur dioxide), over one-third of its greenhouse-gas emissions (carbon dioxide), one-third of its smog emissions (nitrogen oxide), one-third of its particulate matter, half of its nuclear waste, and one-quarter of its toxic heavy metals.

Renewable energy technologies, such as wind, geothermal, photovoltaic, and biomass have made major advances in the past decade. With forward-looking policies, they could play a larger role in meeting future U.S. energy needs. Renewable-energy costs have dropped while reliability and performance have improved dramatically. The cost of wind power, for example, dropped from 25 cents per kilowatt-hour in 1980 to below 5 cents. Wind is now competitive with natural gas and coal power. Increased production would further reduce costs, creating substantial economic, environmental, and national-security benefits. Wind power is already emerging as an important source of rural economic development in many parts of the country.

Energy-efficient alternatives in this sector are also particularly compelling. Utility energy-efficiency investments around the country prove that energy can be saved for much less than the cost of generating that electricity. Efficiency efforts in California, for example, have cut demand by one-fifth over the last 20 years, avoiding the need for 20 large power plants and saving consumers billions of dollars. Over time, between one-third and one-half of current U.S. electricity consumption could be saved through energy efficiency.

The power sector supports work in the following areas:

- Policies that yield large-scale purchases of renewable energy, expanding the size of the industry
- Policies that yield substantial investments in the utility sector to improve energy efficiency
- Policies that remove market and regulatory barriers to renewables, efficiency, and clean-distributed generation (DG).

The foundation will also work to see that the benefits of clean energy are shared by all, especially those who can least afford additional energy costs.

ALLIANCE FOR AFFORDABLE ENERGY

338 Baronne Street, Suite 200
New Orleans, LA 70112
PHONE: 504-525-0778
WEBSITE: www.gnofn.org/~all4nrg/

2003 AMOUNT: \$25,000 DURATION: One year
To educate Louisiana stakeholders on the benefits of energy-efficiency programs for low-income residents.

2002 AMOUNT: \$25,000 DURATION: One year
To educate Louisiana stakeholders on the benefits of energy-efficiency programs for low-income residents.

ALLIANCE TO SAVE ENERGY

1200 18th Street, NW, Suite 900
Washington, DC 20036
PHONE: 202-857-0666
EMAIL: info@ase.org
WEBSITE: www.ase.org

2001 AMOUNT: \$500,000 DURATION: Two years
To analyze and promote the benefits of new national energy-efficiency policies.

AMERICAN CORN GROWERS FOUNDATION

1730 M Street, NW, Suite 911
Washington, DC 20036
PHONE: 202-835-0023
EMAIL: info@acgf.org
WEBSITE: www.acgf.org

2002 AMOUNT: \$50,000 DURATION: One year
To conduct outreach to the farm community on the benefits of wind power.

2001 AMOUNT: \$50,000 DURATION: One year
To support outreach to farm communities, rural electric co-ops, and federal policymakers on the benefits of wind power for rural areas.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 202-429-8873
EMAIL: info@aceee.org
WEBSITE: www.aceee.org

2003 AMOUNT: \$85,700 DURATION: One year
To analyze the impacts of natural gas, electricity efficiency, and renewables on natural gas supply prices, and to identify regional economic benefits that could result from new investments in efficiency and renewables.

2002 AMOUNT: \$30,000 DURATION: One year
To analyze and hold a workshop on energy-efficiency programs in key states and their impacts on electric-system reliability.

2002 AMOUNT: \$160,000 DURATION: Two years
To analyze and promote state and federal utility energy-efficiency programs and policies.

2001 AMOUNT: \$500,000 DURATION: Two years
To analyze and promote the benefits of national energy-efficiency policies.

2001 AMOUNT: \$50,000 DURATION: One year
To analyze California's demand-side response policies and their impacts on electricity reliability.

2001 AMOUNT: \$80,000 DURATION: One year
To continue ACEEE's work to maintain and expand the role for energy efficiency in a restructured utility and gas industry.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

Southwest Energy Efficiency Project
1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 303-447-0078

WEBSITE: www.swenergy.org

2001 AMOUNT: \$10,000 DURATION: Three months
To assist in the production of the book, *Policies for a Sustainable Energy Future*, an analysis of international renewables and efficiency programs.

AMERICAN LUNG ASSOCIATION OF CALIFORNIA

424 Pendleton Way
Oakland, CA 94621
PHONE: 916-442-4446

WEBSITE: www.californialung.org

2003 AMOUNT: \$7500 DURATION: One year
To establish distributed-generation emissions regulations in California to ensure new distributed generation is as clean and efficient as the best central-station generation options.

2002 AMOUNT: \$30,000 DURATION: One year
To support American Lung Association efforts to promote and implement clean distributed-generation technologies in California.

2001 AMOUNT: \$40,000 DURATION: One year
To support American Lung Association of California's involvement in a statewide distributed-generation effort.

AMERICAN LUNG ASSOCIATION OF CALIFORNIA

American Lung Association of
San Francisco & San Mateo Counties
295 27th Street, #700
Oakland, CA 94621
PHONE: 650-994-5864

EMAIL: lung@alafsm.org

2002 AMOUNT: \$15,000 DURATION: One year
To work with the Bay Area Air Quality Management District to develop stringent emission standards for distributed generation.

AMERICAN LUNG ASSOCIATION OF NEW YORK STATE, INC.

Three Winners Circle, Suite 300
Albany, NY 12205
PHONE: 518-453-0172

WEBSITE: www.lungusa.org/newyork

2001 AMOUNT: \$15,000 DURATION: Seven months
To support the ALA's arguments that funding for energy efficiency in New York is important to protect the public health, and that diesel generators will create significant air-quality problems if used to supply peak power.

AMERICAN LUNG ASSOCIATION OF SAN FRANCISCO

2171 Junipero Serra Boulevard, Suite 720
Daly City, CA 94014-1999
PHONE: 650-994-5864

EMAIL: lung@alafsm.org

2003 AMOUNT: \$5,000 DURATION: One year
To establish distributed-generation emissions regulations in California to ensure new distributed generation is as clean and efficient as the best central-station generation options.

CALPIRG CHARITABLE TRUST

Environment California
3435 Wilshire Boulevard, Suite 380
Los Angeles, CA 90010
PHONE: 916-446-8062

2003 AMOUNT: \$40,000 DURATION: One year
To help implement renewable portfolio-standard policies in California and New York.

2002 AMOUNT: \$20,000 DURATION: One year
To continue funding CalPIRG's work on the California Distributed Generation Initiative.

2001 AMOUNT: \$65,000 DURATION: One year
To work with the media in support of the California Renewables Portfolio Standard.

CALPIRG CHARITABLE TRUST

926 J Street, Suite 715
Sacramento, CA 95814
PHONE: 916-448-4516

EMAIL: calpirg@pirg.org

WEBSITE: www.calpirg.org

2002 AMOUNT: \$50,000 DURATION: One year
To provide outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2001 AMOUNT: \$35,000 DURATION: One year
To support a campaign to promote clean distributed generation.

2001 AMOUNT: \$30,000 DURATION: One year
To launch a statewide field campaign during the summer of 2001 to steer the public debate about energy policy away from fossil fuel and toward renewable-energy power plants.

CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES

1100 11th Street, Suite 311
Sacramento, CA 95814
PHONE: 916-442-7785

EMAIL: info@ceert.org

WEBSITE: www.ceert.org

2003 AMOUNT: \$5,000 DURATION: One year
To establish distributed-generation emissions regulations in California to ensure new distributed generation is as clean and efficient as the best central-station generation options.

2003 AMOUNT: \$90,000 DURATION: One year
To continue work on an intensive media campaign in support of the Renewables Portfolio Standard in California.

2003 AMOUNT: \$25,000 DURATION: One year
To help implement renewable portfolio-standards policies in California and New York.

2002 AMOUNT: \$50,000 DURATION: One year
To study economic and environmental alternatives to the Mohave coal-fired power plant in Nevada.

2002 AMOUNT: \$170,000 DURATION: One year
To continue work on the California Clean Distributed Generation Initiative.

2002 AMOUNT: \$300,000 DURATION: One year
To continue outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2002 AMOUNT: \$525,000 DURATION: Two years
To educate policymakers and the media on the benefits of renewable-energy procurement, a renewables portfolio standard, and other clean-energy policies in California.

2001 AMOUNT: \$40,000 DURATION: Three months
To research the economic and air-quality impacts of a regional cap-and-trade system for four utility pollutants.

2001 AMOUNT: \$100,000 DURATION: One year
To launch an intensive media campaign in support of the Renewables Portfolio Standard in California.

2001 AMOUNT: \$65,000 DURATION: One year
To support an outreach campaign for agri-business, Latino communities, and municipal utilities on the benefits of a Renewables Portfolio Standard in California.

2001 AMOUNT: \$197,000 DURATION: One year
To support CEERT's renewable-energy outreach and media campaigns.

2001 AMOUNT: \$220,000 DURATION: One year
To support CEERT's efforts to coordinate the strategy of environmental groups and other clean-power allies to ensure that air quality and efficiency govern the launch of distributed generation in California.

2001 AMOUNT: \$40,000 DURATION: One year
To provide policymakers with expert technical and legal assistance on the formation of a California Transmission Authority, which would acquire and operate the electric transmission grid of the state of California.

CENTER FOR PUBLIC INTEREST RESEARCH, INC.

29 Temple Place
Boston, MA 02111
PHONE: 617-292-4800

2002 AMOUNT: \$39,000 DURATION: Six months
To develop a report to educate the public and policymakers on the benefits and drawbacks of various kinds of distributed generation.

CENTER FOR RESOURCE SOLUTIONS

Presidio Building 97
P.O. Box 29512
San Francisco, CA 94129
PHONE: 415-561-2100

WEBSITE: www.resource-solutions.org

2003 AMOUNT: \$125,000 DURATION: One year
To support the Green-e program, certifying renewable power products in competitive and regulated retail power markets.

2002 AMOUNT: \$225,000 DURATION: One year
To continue support of the Green-e certification standards for renewable power products.

2001 AMOUNT: \$250,000 DURATION: One year
To continue support of the Green-e certification standards for renewable power products.

CITIZENS ACTION COALITION EDUCATION FUND, INC.

5420 North College Avenue
Indianapolis, IN 46220
PHONE: 317-205-3535
EMAIL: staff@citact.org
WEBSITE: www.citact.org

2001 AMOUNT: \$14,000 DURATION: Six months
To educate Indiana policymakers and the media on the economic development benefits of renewables and energy efficiency as presented in "Repowering the Midwest," a new report on sustainable energy opportunities in the Midwest.

CITIZENS ADVISORY PANEL, INC. Safe Alternatives for Energy Long Island

2316 Main Street, Suite G
Bridgehampton, NY 11932
PHONE: 631-537-4681
EMAIL: safeLI@optonline.net

2003 AMOUNT: \$20,000 DURATION: One year
To help implement a renewable portfolio standard in New York State.

CITIZENS FOR PENNSYLVANIA'S FUTURE

610 North Third Street
Harrisburg, PA 17101
PHONE: 717-214-7920
EMAIL: info@pennfuture.org
WEBSITE: www.pennfuture.org

2003 AMOUNT: \$40,000 DURATION: One year
To promote the benefits of renewable energy and the need for policy to promote renewables in Pennsylvania.

CLEAN AIR TASK FORCE, INC.

c/o Grants Management Associates
77 Summer Street, Eighth Floor
Boston, MA 02110
PHONE: 617-292-0234

2003 AMOUNT: \$80,000 DURATION: One year
To educate the public, media, and policymakers about the economic and environmental risks of building more conventional coal power plants in the West.

2003 AMOUNT: \$80,076 DURATION: One year
To support the Western Clean Energy Campaign.

2002 AMOUNT: \$70,000 DURATION: One year
To study the environmental concerns of water use by power plants in the West and distribute the study to a range of target audiences.

2002 AMOUNT: \$190,000 DURATION: One year
To provide for an environmental and economic assessment of integrated gasification combined cycle technology combined with active carbon sequestration.

CLEAN ENERGY GROUP, INC.

50 State Street, Third Floor
Montpelier, VT 05602
PHONE: 802-223-2554
EMAIL: ceg@together.net
WEBSITE: www.cleangroup.org

2002 AMOUNT: \$50,000 DURATION: One year
To support CEG's Clean Energy Funds Network, the non-profit initiative that helps to accelerate the commercialization of clean-energy technologies through customized advice, information exchange, and joint projects.

2001 AMOUNT: \$100,000 DURATION: One year
To support the group's third year of activity of the Clean Energy Funds Network, the non-profit initiative that works with state renewable-energy funds.

CLIMATE SOLUTIONS

610 East Fourth Avenue
Olympia, WA 98501
PHONE: 360-352-1763
EMAIL: info@climatesolutions.org
WEBSITE: www.climatesolutions.org

2003 AMOUNT: \$38,000 DURATION: One year
To support effective implementation of Clean Energy programs created by the 2002 Farm Bill.

COALITION FOR CLEAN AIR

10780 Santa Monica Boulevard, Suite 210
Los Angeles, CA 90025
PHONE: 310-441-1544

EMAIL: airclean@igc.apc.org
WEBSITE: www.coalitionforcleanair.org

2003 AMOUNT: \$10,000 DURATION: One year
To establish distributed-generation emissions regulations in California to ensure new distributed generation is as clean and efficient as the best central-station generation options.

2002 AMOUNT: \$30,000 DURATION: One year
To serve as the lead organization in the joint campaign to promote clean distributed generation in the South Coast region of California.

2002 AMOUNT: \$45,000 DURATION: One year
To provide outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2001 AMOUNT: \$36,000 DURATION: One year
To support the expansion of the coalition's Dump Diesel Program to provide a new focus on reducing diesel emissions from small distributed sources of electrical generation.

COLORADO COALITION FOR NEW ENERGY TECHNOLOGIES

7725 Malamute Trail
Evergreen, CO 80439
PHONE: 303-649-9331

2003 AMOUNT: \$30,000 DURATION: One year
To establish a renewable portfolio standard in Colorado.

2003 AMOUNT: \$60,000 DURATION: One year
To provide outreach to the business community on the benefits of renewable energy in Colorado.

COLORADO PUBLIC INTEREST RESEARCH FOUNDATION, INC.

1530 Blake Street, Suite 220
Denver, CO 80202
PHONE: 303-573-7474
EMAIL: copirg@pirg.org

WEBSITE: www.copirg.org

2003 AMOUNT: \$95,000 DURATION: One year
To develop a report on the economic benefits of wind energy, and to coordinate Colorado media outreach and other renewable portfolio standard campaign activities.

COLORADO PUBLIC INTEREST RESEARCH FOUNDATION, INC.

Colorado Working Landscapes
1530 Blake Street, Suite 220
Denver, CO 80202
PHONE: 303-399-4456

2003 AMOUNT: \$25,000 DURATION: One year
To develop a report on the economic benefits of wind energy and to coordinate Colorado media outreach and other renewable portfolio standard campaign activities.

COLORADO WORKING LANDSCAPES

1559 Logan Street
Denver, CO 80203
PHONE: 303-399-4456

2003 AMOUNT: \$20,000 DURATION: One year
To establish a renewable portfolio standard in Colorado.

CONSERVATION LAW FOUNDATION, INC.

62 Summer Street
Boston, MA 02110-1008
PHONE: 617-350-0990
EMAIL: issues@clf.org
WEBSITE: www.clf.org

2003 AMOUNT: \$75,000 DURATION: One year
To promote market rules and siting rules that enable the development of renewable energy in New England.

2002 AMOUNT: \$150,000 DURATION: One year
To work on energy efficiency and utility restructuring issues in Massachusetts and New England.

2001 AMOUNT: \$50,000 DURATION: One year
To document the success of Massachusetts in using clean-energy policies to reduce carbon emissions, protect public health, and promote economic competitiveness.

2001 AMOUNT: \$30,000 DURATION: One year
To establish a distributed-generation emissions regulation that would restrict emissions from smaller electric generators and encourage reliance on clean and renewable generation sources.

2001 AMOUNT: \$200,000 DURATION: One year
To fashion a sustainable energy system for New England that safeguards the environment and public health while accommodating and taking advantage of near-term economic realities.

CONSUMERS UNION OF UNITED STATES, INC.

1535 Mission Street
San Francisco, CA 94103
PHONE: 415-431-6747
WEBSITE: www.consumersunion.org

2002 AMOUNT: \$50,000 DURATION: One year
To provide outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2001 AMOUNT: \$50,000 DURATION: One year
To provide a nationally-recognized and credible consumer voice on energy issues with California-specific research, analysis, and public education, during the California energy crisis.

DAKOTA RESOURCE COUNCIL

113 First Street West
Dickinson, ND 58601
PHONE: 701-483-2851
EMAIL: drc@dickinson.ctctel.com
WEBSITE: www.drcinfo.com

2003 AMOUNT: \$75,000 DURATION: One year
To support ongoing outreach work on wind power in North Dakota.

2002 AMOUNT: \$75,000 DURATION: One year
To support ongoing outreach work on wind power in North Dakota.

2001 AMOUNT: \$75,000 DURATION: One year
To support ongoing outreach work to promote wind power in North Dakota.

DAKOTA RURAL ACTION, INC.

P.O. Box 549
326 Main Avenue #208
Brookings, SD 57006
PHONE: 605-697-5204
EMAIL: drural@brookings.net

2003 AMOUNT: \$40,000 DURATION: One year
To provide outreach and education on the benefits of wind energy to South Dakota.

2002 AMOUNT: \$40,000 DURATION: One year
To promote wind power as a strategy for sustainable economic development in rural areas of South Dakota.

2001 AMOUNT: \$40,000 DURATION: One year
To promote wind power as a strategy for sustainable economic development in rural areas of South Dakota.

EARTH ISLAND INSTITUTE Climate Solutions

P.O. Box 29908 - Presidio Station
San Francisco, CA 94133
PHONE: 360-352-1763
EMAIL: info@climatesolutions.org
WEBSITE: www.climatesolutions.org

2001 AMOUNT: \$13,200 DURATION: Six months
To work with rural electric co-ops on the Last Mile Project, promoting renewable energy in agricultural areas of Eastern Washington.

ECOVENTURE

California Interfaith Power & Light
1904 Franklin Street, Suite 909
Oakland, CA 94612
PHONE: 510-444-4078
WEBSITE: www.interfaithpower.org

2002 AMOUNT: \$16,000 DURATION: One month
To support the Interfaith Appeal for Climate Justice, a plea from religious leaders to support energy efficiency, renewable energy, and reducing emissions from automobiles.

ENVIRONMENT CALIFORNIA RESEARCH AND POLICY CENTER

3435 Wilshire Boulevard, #385
Los Angeles, CA 90010
PHONE: 213-251-3688

2003 AMOUNT: \$10,000 DURATION: One year
To establish distributed-generation emissions regulations in California to ensure new distributed generation is as clean and efficient as the best central-station generation options.

ENVIRONMENT NORTHEAST

P.O. Box 313
Eight Summer Street
Rockport, ME 04856-0313
PHONE: 207-236-6470
EMAIL: admin@env-ne.org
WEBSITE: www.env-ne.org

2003 AMOUNT: \$50,000 DURATION: One year
To promote energy efficiency, better utility planning, and renewable energy in Connecticut.

2002 AMOUNT: \$75,000 DURATION: One year
To support renewable-energy policies in Connecticut, expand efficiency funding to natural gas utilities, and promote distributed resources as an alternative to new transmission lines.

2001 AMOUNT: \$85,000 DURATION: One year
To provide public input and oversight of programs to advance energy efficiency and renewable-energy resources in Connecticut.

ENVIRONMENTAL ADVOCATES OF NEW YORK, INC.

353 Hamilton Street
Albany, NY 12210
PHONE: 518-462-5526
WEBSITE: www.eany.org

2003 AMOUNT: \$10,000 DURATION: One year
To establish distributed-generation emissions regulations in the Northeast that ensure new distributed generation is as clean and efficient as the best central-station generation options.

2003 AMOUNT: \$45,000 DURATION: One year
To provide outreach to rural and upstate constituencies to generate support for the renewable portfolio standard in New York.

2002 AMOUNT: \$35,000 DURATION: One year
To continue work to promote clean distributed generation in New York State.

2001 AMOUNT: \$25,000 DURATION: One year
To promote clean and efficient distributed-generation technologies.

ENVIRONMENTAL DEFENSE Environmental Defense, Texas

257 Park Avenue South
New York, NY 10010
PHONE: 512-478-5161
WEBSITE: www.edf.org

2003 AMOUNT: \$10,000 DURATION: One year
To establish distributed-generation emissions regulations in Texas to ensure new distributed generation is as clean and efficient as the best central-station generation options.

2003 AMOUNT: \$65,000 DURATION: One year
To promote transmission planning that would enable more wind power development in Texas, policies that would credit energy efficiency for air-quality improvements, and increased funding for energy efficiency.

2002 AMOUNT: \$140,000 DURATION: One year
To continue their campaign to advance energy efficiency and renewable energy in Texas, with special emphasis on rulemaking proceedings.

2002 AMOUNT: \$90,872 DURATION: One year
To establish emission standards for existing distributed-generation units in Texas.

2001 AMOUNT: \$140,000 DURATION: One year
To continue their campaign to advance energy efficiency and renewables in Texas, with special emphasis on rulemaking proceedings.

2001 AMOUNT: \$142,000 DURATION: One year
To establish emissions standards for both old and new distributed-generation units.

ENVIRONMENTAL DEFENSE, INC.

257 Park Avenue South, 17th Floor
New York, NY 10010
PHONE: 212-505-2100
EMAIL: edf@edf.org
WEBSITE: www.edf.org

2003 AMOUNT: \$40,000 DURATION: One year
To educate the public, media, and policymakers about the economic and environmental risks of building more conventional coal power plants in the West.

2003 AMOUNT: \$40,051 DURATION: One year
To fund the Western Coal Plants Campaign.
2001 AMOUNT: \$135,000 DURATION: One year
To research emissions from diesel back-up generators, geographic areas of their use, exposure and associated health risks, and to develop an integrated GIS database with the results.

ENVIRONMENTAL LAW AND POLICY CENTER OF THE MIDWEST

35 East Wacker Drive, Suite 1300
Chicago, IL 60601
PHONE: 312-673-6500
WEBSITE: www.elpc.org

2003 AMOUNT: \$400,000 DURATION: Two years
To generate support for the clean-energy programs of the U.S. Department of Agriculture.

2003 AMOUNT: \$400,000 DURATION: One year
To work on renewable energy and efficiency policy in the Upper Midwest, focusing on farm-based programs, transmission, and the job-creation benefits of clean energy.

2002 AMOUNT: \$245,000 DURATION: One year
To support ELPC's state and local advocacy efforts to implement the clean-energy programs created by the 2002 Farm Bill.

2002 AMOUNT: \$80,000 DURATION: Eight months
To work promoting energy efficiency and renewable energy in transmission planning, farm policy, and state policy.

2002 AMOUNT: \$300,000 DURATION: One year
To continue regional efforts in the Midwest to reduce air pollution and to promote the development of energy efficiency and clean-energy sources.

2002 AMOUNT: \$50,000 DURATION: One year
To support follow-up advocacy in the Upper Midwest after the release of "Repowering the Midwest."

2001 AMOUNT: \$50,000 DURATION: One year
To support a renewable portfolio standard campaign in the Midwest by launching a public-education campaign and recruiting support of utility companies and clean-energy business leaders.

2001 AMOUNT: \$325,000 DURATION: One year
To continue regional efforts in the Midwest to reduce air pollution and to promote the development of energy efficiency and clean-energy sources.

FOREST ETHICS

Power Shift
P.O. Box 3418
Berkeley, CA 94703
PHONE: 202-299-9071
WEBSITE: www.shiftpower.org

2002 AMOUNT: \$50,000 DURATION: One year
To fund outreach and analysis to local governments on using revenue bonds to fund clean-energy projects.

FRONT-RANGE ECONOMIC STRATEGY CENTER

10 Lakeside Lane, Suite 1-B
Denver, CO 80212
PHONE: 303-477-6111

2003 AMOUNT: \$10,000 DURATION: One year
To build labor community support for a Colorado renewable portfolio standard.

GLOBAL GREEN USA

227 Broadway, Suite 302
Santa Monica, CA 90401
PHONE: 310-394-7700
EMAIL: ggusa@globalgreen.org
WEBSITE: www.globalgreen.org

2003 AMOUNT: \$20,000 DURATION: Six months
To encourage the Los Angeles Department of Water and Power to adopt an aggressive renewable-energy standard.

GREAT PLAINS WIND INDUSTRY PROJECT

2105 First Avenue South
Minneapolis, MN 55404
PHONE: 612-870-3461

EMAIL: info@windustry.org
WEBSITE: www.windustry.org

2003 AMOUNT: \$25,000 DURATION: One year
To develop support in rural communities for new wind energy projects and policies in Illinois.

2003 AMOUNT: \$25,000 DURATION: One year
To develop support in rural communities for new wind energy projects and policies in Illinois and to support a national conference on community-owned wind projects.

HARNESSING DAKOTA WIND

P.O. Box 2064
1101 First Avenue North
Fargo, ND 58107
PHONE: 701-239-4848
EMAIL: wind@ndfb.org

2003 AMOUNT: \$65,000 DURATION: One year
To support outreach to farm groups and policymakers on the benefits of wind power and to conduct research on farmer-owned wind projects.

ILLINOIS PIRG EDUCATION FUND

180 West Washington, Suite 500
Chicago, IL 60602
PHONE: 312-364-0096
EMAIL: ilpirg@aol.com
WEBSITE: www.illinoispirg.org

2003 AMOUNT: \$40,000 DURATION: One year
To provide grassroots outreach and education to promote a renewable-energy standard in Illinois.

2002 AMOUNT: \$40,000 DURATION: One year
To promote policies that advance renewable energy in Illinois through education and outreach on the economic, health, and environmental benefits of renewable energy.

IOWA CITIZEN ACTION NETWORK EDUCATION FOUNDATION

3520 Beaver Avenue, Suite D
Des Moines, IA 50310
PHONE: 515-277-5858
EMAIL: iseed@netins.net

WEBSITE: www.yawp.com/ican/seed.html

2003 AMOUNT: \$50,000 DURATION: One year
To provide outreach and education on the benefits of renewable energy to Iowa.

2002 AMOUNT: \$30,000 DURATION: One year
To educate policymakers and the media on renewable-energy policies in Iowa, such as a renewables portfolio standard.

2001 AMOUNT: \$40,000 DURATION: One year
To continue outreach, organizing, and media work to promote renewable energy and energy efficiency in Iowa.

IOWA ENVIRONMENTAL COUNCIL

711 East Locust Street
Des Moines, IA 50309
PHONE: 515-244-1194
EMAIL: iecmail@earthweshare.org
WEBSITE: www.earthweshare.org

2003 AMOUNT: \$45,000 DURATION: Six months
To fund the second annual Midwest Renewable Energy and Agriculture Summit, bringing regional stakeholders together to discuss opportunities for renewable energy to bolster rural economies.

2002 AMOUNT: \$80,000 DURATION: One year
To educate policymakers about the benefits of renewable energy and energy efficiency in Iowa.

IZAACK WALTON LEAGUE OF AMERICA

1619 Dayton Avenue, Suite 202
Saint Paul, MN 55104-6206
PHONE: (651)649-1446
WEBSITE: www.iwla.org

2003 AMOUNT: \$600,000 DURATION: Two years
To provide research and advocacy to overcome the physical, policy, and pricing barriers to transmission for wind power in the Upper Midwest.

2003 AMOUNT: \$150,000 DURATION: One year
To support a second year of work to promote renewable energy, energy efficiency, and clean distributed generation in Minnesota.

2002 AMOUNT: \$150,000 DURATION: One year
To support promote renewable energy, energy efficiency, and clean distributed generation in Minnesota.

IZAAK WALTON LEAGUE OF AMERICA
Wind on the Wires

1619 Dayton Avenue, Suite 202
St. Paul, MN 55104-6206
WEBSITE: www.windonthewires.org

2003 AMOUNT: \$100,000 **DURATION:** One year
To study the integration of wind power with midwestern hydro resources, compare the environmental and economic impacts of transmission options, and promote pro-wind transmission policies.

2001 AMOUNT: \$525,000 **DURATION:** Two years
To reform state and federal regulations to give wind energy fair access to transmission lines and the market.

LATINO ISSUES FORUM

785 Market Street, Third Floor
San Francisco, CA 94103
PHONE: 415-284-7220
EMAIL: lifcentral@lif.org
WEBSITE: www.lif.org

2003 AMOUNT: \$45,000 **DURATION:** One year
To provide advocacy and informational services to advance energy efficiency and affordability programs for low-income households.

2002 AMOUNT: \$10,000 **DURATION:** One year
To negotiate with California public power utilities on programs implementing energy efficiency and low-income assistance.

2002 AMOUNT: \$350,000 **DURATION:** One year
To build a network of energy advocates within the Latino community.

2001 AMOUNT: \$35,000 **DURATION:** One year
To continue Latino Issue Forum's work within the California electricity market to protect low-income interests, ensure public purpose programs, and promote consumer education on energy-efficiency issues.

MARYLAND PUBLIC INTEREST
RESEARCH FOUNDATION

3121 St. Paul Street, Suite 26
Baltimore, MD 21218
PHONE: 410-467-0439

WEBSITE: www.pirg.org/marypirg/

2001 AMOUNT: \$40,000 **DURATION:** Eight months
To promote energy efficiency and renewable-energy policies in Maryland.

MASS PIRG EDUCATION FUND, INC.

29 Temple Place
Boston, MA 02111
PHONE: 617-292-4800
WEBSITE: www.masspirg.org

2002 AMOUNT: \$34,232 **DURATION:** One year
To continue MASSPIRG's outreach on establishing distributed-generation air emissions standards.

2001 AMOUNT: \$32,000 **DURATION:** One year
To provide public education and regulatory advocacy on the issue of clean distributed generation.

2001 AMOUNT: \$42,900 **DURATION:** One year
To support the Campaign for an Energy Efficient Massachusetts, promoting a sustainable-energy policy for the state.

MINNESOTA ENVIRONMENTAL
INITIATIVE, INC.

Energy Alley
527 Marquette Avenue, South
Rand Tower, Suite 2420
Minneapolis, MN 55401
PHONE: 612-334-3388
WEBSITE: www.ghm.com/energyalley

2002 AMOUNT: \$25,000 **DURATION:** One year
To provide education, outreach, and organizing of clean-energy businesses in Minnesota.

2001 AMOUNT: \$75,000 **DURATION:** One year
To educate the Minnesota clean-energy business community and get them engaged in state policy development.

MINNESOTANS FOR AN
ENERGY-EFFICIENT ECONOMY

Minnesota Building, Suite 600
46 East Fourth Street
St. Paul, MN 55101
PHONE: 651-225-0878
WEBSITE: www.me3.org

2003 AMOUNT: \$260,000 **DURATION:** Two years
To support the Community Wind Project, promoting policies that encourage locally-owned wind power projects in Minnesota.

2003 AMOUNT: \$275,000 **DURATION:** One year
To support clean-energy advocacy in Minnesota.

2002 AMOUNT: \$275,000 **DURATION:** One year
To support clean-energy advocacy in Minnesota.

2001 AMOUNT: \$275,000 **DURATION:** One year
To continue ME3's work to advance energy efficiency and renewable energy in Minnesota through education and regulations, and to support the Minnesota Sustainable Energy for Economic Development Campaign.

NATIONAL CONSUMER
LAW CENTER, INC.

77 Summer Street, 10th Floor
Boston, MA 02110-1006
PHONE: 617-542-8010
EMAIL: consumerlaw@nclc.org
WEBSITE: www.NCLC.org

2003 AMOUNT: \$70,000 **DURATION:** One year
To support research and facilitation for education around the country on the benefits of strong energy-efficiency programs tailored to low-income communities.

2002 AMOUNT: \$100,000 **DURATION:** One year
To continue to support NCLC's work to increase energy-efficiency programs for low-income consumers.

2001 AMOUNT: \$100,000 **DURATION:** One year
To continue support of the Low-Income Energy Project, which provides high-quality and effective advocacy and informational services to advance energy efficiency and affordability programs available to low-income households.

NATIONAL COMMISSION
ON ENERGY POLICY

1616 H Street, NW, Sixth Floor
Washington, DC 20006
PHONE: 202-637-0400

2002 AMOUNT: \$1,100,000 **DURATION:** One year
To help establish the National Commission on Energy Policy.

NATIONAL ENVIRONMENTAL TRUST

1200 18th Street, NW, Suite 500
Washington, DC 20036
PHONE: 202-887-8800
EMAIL: netinfor@environet.org
WEBSITE: www.environet.org

2002 AMOUNT: \$200,000 **DURATION:** One year
To conduct a media and public education campaign on national energy policy.

2001 AMOUNT: \$300,000 **DURATION:** One year
To continue with the Media and Education Campaign Tour and launch the Local Media Energy Tour, which work to educate the public, policymakers, and members of the media about the Bush energy plan.

NATIONAL WILDLIFE FEDERATION
Northern Rockies Office

11100 Wildlife Center Drive
Reston, VA 20190-5362
PHONE: 406-721-6705

2002 AMOUNT: \$25,000 **DURATION:** Nine months
To convene a conference on the impact of coal bed methane development on wildlife in the Intermountain West.

NATURAL RESOURCES DEFENSE
COUNCIL, INC.

40 West 20th Street
New York, NY 10011
PHONE: 212-727-2700
EMAIL: nrinfo@nrdc.org
WEBSITE: www.nrdc.org

2002 AMOUNT: \$100,000 **DURATION:** One year
To co-fund a comprehensive study of biomass as a major future energy source for the United States and assess policies that could accelerate a robust transition.

2002 AMOUNT: \$100,000 **DURATION:** One year
To support continued work to promote clean distributed generation in New York and New Jersey.

2002 AMOUNT: \$41,588 **DURATION:** One year
To support NRDC's continued work on the California Distributed Generation Initiative.

2002 AMOUNT: \$120,000 **DURATION:** Two years
To continue to provide technical expertise on transmission and wholesale electric market policies that support energy efficiency and renewable resources.

2002 AMOUNT: \$850,000 **DURATION:** Two years
To support clean-energy advocacy in California, New York, New Jersey, and the Pacific Northwest.

2001 AMOUNT: \$20,000 **DURATION:** Six months
To analyze the interaction of wind energy with bulk-power operations and markets.

2001 AMOUNT: \$116,000 **DURATION:** One year
To develop a comprehensive profile and analysis of air emissions and emission offsets in California.

2001 AMOUNT: \$125,000 **DURATION:** One year
To support NRDC's federal-level work on distributed generation and combined heat and power.

2001 AMOUNT: \$64,000 **DURATION:** One year
To help establish policies that set strict emissions and efficiency standards for DG technologies, and to guide existing programs toward the promotion of clean DG technologies.

2001 AMOUNT: \$105,000 DURATION: One year
To establish policies that set strict emissions and efficiency standards for DG technologies and to implement incentives that promote the development and installation of cleaner and more efficient DG technologies.

2001 AMOUNT: \$510,000 DURATION: One year
To continue regulatory work in the utility sector, focusing on advancing energy efficiency and renewable energy.

2001 AMOUNT: \$80,000 DURATION: One year
To support the Northeast ISO Environmental Load Response Project.

NEW MEXICO WILDERNESS ALLIANCE

P.O. Box 25464
202 Central Avenue SE, Suite 101
Albuquerque, NM 87125
PHONE: 505-843-8696
WEBSITE: www.nmwild.org

2002 AMOUNT: \$15,000 DURATION: Seven months
To launch a public education, grassroots organizing, and media campaign to publicize the results of a report evaluating the trade-off between energy development and natural resource conservation in Otero Mesa, New Mexico.

NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS, INC.

Five Militia Drive
Lexington, MA 02421
PHONE: 781-860-9177
WEBSITE: www.neep.org

2001 AMOUNT: \$7,100 DURATION: One year
To analyze the benefits of energy-efficiency policies in Massachusetts and the Northeast.

NORTHWEST SUSTAINABLE ENERGY FOR ECONOMIC DEVELOPMENT

119 First Avenue South, Suite 400
Seattle, WA 98104-3416
PHONE: 206-328-2441
WEBSITE: www.nwseed.org

2003 AMOUNT: \$75,000 DURATION: One year
To support development of an energy-efficiency and renewable-energy-portfolio standard in Washington.

2003 AMOUNT: \$54,000 DURATION: One year
To educate the public in rural eastern Washington State on the benefits of clean energy and an energy-portfolio standard.

2002 AMOUNT: \$75,000 DURATION: One year
To perform outreach and education to agricultural and rural groups on the benefits of renewable energy in Washington State.

NW ENERGY COALITION

219 First Avenue South, Suite 100
Seattle, WA 98104-2599
PHONE: 206-621-0094
EMAIL: nwec@nwenergy.org
WEBSITE: www.nwenergy.org

2003 AMOUNT: \$30,000 DURATION: One year
To provide advocacy and informational services to advance energy efficiency and affordability programs for low-income households.

2003 AMOUNT: \$7,000 DURATION: One year
To support development of an energy-efficiency and renewable-energy-portfolio standard in Washington.

2003 AMOUNT: \$5,000 DURATION: Six months
To support a poll on consumer attitudes regarding renewable energy, energy efficiency, and an energy-portfolio standard for Washington State.

2003 AMOUNT: \$24,200 DURATION: One year
To prepare a prospective and retrospective analysis showing the impact to ratepayers of the energy-portfolio standard in Washington.

2002 AMOUNT: \$30,000 DURATION: One year
To continue the Low-Income Organizing Network efforts to advance low-income energy-efficiency programs in Oregon, Washington, Idaho, and Montana.

2002 AMOUNT: \$400,000 DURATION: Two years
To promote energy efficiency and renewable energy in the Pacific Northwest.

2001 AMOUNT: \$35,000 DURATION: Three months
To study the potential for efficiency and renewables in the Pacific Northwest.

2001 AMOUNT: \$250,000 DURATION: One year
To continue efforts in the Pacific Northwest (Oregon, Washington, Idaho, and Montana) to advance energy efficiency and renewable energy through state regulations and regional policies.

2001 AMOUNT: \$30,000 DURATION: One year
To support the coalition's sixth year of the Low-Income Organizing Network.

OHIO ENVIRONMENTAL COUNCIL

1207 Grandview Avenue, Suite 201
Columbus, OH 43212
PHONE: 614-487-7506
EMAIL: oec@theoec.org
WEBSITE: www.theoec.org

2001 AMOUNT: \$50,000 DURATION: One year
To expand clean-energy policies and promote green-power markets in Ohio.

PACE UNIVERSITY

Pace Energy Project
78 North Broadway
White Plains, NY 10603
PHONE: 914-422-4227

2003 AMOUNT: \$60,000 DURATION: Two years
To advance energy efficiency and renewable energy through policies of the New York ISO.

2003 AMOUNT: \$125,000 DURATION: One year
To promote energy-efficiency funding, implementation of a renewable-energy standard, and adoption of better utility planning practices.

2002 AMOUNT: \$75,000 DURATION: One year
To support work on transmission policy, demand response, and energy efficiency at market operations and transmission policy forums in the Northeast.

2002 AMOUNT: \$50,000 DURATION: One year
To advocate for model distributed-generation emission rules in New York and improve the state's rules on DG's participation in emergency demand-response programs.

2002 AMOUNT: \$150,000 DURATION: One year
To promote clean-energy policies in New York, including energy-efficiency funding, environmental disclosure rules, and portfolio management.

2002 AMOUNT: \$50,000 DURATION: One year
To support the Northeast Load Response Initiative, promoting environmentally sound demand-response programs.

2001 AMOUNT: \$40,000 DURATION: One year
To create and promote an environmental regulatory strategy that promotes clean distributed-generation technologies.

2001 AMOUNT: \$200,000 DURATION: One year
To advocate regulations and market rules to support New York's transition to a competitive market that supports energy efficiency, renewable energy, and clean distributed resources.

PHOENIX ECONOMIC DEVELOPMENT GROUP

P.O. Box 598
1000 Prospect Street
Ellensburg, WA 98926-0598
PHONE: 509-962-7244
WEBSITE: www.kvalley.com/phoenix

2002 AMOUNT: \$9,000 DURATION: One year
To fund a study of the economic impact of wind power in Kittitas County, Washington.

PHYSICIANS FOR SOCIAL RESPONSIBILITY LOS ANGELES CHAPTER

3250 Wilshire Blvd, Suite 1400
Los Angeles, CA 90010-1604
PHONE: 213-386-4901
WEBSITE: www.psrila.org

2002 AMOUNT: \$25,800 DURATION: One year
To continue work promoting the benefits of clean distributed-generation technologies.

2001 AMOUNT: \$68,500 DURATION: One year
To provide outreach and education to key health organizations and medical professionals on the health impacts of diesel DG and the legislative and advocacy issues related to promoting cleaner alternatives for distributive energy generation.

PCL FOUNDATION

926 J Street, Suite 612
Sacramento, CA 95814
PHONE: 916-444-8726
WEBSITE: www.pcl.org

2003 AMOUNT: \$10,000 DURATION: One year
To continue working with the Central Valley Irrigation Districts to implement low-income and energy-efficiency programs.

2002 AMOUNT: \$10,000 DURATION: One year
To negotiate with California public power utilities on programs implementing energy efficiency and low-income assistance.

PUBLIC CITIZEN FOUNDATION

Public Citizen Texas

215 Pennsylvania Avenue, SE

Washington, DC 20003

PHONE: 512-477-1155

EMAIL: public_citizen@citizen.org

WEBSITE: www.citizen.org

2003 AMOUNT: \$65,000 DURATION: One year
To increase reliance on renewable energy and energy efficiency in Texas and reduce power plant emissions.

2003 AMOUNT: \$20,000 DURATION: One year
To promote cleaner distributed generation in Texas.

2003 AMOUNT: \$25,000 DURATION: One year
To help effectively implement clean-energy programs created by the 2002 Farm Bill.

2003 AMOUNT: \$75,000 DURATION: One year
To support sustainable energy development in Texas.

2001 AMOUNT: \$50,000 DURATION: One year
To push for higher renewable-energy standards, to promote green power markets, and to solve transmission barriers that constrain wind development in Texas.

PUBLIC UTILITY LAW PROJECT OF NEW YORK, INC.

90 State Street #601

Albany, NY 12207

PHONE: 518-449-3375

EMAIL: info@pulp.tc

WEBSITE: www.pulp.tc

2003 AMOUNT: \$10,000 DURATION: One year
To provide advocacy and informational services in order to advance energy efficiency and affordability programs for low-income households.

2002 AMOUNT: \$40,000 DURATION: One year
To advance efforts in 2002 to improve state energy policy in the areas of efficiency and affordability for low-income residential consumers.

2001 AMOUNT: \$40,000 DURATION: One year
To advance efforts in 2001 to improve energy efficiency and affordability for low-income residential consumers in the state of New York.

RAND CORPORATION

P.O. Box 2138

1700 Main Street

Santa Monica, CA 90407-2138

PHONE: 310-393-0411

WEBSITE: www.rand.org

2001 AMOUNT: \$60,000 DURATION: Six months
To research and produce a paper on the viability of natural gas as an energy source in California's future.

REGULATORY ASSISTANCE PROJECT

177 Water Street

Gardiner, ME 04345

PHONE: 207-582-1135

EMAIL: rapmaine@rapmaine.org

WEBSITE: www.rapmaine.org

2003 AMOUNT: \$200,000 DURATION: One year
To educate utility commissioners on the benefit of energy-efficiency standards and long-term resource planning and to advocate for smart electric-transmission growth.

2003 AMOUNT: \$300,000 DURATION: One year
To educate utility regulators on the principles of portfolio management, transmission planning, and demand response.

2002 AMOUNT: \$125,000 DURATION: One year

To fund a two-part strategy of outreach and education to inform state air and utility regulators about a new model rule that sets output-based emissions standards for small-scale distributed-generation facilities.

2001 AMOUNT: \$75,000 DURATION: Six months

To write a paper addressed to the utility regulatory community on the need to revise the provision of residential and small-use customer electricity services.

2001 AMOUNT: \$300,000 DURATION: One year

To support RAP's work on transmission and distribution regulation policies, demand response, and clean distributed generation.

2001 AMOUNT: \$320,000 DURATION: One year

To educate state and federal regulators on policies to promote clean distributed resources, demand-side responsiveness in wholesale power markets, regulations that break the link between profits and energy throughput for distribution utilities, and for other utility policies that advance clean-energy sources.

RENEWABLE ENERGY POLICY PROJECT

1612 K Street, NW, Suite 202

Washington, DC 20006

PHONE: 202-293-2898

WEBSITE: www.repp.org

2003 AMOUNT: \$20,000 DURATION: Six months
To support the production and distribution of a report describing how renewable and efficiency initiatives can provide family-wage jobs and stimulate development for local economies.

2002 AMOUNT: \$20,000 DURATION: Six months
To work with the AFL-CIO to study the job impact and economic benefits of increased renewable-energy production in Nevada.

RENEWABLE NORTHWEST PROJECT

917 Southwest Oak Street, Suite 303

Portland, OR 97205

PHONE: 503-223-4544

EMAIL: renewables@rnp.org

WEBSITE: www.rnp.org

2003 AMOUNT: \$300,000 DURATION: Two years
To support efforts to promote renewable-energy policies, projects, and market demand in the Pacific Northwest.

2003 AMOUNT: \$35,000 DURATION: Five months
To conduct and release the results of a public opinion poll on energy efficiency, renewable energy, and the energy-portfolio standard.

2003 AMOUNT: \$10,000 DURATION: Seven months
To develop a strategy for Eastern Washington outreach activities related to an energy-portfolio standard.

2003 AMOUNT: \$23,000 DURATION: One year
To support media and event planning for the Washington energy-portfolio standard campaign.

2001 AMOUNT: \$300,000 DURATION: Two years
To ensure successful siting of new wind farms, the expansion of green customer choice, and implementation of new renewable-energy policies.

2001 AMOUNT: \$50,000 DURATION: One year
To support Renewable Northwest Project's efforts on renewable-energy education and outreach.

ROCKY MOUNTAIN FARMERS UNION EDUCATIONAL AND CHARITABLE FOUNDATION, INC.

5655 South Yosemite Street, Suite 400

Greenwood Village, CO 80111

PHONE: 303-752-5800

EMAIL: rmfu@rmfu.org

WEBSITE: www.rmfu.org

2003 AMOUNT: \$25,000 DURATION: One year

To establish a renewable portfolio standard in Colorado.

2003 AMOUNT: \$25,000 DURATION: One year
To build rural community support for a Colorado renewable portfolio standard.

ROCKY MOUNTAIN INSTITUTE

1739 Snowmass Creek Road

Old Snowmass, CO 81654-9199

PHONE: 970-927-3851

WEBSITE: www.rmi.org

2002 AMOUNT: \$35,000 DURATION: One year

To propose and analyze clean-energy options for the San Francisco energy plan.

SAN JUAN CITIZENS ALLIANCE

P.O. Box 2461

863 1/2 Main Avenue

Durango, CO 81302

PHONE: 970-259-3583

WEBSITE: www.sanjuancitizens.org

2002 AMOUNT: \$15,000 DURATION: Seven months

To fund the dissemination of a biological and economic analysis of the impact of energy development in the Hatcher-Dyke Mountains in order to reduce energy development in the area.

SIERRA CLUB FOUNDATION

85 Second Street, Suite 750

San Francisco, CA 94105

PHONE: 415-977-5500

EMAIL: information@sierraclub.org

WEBSITE: www.sierraclub.org/foundation

2001 AMOUNT: \$27,000 DURATION: One year

To enact administrative state regulations and policies emphasizing renewable, rather than fossil-fueled, forms of distributed generation.

SOUTHERN ALLIANCE FOR CLEAN ENERGY

P.O. Box 1842

Knoxville, TN 37901-1842

PHONE: 865-637-6055

EMAIL: sasmith@tngreen.com

WEBSITE: www.cleanenergy.org

2003 AMOUNT: \$75,000 DURATION: One year
To provide education and outreach promoting renewable energy and energy efficiency in the South.

2002 AMOUNT: \$100,000 DURATION: One year
To promote energy efficiency and renewable energy in Florida, Georgia, Tennessee, and North Carolina, and at the Tennessee Valley Authority.

SOUTHERN ENVIRONMENTAL LAW CENTER

201 West Main Street, Suite 14
Charlottesville, VA 22901
PHONE: 804-977-4090
WEBSITE: www.selcga.org

2001 AMOUNT: \$150,000 DURATION: One year
To continue efforts to help consumers, policymakers, and the media understand the significant health and environmental impact from coal-burning power plants in the Southeast.

SOUTHWEST ENERGY EFFICIENCY PROJECT

2260 Baseline Road, Suite 212
Boulder, CO 80302-7740
PHONE: 303-447-0078
WEBSITE: www.swenergy.org

2003 AMOUNT: \$240,000 DURATION: 15 months
To identify the benefits of and promote energy-efficiency policies in the Southwest.

SOUTHWEST MINNESOTA FOUNDATION

P.O. Box 428
1390 Highway 15 South
Hutchinson, MN 55350
PHONE: 320-587-4848
EMAIL: info@swmnfoundation.org
WEBSITE: www.swmnfoundation.org

2003 AMOUNT: \$45,000 DURATION: One year
To host an innovation forum and to hire a consultant to help with renewable-energy business development in southwest Minnesota.

SOUTHWEST REGIONAL DEVELOPMENT COMMISSION

Rural Minnesota Energy Task Force
Slayton, MN 56172-1142
PHONE: 507-836-8547

2003 AMOUNT: \$30,000 DURATION: One year
To support the work of the Rural Minnesota Energy Task Force, a collaboration of 11 county commissions in southwest Minnesota to promote wind power.

**SOUTHWEST RESEARCH AND INFORMATION CENTER
Coalition for Clean Affordable Energy**

105 Stanford, SE
Albuquerque, NM 87106
PHONE: 505-255-1090
EMAIL: gnryba@cybermesa.com
WEBSITE: www.cfcae.org

2003 AMOUNT: \$50,000 DURATION: One year
To support implementation of the renewable portfolio standard in New Mexico.

STANFORD UNIVERSITY

Department of Economics
Landau Economics Building
Stanford, CA 94305-6072
PHONE: 650-723-3944
WEBSITE: www-econ.stanford.edu

2001 AMOUNT: \$60,000 DURATION: Six months
To provide a comprehensive diagnosis of the underlying causes of the California power crisis and to suggest remedies to market rules and structures.

TENNESSEE VALLEY ENERGY EDUCATION FOUNDATION

P.O. Box 1842
Knoxville, TN 37901
PHONE: 423-637-6055
WEBSITE: www.cleanenergy.org

2001 AMOUNT: \$100,000 DURATION: One year
To advance progressive energy policies throughout the South, with an emphasis on green power markets, biomass, and regional energy-efficiency programs.

TEXAS FUND FOR ENERGY AND ENVIRONMENTAL EDUCATION

Texas SEED Coalition
401 West 29th Street
Austin, TX 78705-3711
PHONE: 512-479-7744
WEBSITE: www.seedcoalition.org

2003 AMOUNT: \$45,000 DURATION: Eight months
To support efforts to promote solar and renewable energy in Austin and San Antonio, Texas.

TEXAS FUND FOR ENERGY AND ENVIRONMENTAL EDUCATION

611 South Congress Avenue, Suite 200
Austin, TX 78705-3711
PHONE: 512-479-7744

2001 AMOUNT: \$51,000 DURATION: One year
(1) To develop a report on DG pollution and the cleaner alternatives available; (2) To develop and advocate for rules that limit polluting emissions of DG; and (3) To educate the media, public, and policymakers about DG pollution and clean DG technologies.

THE UTILITY REFORM NETWORK

711 Van Ness Avenue, Suite 350
San Francisco, CA 94102
PHONE: 415-929-8876
EMAIL: eugencocoye@igc.org
WEBSITE: www.turn.org

2003 AMOUNT: \$90,000 DURATION: One year
To help implement renewable portfolio standards policies in California and New York.

2002 AMOUNT: \$45,000 DURATION: One year
To provide outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2001 AMOUNT: \$30,000 DURATION: One year
To advance a 20-percent renewables portfolio standard in California.

TIDES CENTER

Environmental Media Services-West
P.O. Box 29907
Presidio Building 1014
Lincoln Boulevard and Torney Avenue
San Francisco, CA 94129-0907
PHONE: 415-561-2325
WEBSITE: www.resource-media.org

2002 AMOUNT: \$27,698 DURATION: Six months
To fund a media and education effort on the benefits of a renewables portfolio standard.

2002 AMOUNT: \$26,000 DURATION: Six weeks
To support media work on the California Renewable Energy Education Campaign.

TIDES CENTER

The Regeneration Project
P.O. Box 29907
Presidio Building 1014
Lincoln Boulevard and Torney Avenue
San Francisco, CA 94129-0907

2002 AMOUNT: \$25,000 DURATION: One year
To support outreach to the religious community in support of renewable energy in California.

TIDES CENTER

The Vote Solar Initiative
Presidio Building 1014
Lincoln Boulevard and Torney Avenue
P.O. Box 29907
San Francisco, CA 94129-0907

2003 AMOUNT: \$50,000 DURATION: One year
To provide outreach, education, and technical assistance on ways cities can develop solar and clean-energy projects.

2002 AMOUNT: \$50,000 DURATION: One year
To promote the concept of the solar revenue bond, educate the public and the media, and work with city governments to craft financially viable bond packages.

UNION OF CONCERNED SCIENTISTS, INC.

Two Brattle Square
Cambridge, MA 02238-9105
PHONE: 617-547-5552
EMAIL: ucs@ucsusa.org
WEBSITE: www.ucsusa.org

2003 AMOUNT: \$500,000 DURATION: Two years
To continue to support a national renewable portfolio standard education and outreach effort.

2003 AMOUNT: \$300,000 DURATION: One year
To continue to promote renewable-energy policies at the federal level and in the Midwest, New England, and California.

2002 AMOUNT: \$134,000 DURATION: Six months
To conduct analysis on renewable energy and promote renewable energy through education and outreach to policymakers, the agricultural community, and the public.

2002 AMOUNT: \$350,000 DURATION: One year
To promote renewable-energy policies at the federal level and in the Midwest, New England, and California.

2002 AMOUNT: \$45,000 DURATION: One year
To provide outreach, analysis, and advocacy on the benefits of increased renewable energy in California.

2001 AMOUNT: \$230,000 DURATION: One year
To conduct analysis on renewable energy and promote renewable energy through education and outreach to policymakers, the agricultural community, and the public.

2001 AMOUNT: \$42,700 DURATION: Six months
To support UCS' efforts to develop, adapt, and analyze the costs and benefits of a renewable portfolio standard in California.

2001 AMOUNT: \$350,000 DURATION: One year
To support UCS' federal, regional, and state efforts to ensure the sustained commercial development of renewable energy.

UTAH CLEAN ENERGY ALLIANCE, INC.

917 Second Avenue
Salt Lake City, UT 84103
PHONE: 801-673-7156

WEBSITE: www.utahcleanenergy.org

2003 AMOUNT: \$40,000 DURATION: One year
To provide outreach to rural constituencies in Utah on the benefits of renewable energy and energy efficiency.

2003 AMOUNT: \$15,800 DURATION: Six months
To assist in the effective implementation of the Clean Energy programs created by the 2002 Farm Bill in Utah.

2003 AMOUNT: \$50,000 DURATION: One year
To coordinate advocacy activities for a renewable portfolio standard in Utah.

WASHINGTON PUBLIC INTEREST RESEARCH GROUP

3240 Eastlake Avenue, East, Suite 100
Seattle, WA 98102
PHONE: 206-568-2850

WEBSITE: www.washpirg.org

2003 AMOUNT: \$55,000 DURATION: One year
To support development of an energy efficiency and renewable-energy-portfolio standard in Washington.

2003 AMOUNT: \$75,000 DURATION: One year
To provide consumer outreach and coordination for the Washington Energy Portfolio Standard Campaign.

WASHOE LEGAL SERVICES

Washoe County Senior Law Project

650 Tahoe Street
Reno, NV 89509-1721
PHONE: 702-328-2592

WEBSITE: www.co.washoe.nv.us/seniorsrv/seniorlaw/legalresources.htm

2003 AMOUNT: \$5,000 DURATION: One year
To provide advocacy and informational services to advance energy efficiency and affordability programs for low-income households.

2001 AMOUNT: \$5,000 DURATION: One year
To recommend designs of public benefit funds for energy-efficiency programs that help low-income consumers in Nevada.

WESTERN COLORADO CONGRESS

7A North Cascade Avenue
P.O. Box 472
Montrose, CO 81402

PHONE: 970-249-1978

2003 AMOUNT: \$10,000 DURATION: One year
To establish a renewable portfolio standard in Colorado.

2003 AMOUNT: \$25,000 DURATION: One year
To plan and conduct grassroots outreach to rural Western Slope communities, and to build support for a Colorado renewable portfolio standard.

WESTERN ILLINOIS UNIVERSITY

Illinois Institute for Rural Affairs

One University Circle
Macomb, IL 61455-1390

PHONE: 309-298-1453

WEBSITE: www.wiu.edu

2003 AMOUNT: \$40,000 DURATION: One year
To educate rural leaders about opportunities for renewable-energy development in Illinois.

WESTERN RESOURCE ADVOCATES

2260 Baseline Road, Suite 200
Boulder, CO 80302-7740

PHONE: 303-444-1188

WEBSITE: www.westernresourceadvocates.org

2003 AMOUNT: \$200,000 DURATION: One year
To educate the public, media, and policymakers about the economic and environmental risks of building more conventional coal power plants in the West.

2003 AMOUNT: \$169,879 DURATION: Three years
To assist Native American communities in a multi-year effort to respond to oil and gas development in Montana and New Mexico.

2003 AMOUNT: \$42,000 DURATION: One year
To educate the public, media, and policymakers about the economic and environmental risks of building more conventional coal power plants in the West.

2003 AMOUNT: \$50,000 DURATION: One year
To support the launch of a transmission advocacy organization for the Western United States.

2003 AMOUNT: \$200,000 DURATION: One year
To continue to promote clean-energy policies in a six-state region of the Intermountain West.

2003 AMOUNT: \$426,825 DURATION: One year
To support the Western Coal Plants Campaign.

2003 AMOUNT: \$49,728 DURATION: One year
To support the Western Coal Plant Campaign.

2002 AMOUNT: \$224,000 DURATION: One year
To support the Western Voices project that aims to diversify and extend participation of the ranching, farming, and outdoor recreation communities in the national energy policy debate.

2002 AMOUNT: \$300,000 DURATION: One year
To promote clean-energy policies in a six-state region of the Intermountain West.

2001 AMOUNT: \$30,000 DURATION: One year
To support an education and outreach campaign for a national renewable portfolio standard.

2001 AMOUNT: \$75,000 DURATION: One year
To compile a renewable resource atlas for 11 western states.

2001 AMOUNT: \$130,000 DURATION: 10 months
To promote renewable energy in the Rocky Mountains and the Southwest.

2001 AMOUNT: \$175,000 DURATION: One year
To support continued efforts to develop a model set of approaches for promoting clean-energy technologies and reducing emissions in the Southwest.

WILDERNESS SOCIETY

1615 M Street, NW
Washington, DC 20036

PHONE: 202-833-2300

WEBSITE: www.wilderness.org

2003 AMOUNT: \$90,000 DURATION: Seven months
To assess and appropriately respond to the Bureau of Land Management's new energy exploration plans for the West.

WILDERNESS SOCIETY

Four Corners States Region
7475 Dakin Street, Suite 410
Denver, CO 80221

PHONE: 303-650-5818

2002 AMOUNT: \$10,000 DURATION: Seven months
To conduct two meetings to coordinate the efforts of national environmental groups and their western states regional partners in land-use planning and natural resource management.

WORLD RESOURCES INSTITUTE

10 G Street, NE, Suite 800
Washington, DC 20002

PHONE: 202-729-7600

WEBSITE: www.wri.org

2002 AMOUNT: \$55,200 DURATION: Five months
To analyze past studies on energy efficiency, energy policy, and energy alternatives.

2001 AMOUNT: \$25,000 DURATION: One year
To promote energy efficiency and renewable energy through education of policy-makers, focused outreach to major media outlets, and engagement of Fortune 500 company executives.

WYOMING OUTDOOR COUNCIL

262 Lincoln Street
Lander, WY 82520

PHONE: 307-332-7301

2002 AMOUNT: \$15,000 DURATION: Seven months
To launch a public education and advocacy campaign with the dissemination of WEST, Inc.'s Red Desert case study, and to work to protect the Red Desert from energy development.

TRANSPORTATION

The Energy Foundation promotes policies that reduce global-warming pollution from vehicles. Importantly, these policies can reduce oil consumption as well. Our program encourages better conventional technologies while also pressing for a rapid transition to advanced vehicles and fuels that offer extremely low emissions of greenhouse gases and conventional air pollutants.

The transportation sector constitutes one of the biggest challenges for reducing emissions of greenhouse gases. Transportation accounts for one-third of all energy use and carbon emissions in the United States. U.S. cars and light trucks alone produce more global-warming pollution than all of the sources combined in any other country except China, Russia, and Japan.

Standards for vehicle fuel-efficiency, established in 1975 in the wake of the first oil crisis, doubled the fuel economy of new cars by the mid-1980s, and increased light-truck fuel economy by about 50 percent. But national fuel-economy standards, largely unchanged since the mid-1980s, have fallen far behind technological capability. And as large, inefficient SUVs, pick-ups, and minivans have risen to about half of all new sales, we've gone backwards; the U.S. EPA reports that average new-vehicle fuel economy has fallen back to early-1980s levels.

At the same time, new technologies—continuously variable transmissions, variable valve lift and timing, cleaner diesels, hybrid electric-drive options like Toyota's Prius—have entered the market, offering major reductions in GHG emissions at low cost. And longer-term technologies, such as renewable hydrogen fuel cell vehicles and low-GHG biofuel options, are under development and showing promise. Policy leadership in Washington and in progressive states can capture the social benefits of these new technologies, spur further technology development and commercialization, and begin to rein in global-warming pollution from the transportation sector.

The Transportation Program makes grants to:

- reduce vehicle greenhouse gas emissions through national policies;
- promote advanced-technology vehicles and greenhouse-gas reduction programs in California, building on California's unique regulatory authority over vehicles; and
- promote similar state-level policies outside of California.

20/20 VISION EDUCATION FUND

1828 Jefferson Place, NW
Washington, DC 20036

PHONE: 202-833-2020

EMAIL: vision@igc.apc.org

WEBSITE: www.2020vision.org

2002 AMOUNT: \$25,000 DURATION: Six months

To publicize a new study of the employment impacts of raising fuel economy standards.

2001 AMOUNT: \$130,000 DURATION: Five months

To prepare an analysis of the energy, economic, and job impacts of raising CAFE standards.

2001 AMOUNT: \$20,000 DURATION: One year

To conduct grassroots outreach on the need for tighter CAFE standards.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036

PHONE: 202-429-8873

EMAIL: info@aceee.org

WEBSITE: www.aceee.org

2003 AMOUNT: \$15,000 DURATION: One year

To research relationships between vehicle size, weight, and safety.

2003 AMOUNT: \$18,991 DURATION: One year

To support ACEEE's transportation program in 2003.

2003 AMOUNT: \$180,000 DURATION: Two years

To promote higher national fuel economy standards, better consumer information, and other policies and programs that improve vehicle fuel efficiency.

2002 AMOUNT: \$15,000 DURATION: One year

To continue to develop and disseminate analyses of the relationships between vehicle size, weight, design, and safety.

2002 AMOUNT: \$90,000 DURATION: One year

To assist ACEEE's work to improve vehicle fuel efficiency through public policy and market-based programs.

2002 AMOUNT: \$14,000 DURATION: One year

To analyze relationships between vehicle size, fuel economy, and traffic safety.

2001 AMOUNT: \$90,000 DURATION: Eight months

To support efforts of ACEEE's Transportation Program to improve vehicle efficiency.

AMERICAN LUNG ASSOCIATION OF CALIFORNIA

424 Pendleton Way
Oakland, CA 94621

PHONE: 916-442-4446

WEBSITE: www.californialung.org

2003 AMOUNT: \$100,000 DURATION: One year

To advocate for policies in California that support advanced vehicles and reduce greenhouse-gas emissions from motor vehicles.

2002 AMOUNT: \$125,000 DURATION: One year

To introduce advanced, electric-drive technology vehicles into the U.S. fleet in significant, and increasing, volumes.

2001 AMOUNT: \$15,000 DURATION: Five months

To support the American Lung Association of California's Zero-Emission Vehicle Program.

2001 AMOUNT: \$100,000 DURATION: 15 months

To support California's ZEV Program by building a market for ZEVs and other advanced vehicles.

**AMERICAN LUNG ASSOCIATION
OF NEW YORK STATE, INC.**

Three Winners Circle, Suite 300
Albany, NY 12205
PHONE: 518-453-0172

WEBSITE: www.lungusa.org/newyork

2003 AMOUNT: \$75,000 DURATION: One year
To support New York's implementation of the California Motor Vehicle Program.

2002 AMOUNT: \$75,000 DURATION: One year
To speed commercialization of advanced vehicle technology by supporting New York State's Zero Emission Vehicle Program.

2001 AMOUNT: \$50,000 DURATION: One year
To support implementation of the California Vehicle Program in New York State.

BLUEWATER NETWORK

311 California Street, Suite 210
San Francisco, CA 94104
PHONE: 415-544-0790

WEBSITE: www.bluewaternetwork.org

2003 AMOUNT: \$50,000 DURATION: Six months
To conduct analysis of alternative fuel vehicle compliance options for California's regulation of vehicle greenhouse-gas emissions.

2002 AMOUNT: \$100,000 DURATION: Two years
To support Bluewater's Clean Car Campaign which over the next two years will advocate for strong implementation of California's new law to regulate greenhouse gases from motor vehicles.

2002 AMOUNT: \$45,000 DURATION: One year
To build public support for reducing petroleum use and greenhouse-gas emissions in California.

**BREAKTHROUGH
TECHNOLOGIES INSTITUTE**

1625 K Street, NW, #725
Washington, DC 20006
PHONE: 202-785-4222

WEBSITE: www.fuelcells.org

2003 AMOUNT: \$100,000 DURATION: One year
To educate the public and policymakers on the benefits of strong new EPA emissions standards for large non-road diesel equipment.

CENTER FOR A NEW AMERICAN DREAM

6930 Carroll Avenue, Suite 900
Takoma Park, MD 20912
PHONE: 301-891-3683

EMAIL: newdream@newdream.org

WEBSITE: www.newdream.org

2003 AMOUNT: \$40,000 DURATION: One year
To work with state and local governments to develop a cooperative purchase of tens of thousands of hybrid electric vehicles.

CENTER FOR AUTO SAFETY, INC.

1825 Connecticut Avenue, NW
Washington, DC 20009-5708
PHONE: 202-328-7700

2002 AMOUNT: \$29,000 DURATION: Five months
To assist the Center for Auto Safety to make information available on fuel economy and traffic safety.

CENTER FOR CLEAN AIR POLICY

750 First Street, NE, Suite 940
Washington, DC 20002
PHONE: 202-408-9260

WEBSITE: www.ccap.org

2003 AMOUNT: \$75,000 DURATION: One year
To support climate change plan development in Connecticut, New Jersey, and Canada.

**CENTER FOR ENERGY EFFICIENCY
AND RENEWABLE TECHNOLOGIES**

1100 11th Street, Suite 311
Sacramento, CA 95814
PHONE: 916-442-7785

EMAIL: info@ceert.org

WEBSITE: www.ceert.org

2003 AMOUNT: \$100,000 DURATION: One year
To promote state policies that reduce greenhouse-gas emissions from vehicles.

2003 AMOUNT: \$119,000 DURATION: One year
To inform California climate and motor vehicle policy with public opinion research.

2002 AMOUNT: \$110,000 DURATION: One year
To support CEERT's Cleaner Transportation Project, particularly its work on the California Zero Emissions Vehicle (ZEV) Program and pending California regulation of greenhouse gases from motor vehicles.

2002 AMOUNT: \$95,000 DURATION: One year
To promote policies that will reduce petroleum used by California's vehicle population.

2001 AMOUNT: \$54,000 DURATION: One year
To promote policies that will reduce the petroleum used by California's vehicle population.

**CENTER FOR PUBLIC INTEREST
RESEARCH, INC.**

State PIRGS

29 Temple Place
Boston, MA 02111

PHONE: 617-292-4800

2003 AMOUNT: \$100,000 DURATION: One year
To support clean car education campaigns in select states.

CLEAN AIR COUNCIL

135 South 19th Street, Suite 300
Philadelphia, PA 19103
PHONE: 215-567-4004

EMAIL: office@cleanair.org

WEBSITE: www.cleanair.org

2001 AMOUNT: \$80,000 DURATION: One year
To promote clean and efficient advanced vehicles in Pennsylvania and Delaware.

COALITION FOR CLEAN AIR

10780 Santa Monica Boulevard, Suite 210
Los Angeles, CA 90025
PHONE: 310-441-1544

EMAIL: airclean@igc.apc.org

WEBSITE: www.coalitionforcleanair.org

2003 AMOUNT: \$75,000 DURATION: One year
To advocate for policies in California that support advanced vehicles and reduce greenhouse-gas emissions from motor vehicles.

2002 AMOUNT: \$75,000 DURATION: One year
To expand the Coalition for Clean Air's Clean Transportation Advocacy Program which promotes advanced technology vehicles and petroleum reduction policies in California.

2001 AMOUNT: \$25,000 DURATION: One year
To support California's zero-emission-vehicle program.

EARTH ISLAND INSTITUTE

Bluewater Network

P.O. Box 29908 | Presidio Station
San Francisco, CA 94133

PHONE: 415-544-0790

WEBSITE: www.bluewaternetwork.org

2001 AMOUNT: \$34,000 DURATION: Five months
To support Bluewater Network's Global Warming Initiative.

ECOLOGY CENTER, INC

117 North Division
Ann Arbor, MI 48104
PHONE: 734-761-3186

2003 AMOUNT: \$65,000 DURATION: One year

To partner with the United Auto Workers to promote hybrid electric vehicles.

**ENVIRONMENTAL AND
ENERGY STUDY INSTITUTE**

122 C Street NW, Suite 630
Washington, DC 20001-2109

PHONE: 202-628-1400

EMAIL: eesi@eesi.org

WEBSITE: www.eesi.org

2003 AMOUNT: \$60,000 DURATION: One year
To strengthen the National Clean Bus Network and increase local and national support for clean, advanced technology buses.

2002 AMOUNT: \$60,000 DURATION: One year
To build broad-based support for federal clean bus funding during the reauthorization of the Transportation Equity Act of the 21st Century.

2001 AMOUNT: \$50,000 DURATION: One year
To promote clean and efficient bus technologies.

ENVIRONMENTAL DEFENSE, INC.

257 Park Avenue South, 17th Floor
New York, NY 10010

PHONE: 212-505-2100

EMAIL: edf@edf.org

WEBSITE: www.edf.org

2003 AMOUNT: \$90,000 DURATION: Four months
To encourage New Jersey to adopt the California Motor Vehicle Program.

2003 AMOUNT: \$350,000 DURATION: One year
To support the work of Environmental Defense, Inc.'s Clean Car Campaign nationally and in select states.

2002 AMOUNT: \$100,000 DURATION: One year
To support Environmental Defense's work to motivate the auto industry to manufacture and market significantly cleaner and more efficient passenger vehicles.

2001 AMOUNT: \$125,000 DURATION: One year
To support the Clean Car Campaign and fund Dr. John DeCicco to continue to support federal campaigns for tougher fuel economy standards.

INTERNATIONAL CENTER FOR TECHNOLOGY ASSESSMENT

666 Pennsylvania Avenue, SE, Suite 302
Washington, DC 20003
PHONE: 202-547-9359
EMAIL: office@icta.org
WEBSITE: www.icta.org

2002 AMOUNT: \$50,000 DURATION: One year
To call on the Environmental Protection Agency to regulate greenhouse-gas emissions from motor vehicles.

2001 AMOUNT: \$27,500 DURATION: Two months
To support the ZEV mandate through the 2000 Technology Review.

MARINE STUDIES CONSORTIUM

83 Chapel Street
Needham, MA 02492
PHONE: 781-444-3643

WEBSITE: www.brandeis.edu/marinestudies

2003 AMOUNT: \$15,000 DURATION: One year
To support a study on the economic costs of petroleum use in the transportation sector.

MASS PIRG EDUCATION FUND, INC.

29 Temple Place
Boston, MA 02111
PHONE: 617-292-4800

WEBSITE: www.masspirg.org

2003 AMOUNT: \$35,000 DURATION: One year
To encourage Massachusetts to adopt revisions to the California ZEV Rule and promote vehicle measures for the state's Climate Action Plan.

2002 AMOUNT: \$45,000 DURATION: One year
To support MASSPIRG's Clean Cars Campaign, which will promote successful implementation of the Low Emissions Vehicle II motor vehicle program in Massachusetts.

2002 AMOUNT: \$25,000 DURATION: Three months
To support the revised Zero Emissions Vehicle Program in Massachusetts.

MEDIA RESOURCE GROUP

1932 First Avenue, Suite 718
Seattle, WA 98101
PHONE: 206-374-7795

2003 AMOUNT: \$50,000 DURATION: Three months
To support media planning and outreach for the International Council on Clean Transportation.

MICHIGAN ENVIRONMENTAL COUNCIL

119 Pere Marquette Drive, Suite 2-A
Lansing, MI 48912-1270
PHONE: 517-487-9535

EMAIL: mec@voyager.net
WEBSITE: www.mienv.org

2003 AMOUNT: \$50,000 DURATION: One year
To explore priorities and areas of common interest with the United Auto Workers.

2001 AMOUNT: \$24,000 DURATION: One year
To support the Michigan Environmental Council's launch of the Michigan Environmental Auto Advisory Panel.

NATIONAL ENVIRONMENTAL TRUST

1200 18th Street, NW, Suite 500
Washington, DC 20036
PHONE: 202-887-8800

EMAIL: netinfor@environet.org
WEBSITE: www.environet.org

2003 AMOUNT: \$200,000 DURATION: One year
To continue strategic media outreach on federal fuel economy and energy security policies.

NATIONAL RELIGIOUS PARTNERSHIP FOR THE ENVIRONMENT, INC.

49 South Pleasant Street, Suite 301
Amherst, MA 01002
PHONE: 413-253-1515
EMAIL: nrpe@nrpe.org

2002 AMOUNT: \$285,000 DURATION: Two years
To fund the Project Director for the National Religious Partnership for the Environment's new Fuel Conservation and Efficiency Project.

2002 AMOUNT: \$221,000 DURATION: One year
To support National Religious Partnership for the Environment's new Fuel Conservation and Efficiency Project.

NATURAL RESOURCES COUNCIL OF MAINE

Three Wade Street
Augusta, ME 04330-6351
PHONE: 207-622-3101

EMAIL: nrcm@nrcm.org

WEBSITE: www.maineenvironment.org

2003 AMOUNT: \$30,000 DURATION: One year
To promote adoption of the ZEV Program and measures to reduce greenhouse gases from vehicles in Maine.

2002 AMOUNT: \$30,000 DURATION: One year
To support and extend the California motor vehicle program in Maine.

2001 AMOUNT: \$30,000 DURATION: One year
To promote clean and efficient cars in Maine.

NATURAL RESOURCES DEFENSE COUNCIL, INC.

40 West 20th Street
New York, NY 10011

PHONE: 212-727-2700

EMAIL: nrdcinfo@nrdc.org

WEBSITE: www.nrdc.org

2003 AMOUNT: \$36,000 DURATION: One year
To model the impact of global warming on ozone levels in three California cities.

2002 AMOUNT: \$100,000 DURATION: Two years
To provide legal defense for the California Zero Emissions Vehicle (ZEV) Program and California's new program to reduce greenhouse gases from motor vehicles.

2002 AMOUNT: \$100,000 DURATION: Two years
To cofund a comprehensive study of biomass as a major future energy source for the United States and assess policies that could accelerate a robust transition.

2002 AMOUNT: \$350,000 DURATION: Two years
To support the Natural Resources Defense Council to promote advanced technology vehicles and policies that reduce petroleum consumption in California and New York and in national policy.

2001 AMOUNT: \$40,600 DURATION: Six months
To fund a study of California's petroleum energy future at the Tellus Institute in support of NRDC's Petroleum Consumption Reduction Project.

2001 AMOUNT: \$40,000 DURATION: Four months
To hire a consultant—Tellus Institute—to complete a study on California's petroleum energy future and to publish the results.

2001 AMOUNT: \$175,000 DURATION: One year
To support NRDC's Clean Vehicles and Fuels Program.

NORTHEAST STATES FOR COORDINATED AIR USE MANAGEMENT, INC.

101 Merrimac Street
Boston, MA 02114
PHONE: 617-367-8540
WEBSITE: www.nescaum.org

2003 AMOUNT: \$150,000 DURATION: One year
To support adoption and implementation of the California motor vehicle program and other measures to promote advanced vehicles in the Northeast.

2002 AMOUNT: \$175,000 DURATION: One year
To continue support for NESCAUM's work on reducing greenhouse gas and other toxic emissions from vehicles.

2001 AMOUNT: \$180,000 DURATION: One year
To support programs encouraging clean and efficient advanced technology vehicles in the Northeast.

PCL FOUNDATION

926 J Street, Suite 612
Sacramento, CA 95814
PHONE: 916-444-8726

WEBSITE: www.pcl.org

2003 AMOUNT: \$15,000 DURATION: One year
To assist in the implementation of California's new law to regulate greenhouse gases from motor vehicles.

PUBLIC CITIZEN FOUNDATION, INC.

1600 20th Street, NW
Washington, DC 20009-1001
PHONE: 202-546-4996

WEBSITE: www.citizen.org

2003 AMOUNT: \$75,000 DURATION: One year
To fund a fuel economy campaign with a focus on rebutting flawed information about the relationship between fuel economy and safety.

2003 AMOUNT: \$25,000 DURATION: Three months
To educate the media and the public on vehicle size, safety, and fuel economy.

PUBLIC CITIZEN FOUNDATION, INC.

Public Citizen

215 Pennsylvania Avenue, SE
Washington, DC 20009-1001
PHONE: 202-588-7755

WEBSITE: www.citizen.org

2003 AMOUNT: \$110,000 DURATION: One year
To explore issues related to fuel economy and traffic safety and publicize findings.

PUBLIC CITIZEN FOUNDATION, INC.

Public Citizen Texas

215 Pennsylvania Avenue, SE
Washington, DC 20003
PHONE: 512-477-1155

EMAIL: public_citizen@citizen.org

WEBSITE: www.citizen.org

2002 AMOUNT: \$75,000 DURATION: 19 months
To promote clean and efficient vehicles in Texas.

PUBLIC INTEREST RESEARCH FOUNDATION OF NEW JERSEY

11 North Willow Street
Trenton, NJ 08608

PHONE: 609-394-8155

EMAIL: njpirg@pirg.org

WEBSITE: www.njpirg.org

2003 AMOUNT: \$111,000 DURATION: One year
To promote adoption of the California Motor Vehicle Program in New Jersey.

2002 AMOUNT: \$90,000 DURATION: One year
To support and promote clean and efficient advanced-technology vehicles in New Jersey.

2001 AMOUNT: \$80,000 DURATION: One year
To support and promote clean and efficient advanced-technology vehicles in New Jersey.

2001 AMOUNT: \$30,000 DURATION: Six months
To support NJPIRG's Clean Car Campaign.

QUEBEC LABRADOR FOUNDATION, INC.

P.O. Box 217
Montpelier, VT 05602

PHONE: 802-229-0707

EMAIL: atlantic@qlf.org

WEBSITE: www.qlf.org

2002 AMOUNT: \$25,000 DURATION: One year
To support Vermont's Zero-Emission Vehicle Program and bring clean, efficient advanced technology vehicles to Vermont consumers.

2001 AMOUNT: \$15,000 DURATION: One year
To support Vermont's Zero-Emission Vehicle program.

ROCKY MOUNTAIN INSTITUTE

1739 Snowmass Creek Road
Old Snowmass, CO 81654-9199

PHONE: 970-927-3851

WEBSITE: www.rmi.org

2002 AMOUNT: \$38,000 DURATION: One year
To educate industry, environmentalist groups, the media, and the public about Hypercar technology.

2001 AMOUNT: \$10,000 DURATION: Three months
To help Rocky Mountain Institute re-publish "Brittle Power", write op-eds, and prepare fact sheets on oil and energy security.

2001 AMOUNT: \$72,000 DURATION: One year
To support Hypercar-related outreach.

SIERRA CLUB FOUNDATION

85 Second Street, Suite 750
San Francisco, CA 94105

PHONE: 415-977-5500

EMAIL: information@sierraclub.org

WEBSITE: www.sierraclub.org/foundation

2003 AMOUNT: \$560,000 DURATION: Two years
To promote higher national fuel economy standards and encourage automakers to produce more fuel-efficient vehicles.

2002 AMOUNT: \$50,000 DURATION: Three months
To support the Challenge to Sprawl Campaign. The campaign supports the development of cleaner public transportation alternatives to increased road and highway construction.

2002 AMOUNT: \$280,000 DURATION: One year
To support the Sierra Club's efforts to build grassroots support for raising fuel-economy standards.

2001 AMOUNT: \$36,000 DURATION: Four months
To support a poll of citizens in Michigan on Corporate average fuel-economy standards.

2001 AMOUNT: \$220,000 DURATION: One year
To build support for stronger CAFE standards and otherwise pressure automakers to improve fuel economy.

TELLUS INSTITUTE

11 Arlington Street
Boston, MA 02116-3411

PHONE: 617-266-5400

WEBSITE: www.tellus.org

2003 AMOUNT: \$31,000 DURATION: Three months
To evaluate design options for a feebate program in Massachusetts to encourage purchase of fuel-efficient vehicles.

2003 AMOUNT: \$25,000 DURATION: Four months
To support a follow-up training workshop for the Light-Duty Vehicle Model Training.

2001 AMOUNT: \$46,000 DURATION: One year
To fund the development of a flexible model for analysis of the U.S. light-duty vehicle fleet.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, DAVIS

Institute of Transportation Studies

One Shields Avenue
Davis, CA 95616

PHONE: 530-752-6548

WEBSITE: www.its.ucdavis.edu

2003 AMOUNT: \$20,000 DURATION: Four months
To support research into how consumers make decisions about vehicle fuel-economy, size, power, and price.

TIDES CENTER

Environmental Media Services-West

P.O. Box 29907
Presidio Building 1014
Lincoln Boulevard and Torney Avenue
San Francisco, CA 94129-0907

PHONE: 415-561-2325

WEBSITE: www.resource-media.org

2002 AMOUNT: \$38,000 DURATION: Two months
To fund a media and education effort on the benefits of auto fuel efficiency.

TIDES CENTER

Environmental Policy Network

P.O. Box 29907
Presidio Building 1014
Lincoln Boulevard and Torney Avenue
San Francisco, CA 94129-0907

PHONE: 916-558-1516

EMAIL: epn@ns.net

WEBSITE: www.tides.org

2001 AMOUNT: \$90,000 DURATION: Six months
To support NRDC's Petroleum Consumption Reduction Project in California.

UNITED STATES PUBLIC INTEREST RESEARCH GROUP EDUCATION FUND

218 D Street, SE
Washington, DC 20003

PHONE: 202-546-9707

EMAIL: uspirg@pirg.org

WEBSITE: www.pirg.org

2003 AMOUNT: \$75,000 DURATION: One year
To promote more stringent national fuel-economy standards.

2002 AMOUNT: \$75,000 DURATION: One year
To support advocacy for higher fuel economy standards as part of USPIRG's Campaign to Stop Global Warming.

2001 AMOUNT: \$100,000 DURATION: One year
To promote clean and efficient advanced-technology vehicles.

UNION OF CONCERNED SCIENTISTS, INC.

Two Brattle Square
Cambridge, MA 02238-9105

PHONE: 617-547-5552

EMAIL: ucs@ucsusa.org

WEBSITE: www.ucsusa.org/transportation.html

2003 AMOUNT: \$35,000 DURATION: One year
To investigate the economic viability of greenhouse gas reduction offsets.

2003 AMOUNT: \$450,000 DURATION: Two years
To support UCS's Clean Vehicles Program, with a focus on national and California policy.

2002 AMOUNT: \$50,000 DURATION: Four months
To fund a national poll of pickup truck drivers.

2002 AMOUNT: \$65,000 DURATION: One year
To support two new consultant studies of the fuel economy and cost of hybrid electric vehicles and to summarize and release results in a report by Union of Concerned Scientists.

2002 AMOUNT: \$440,000 DURATION: 27 months
To expand UCS's Clean Vehicle Program with an emphasis on building coalition and public support for reducing greenhouse gases from motor vehicles and accelerating the commercialization of clean and efficient advanced technology vehicles.

2001 AMOUNT: \$49,000 DURATION: Four months
To analyze a forthcoming National Academy of Sciences report on CAFE standards and to educate the media and the public.

2001 AMOUNT: \$450,000 DURATION: Two years
To support UCS's Clean Vehicles Program, which promotes advanced technology vehicles, improvements in fuel economy of the conventional fleet, and cleaner trucks and buses.

NATIONAL POLICY AND ANALYSIS

The Energy Foundation supports policies to encourage energy efficiency and renewable energy that can substantially and cost-effectively reduce carbon emissions from U.S. energy use.

While individual policies are typically addressed within particular sectors of energy use—e.g., transportation, buildings, power—many aspects of the energy problem demand a broader, integrated perspective. How far can energy efficiency and renewable energy take this country? Which policies will have the largest long-term impact? At what cost or benefit?

Capturing the benefits of energy efficiency requires us to understand and correct market failures. What is the optimal level of federal support of R&D to spur innovation of the next generation of clean-energy technologies? What are the most efficient policies to protect public goods like clean air and a stable climate? What are the impacts of federal and state taxes and tax credits on energy-efficient technologies and renewable-energy markets?

The National Policy and Analysis Program is particularly interested in promoting:

- a tool kit of national policy solutions that advance efficiency and renewable technologies, reduce carbon, and are politically viable;
- robust federal budgets for energy efficiency and renewable-energy research, development, and deployment programs; and
- tax-policy designs that spur new markets for clean and efficient technologies.

ALLIANCE TO SAVE ENERGY

1200 18th Street, NW, Suite 900
Washington, DC 20036
PHONE: 202-857-0666
EMAIL: info@ase.org
WEBSITE: www.ase.org

2002 AMOUNT: \$400,000 DURATION: Two years
To conduct analysis and public outreach on the economic, energy, and air-quality benefits of national energy-efficiency policies.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 202-429-8873
EMAIL: info@aceee.org
WEBSITE: www.aceee.org

2003 AMOUNT: \$23,000 DURATION: Two months
To assist the Department of Energy in designing rules on a range of tax incentives and in conducting outreach and communications on the credits to stakeholders.

2003 AMOUNT: \$50,000 DURATION: One year
To help the U.S. Department of Agriculture improve the quantity and quality of farm-based energy-efficiency programs.

2003 AMOUNT: \$70,000 DURATION: Nine months
To continue to provide technical and economic analyses used to evaluate the cost-effectiveness of nationwide energy-policy options.

2003 AMOUNT: \$80,000 DURATION: One year
To continue to provide technical and economic analyses that evaluate the cost-effectiveness of nationwide energy-policy options.

2002 AMOUNT: \$60,000 DURATION: Six months
To analyze and promote the energy, environmental, and economic benefits of national energy-efficiency policies, including tax incentives for efficient cars, homes, and appliances; increased funding for federal clean-energy programs; and efficiency performance standards for power plants.

2002 AMOUNT: \$150,000 DURATION: Two years
To support ACEEE's work in analyzing and recommending policies and market-pull programs that increase energy efficiency in industrial facilities.

2001 AMOUNT: \$15,000 DURATION: Six months
To educate state and national decision-makers on the value of combined heat and power systems in meeting stringent air-emissions regulations.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY Southwest Energy Efficiency Project

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 303-447-0078
WEBSITE: www.swenergy.org

2001 AMOUNT: \$75,000 DURATION: One year
To analyze and promote policy options for clean-energy policies in the Intermountain West.

AMERICANS FOR EQUITABLE CLIMATE SOLUTIONS

1828 L Street, NW, Suite 1000
Washington, DC 20036
PHONE: 202-463-8934
EMAIL: eolson@aecs-inc.org
WEBSITE: www.aecs-inc.org

2003 AMOUNT: \$125,000 DURATION: One year
To support research and outreach on innovative approaches to pricing carbon emissions.

AMERICAN SOLAR ENERGY SOCIETY, INC.
Sustainable Energy Coalition
2400 Central Avenue G1
Boulder, CO 80301
PHONE: 202-293-2898
WEBSITE: www.sustainableenergy.org

2001 AMOUNT: \$50,000 DURATION: One year
To support the Sustainable Energy Coalition's efforts to support a statewide education campaign to promote new renewable-energy policies.

BLUEWATER NETWORK
311 California Street, Suite 510
San Francisco, CA 94104
PHONE: 415-544-0790
WEBSITE: www.bluewaternetnetwork.org
2002 AMOUNT: \$38,000 DURATION: Six months
To petition federal agencies to conduct long-term planning that accounts for the impacts of climate change.

CERES, INC.
Coalition for Environmentally Responsible Economics
99 Chauncy Street
Boston, MA 02111-1703
PHONE: 617-247-0700
WEBSITE: www.ceres.org
2003 AMOUNT: \$100,000 DURATION: One year
To build corporate and policymaker support for more stringent state and national policies that reduce greenhouse-gas emissions.
2003 AMOUNT: \$25,000 DURATION: Nine months
To provide support for the Institutional Investor Summit on Climate Risk.

CIVIL SOCIETY INSTITUTE, INC.
42 Glen Avenue
Newton, MA 02459
PHONE: 617-928-3408
WEBSITE: www.civilsocietyinstitute.org
2003 AMOUNT: \$75,000 DURATION: One year
To prepare technical research on the extent of utility liability for carbon emissions in the Northeast.

CLEAN AIR TASK FORCE, INC.
c/o Grants Management Associates
77 Summer Street, Eighth Floor
Boston, MA 02110
PHONE: 617-292-0234
2003 AMOUNT: \$35,000 DURATION: One year
To support research into coal gasification with carbon sequestration technologies.

ENVIRONMENTAL MEDIA SERVICES
1320 18th Street, NW, Suite 500
Washington, DC 20036
PHONE: 202-463-6670
WEBSITE: www.ems.org
2003 AMOUNT: \$30,000 DURATION: Eight months
To promote a primer on the practical means to achieve a hydrogen-based energy system.

FRIENDS OF THE EARTH
1717 Massachusetts Avenue, NW, Suite 600
Washington, DC 20036-2002
PHONE: 202-783-7400
EMAIL: foe@foe.org
WEBSITE: www.foe.org

2003 AMOUNT: \$45,000 DURATION: One year
To analyze proposed federal subsidies for the nuclear, fossil fuel, and ethanol industries and related Congressional campaign contributions.

GLOBAL ENVIRONMENT AND TECHNOLOGY FOUNDATION
Center for Energy and Climate Solutions
7010 Little River Turnpike, Suite 300
Arlington, VA 22206
PHONE: 703-750-6401
WEBSITE: www.getf.org
2003 AMOUNT: \$20,000 DURATION: Eight months
To promote a primer on the practical means to achieve a hydrogen-based energy system.
2003 AMOUNT: \$40,000 DURATION: One year
To research, write, and disseminate a primer on the practical means to achieve a hydrogen-based energy system.
2002 AMOUNT: \$85,000 DURATION: One year
To work with states to compare new methodologies that estimate air emission impacts of efficiency policies. The team will then work with federal policymakers to promote the best version as a national model.

HARVARD UNIVERSITY
OFFICE FOR SPONSORED RESEARCH
Center for Health and Global Environment
1350 Massachusetts Avenue
Cambridge, MA 02138-3800
PHONE: 617-384-8530
WEBSITE: www.med.harvard.edu/chge
2003 AMOUNT: \$100,000 DURATION: One year
To educate Washington, DC-area policymakers about climate change's impacts on public health, agriculture, and the environment.

HARVARD UNIVERSITY
OFFICE FOR SPONSORED RESEARCH
John F. Kennedy School of Government
79 John F. Kennedy Street
Cambridge, MA 02138-3800
PHONE: 617-495-1464
WEBSITE: www.ksg.harvard.edu
2002 AMOUNT: \$100,000 DURATION: Two years
To continue to assess the state of international research and development on technologies to abate climate change, and to recommend new R&D initiatives.

INSTITUTE FOR AMERICA'S FUTURE, INC.
1025 Connecticut Avenue, NW, Suite 205
Washington, DC 20036
PHONE: 202-955-5665
2003 AMOUNT: \$50,000 DURATION: One year
To develop a consensus between local labor and clean-energy advocates on policy recommendations for renewable portfolio standards.

INTERFAITH CENTER ON CORPORATE RESPONSIBILITY
475 Riverside Drive, Suite 550
New York, NY 10115
PHONE: 212-870-2984
WEBSITE: www.iccr.org
2003 AMOUNT: \$20,000 DURATION: One year
To support outreach to corporate executives, directors, and investors on the benefits of proactive climate change strategies.

MONTANA WILDERNESS ASSOCIATION, INC.
P.O. Box 635
Helena, MT 59624
PHONE: 406-443-7350
EMAIL: mwa@wildmontana.org
WEBSITE: www.wildmontana.org
2003 AMOUNT: \$15,000 DURATION: One year
To continue to advocate against oil and gas development in biologically sensitive regions of Montana through public education and outreach.

NATIONAL COMMISSION ON ENERGY POLICY
1616 H Street, NW, Sixth Floor
Washington, DC 20006
PHONE: 202-637-0400
2002 AMOUNT: \$400,000 DURATION: One year
To assist in the creation of a high-level, bipartisan commission to develop an environmentally and economically sound national energy policy.

REGENTS OF THE UNIVERSITY OF CALIFORNIA, BERKELEY
Energy and Resources Group
336 Sproul Hall
Berkeley, CA 94720-5940
PHONE: 510-642-1640
WEBSITE: socrates.berkeley.edu/~erg
2003 AMOUNT: \$150,000 DURATION: One year
To support the Energy and Resources Group as a fundamental resource for analysis and design of clean-energy policies.
2002 AMOUNT: \$150,000 DURATION: One year
To support the Energy and Resources Group as a premier training ground for analysis and design of clean-energy policies.
2001 AMOUNT: \$100,000 DURATION: One year
To support student and faculty analysis of national clean-energy policies.

STRATEGIES FOR THE GLOBAL ENVIRONMENT, INC.
Pew Center on Global Climate Change
2111 Wilson Boulevard, Suite 350
Arlington, VA 22201
PHONE: 703-516-4146
WEBSITE: www.pewclimate.org
2003 AMOUNT: \$40,000 DURATION: One year
To promote "Energy Scenarios for the 21st Century," an analysis of the technologies, policies, and investments needed to reduce carbon emissions over the long term.

CLIMATE

SUSTAINABLE ENERGY COALITION

1612 K Street, NW, Suite 202A
Washington, DC 20006

PHONE: 202-293-2898

WEBSITE: www.sustainableenergy.org

2003 AMOUNT: \$25,000 DURATION: One year

To support Washington, DC-area outreach efforts on energy efficiency and clean-energy policy solutions.

TRI-STATE COALITION FOR RESPONSIBLE INVESTMENT

52 Old Swartwood Station Road
Newton, NJ 07860

PHONE: 973-579-1732

2003 AMOUNT: \$20,000 DURATION: One year

To support outreach to corporate executives, directors, and investors on the benefits of proactive climate change strategies.

WORLD RESOURCES INSTITUTE

10 G Street, NE, Suite 800
Washington, DC 20002

PHONE: 202-729-7600

WEBSITE: www.wri.org

2003 AMOUNT: \$125,000 DURATION: One year

To develop measurement and reporting standards for corporate greenhouse-gas emissions, and promote the standards to businesses and policymakers.

2003 AMOUNT: \$50,000 DURATION: One year

To analyze the costs and benefits of developing hydrogen fuel sources from fossil fuels and clean-energy resources.

The Climate Program is a partnership of the David and Lucile Packard Foundation and the Energy Foundation. Its goal is to develop and promote U.S. state and regional policies to reduce global-warming pollution in order to build models for and momentum toward federal climate policy.

This program, new in 2003, is based on the evidence that states are taking the lead on defining U.S. climate policies. For example:

- California has created the nation's leading greenhouse-gas registry and directed its air regulators to reduce greenhouse gases from motor vehicles
- Massachusetts and New Hampshire are requiring CO2 reductions from their utilities
- New Jersey is on track to meet its goal of a 3.5 percent reduction in greenhouse-gas emissions from 1990 levels by 2005
- Oregon requires new gas-fired power plants to offset a portion of their CO2
- New England has set ambitious regional GHG-reduction goals and is exploring policy options for how to meet them

These emerging actions are the elements that will eventually comprise the U.S. response to climate change. States are the laboratories where climate policy experiments will be carried out. Furthermore, activity in the states will build the political base necessary to encourage strong climate policy at the federal level.

The policy and education efforts supported by this program are expressly focused on mitigating climate change. Potential areas of work include:

- State and regional carbon cap-and-trade programs;
- State and regional greenhouse-gas plans and targets;
- GHG reporting and reduction initiatives; and
- Financial mechanisms like incentives or carbon taxes.

AMERICANS FOR EQUITABLE CLIMATE SOLUTIONS

1828 L Street, NW, Suite 1000
Washington, DC 20036
PHONE: 202-463-8934
WEBSITE: www.aecs-inc.org

2002 AMOUNT: \$75,000 DURATION: One year
To promote auctioning carbon permits as the most efficient and equitable method of reducing carbon from electric utilities.

2001 AMOUNT: \$100,000 DURATION: One year
To support business outreach on the SkyTrust proposal to curb carbon emissions.

CALIFORNIA CLIMATE ACTION REGISTRY

515 South Flower Street, Suite 1305
Los Angeles, CA 90071
PHONE: 213-891-1444
WEBSITE: www.climateregistry.org

2003 AMOUNT: \$350,000 DURATION: Two years
To support the registry's collaboration with other states, and ongoing development of its reporting protocols.

2002 AMOUNT: \$225,000 DURATION: Nine months
To develop and execute outreach strategies with the goals of recruiting new participants, develop standards for greenhouse-gas accounting and reporting, and educate businesses and policymakers about the functions of the Registry.

CENTER FOR INTERNATIONAL ENVIRONMENTAL LAW, INC.
US Climate Action Network

1367 Connecticut Avenue, NW, Suite 300
Washington, DC 20036
PHONE: 202-785-8702

2003 AMOUNT: \$150,000 DURATION: Two years
To support coordination between state, regional, and national climate advocates.

CENTER FOR CLEAN AIR POLICY

750 First Street, NE, Suite 940
Washington, DC 20002
PHONE: 202-408-9260
WEBSITE: www.ccap.org

2002 AMOUNT: \$115,000 DURATION: One year
To support CCAP's work to align the Northeast and Mid-Atlantic states on climate change action.

2002 AMOUNT: \$25,000 DURATION: One year
To design a utility sector carbon cap-and-trade program for New York State.

CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES

California Climate Action
Registry Working Group
1100 11th Street, Suite 311
Sacramento, CA 95814
PHONE: 415-641-7080
WEBSITE: www.climateregistry.org

2001 AMOUNT: \$25,000 DURATION: Two months
To support the start-up of the California Climate Action Registry.

2001 AMOUNT: \$200,000 DURATION: One year
To continue support for CEERT's climate change work, and to support the start-up of California's voluntary greenhouse-gas registry.

CENTER FOR PUBLIC INTEREST RESEARCH, INC.

29 Temple Place
Boston, MA 02111
PHONE: 617-292-4800

2003 AMOUNT: \$150,000 DURATION: One year
To support the New England Climate Action Project, a coalition working on regional policy solutions to climate change.

2002 AMOUNT: \$50,000 DURATION: One year
To support follow-up work on a New England Governors / Eastern Canadian Premiers climate resolution.

CERES, INC.

Coalition for Environmentally
Responsible Economics
99 Chauncy Street
Boston, MA 02111-1703
PHONE: 617-247-0700
WEBSITE: www.ceres.org

2002 AMOUNT: \$100,000 DURATION: One year
To support the Sustainable Governance Project, which posits climate change as a matter of fiduciary responsibility for major companies.

2001 AMOUNT: \$200,000 DURATION: One year
To persuade the boards of directors of large companies about the benefits of aggressive action to reduce carbon emissions.

2001 AMOUNT: \$90,000 DURATION: 18 months
To support studies of corporate CO₂ emissions in particular sectors.

CITIZENS FOR PENNSYLVANIA'S FUTURE

610 North Third Street
Harrisburg, PA 17101
PHONE: 717-214-7920
EMAIL: info@pennfuture.org
WEBSITE: www.pennfuture.org

2003 AMOUNT: \$85,000 DURATION: One year
To support climate change advocacy in Pennsylvania.

CLEAN AIR COOL PLANET, INC., A NORTHEAST ALLIANCE

100 Market Street, Suite 204
Portsmouth, NH 03801
PHONE: 603-422-6464
WEBSITE: www.cleanair-coolplanet.org

2003 AMOUNT: \$100,000 DURATION: One year
To support Clean Air-Cool Planet's Climate Advocacy Program, building support for climate change policies in New Hampshire, Connecticut, and region-wide.

2003 AMOUNT: \$40,000 DURATION: One year
To generate public support for action on climate change in New Hampshire.

2001 AMOUNT: \$300,000 DURATION: Two years
To support Clean Air-Cool Planet's business outreach work.

CLEAN AIR TASK FORCE, INC.

c/o Grants Management Associates
77 Summer Street, Eighth Floor
Boston, MA 02110
PHONE: 617-292-0234
WEBSITE: www.catf.us

2003 AMOUNT: \$35,000 DURATION: One year
To provide technical support for state climate advocates in Pennsylvania, Ohio, and North Carolina.

CLIMATE NEUTRAL NETWORK

155 B Avenue, Suite 220
Lake Oswego, OR 97034
PHONE: 503-697-2798
WEBSITE: www.climateneutral.com

2002 AMOUNT: \$135,000 DURATION: One year
To support the efforts of the Climate Neutral Network to have companies eliminate their climate impact by purchasing environmentally credible emissions offsets.

2001 AMOUNT: \$225,000 DURATION: One year
To support the Climate Neutral Network's certification process and media outreach.

COLORADO COALITION FOR NEW ENERGY TECHNOLOGIES

7725 Malamute Trail
Evergreen, CO 80439
PHONE: 303-649-9331
WEBSITE: www.newenergytechnologies.org/colorado

2002 AMOUNT: \$75,000 DURATION: One year
To support clean-energy business coalitions in Colorado, Arizona, New Mexico, and Utah.

CLIMATE SOLUTIONS

610 E. 4th Avenue
Olympia, WA 98501
PHONE: 360-352-1763
EMAIL: info@climatesolutions.org
WEBSITE: www.climatesolutions.org

2003 AMOUNT: \$200,000 DURATION: Two years
To advocate for strong climate plans in Washington and Oregon.

2003 AMOUNT: \$50,000 DURATION: Seven months
To advocate for a leadership role for the Pacific Northwest states on climate change policy.

2001 AMOUNT: \$12,000 DURATION: Six months
To promote a clean-energy market analysis and policy blueprint for the Pacific Northwest.

**CONSERVATION LAW
FOUNDATION, INC.**

62 Summer Street
Boston, MA 02110-1008
PHONE: 617-350-0990
EMAIL: issues@clf.org
WEBSITE: www.clf.org

2003 AMOUNT: \$40,000 **DURATION:** Six months
To intervene in rulemakings on the CO₂ trading provisions of Massachusetts' "four-pollutant" utility regulations.

**ENTERPRISING ENVIRONMENTAL
SOLUTIONS, INC.**

22 Terminal Way
Pittsburg, PA 15219-1209
PHONE: 412-481-9400
WEBSITE: www.eesi21.org

2003 AMOUNT: \$34,000 **DURATION:** Seven months
To assess options for a credible greenhouse-gas registry for Pennsylvania.

**ENVIRONMENTAL ADVOCATES OF
NEW YORK, INC.**

353 Hamilton Street
Albany, NY 12210
PHONE: 518-462-5526
WEBSITE: www.eany.org

2003 AMOUNT: \$50,000 **DURATION:** Six months
To support climate policy efforts in the Northeast.
2002 AMOUNT: \$50,000 **DURATION:** Six months
To support development of a strong greenhouse-gas reduction plan for New York State.

**ENVIRONMENTAL AND
ENERGY STUDY INSTITUTE**

122 C Street NW, Suite 630
Washington, DC 20001-2109
PHONE: 202-628-1400
EMAIL: cesi@eesi.org
WEBSITE: www.eesi.org

2001 AMOUNT: \$40,000 **DURATION:** One year
To educate agri-businesses about the potential for farm-based clean energy, and to educate policymakers about farm-friendly low-carbon policies.

ENVIRONMENTAL DEFENSE, INC.

257 Park Avenue South, 17th Floor
New York, NY 10010
PHONE: 212-505-2100
EMAIL: edf@edf.org
WEBSITE: www.edf.org

2003 AMOUNT: \$170,000 **DURATION:** One year
To support the Partnership for Climate Action, a group of companies committed to aggressive greenhouse-gas reductions.

2003 AMOUNT: \$25,000 **DURATION:** One year
To provide technical assistance to the California Registry.

2001 AMOUNT: \$800,000 **DURATION:** Two years
To support the Partnership for Climate Action, a group of companies committed to large-scale, long-term carbon reductions.

**ENVIRONMENTAL LAW AND POLICY
CENTER OF THE MIDWEST**

35 East Wacker Drive, Suite 1300
Chicago, IL 60601
PHONE: 312-673-6500
WEBSITE: www.elpc.org

2001 AMOUNT: \$75,000 **DURATION:** One year
To expand the Global Warming Leadership Council, a business coalition dedicated to promoting clean energy in the Midwest.

**GLOBAL ENVIRONMENT AND
TECHNOLOGY FOUNDATION**

Center for Energy and Climate Solutions
7010 Little River Turnpike, Suite 300
Annandale, VA 22003-3241
PHONE: 703-750-6401
WEBSITE: www.getf.org

2003 AMOUNT: \$150,000 **DURATION:** One year
To support the Center for Energy and Climate Solutions' work with companies to reduce their carbon emissions.

**GLOBAL LEGISLATORS ORGANIZATION
FOR A BALANCED ENVIRONMENT U.S.A.**

1636 R Street, NW, Third Floor
Washington, DC 20009
PHONE: 202-293-9090
WEBSITE: www.globeusa.org

2001 AMOUNT: \$30,000 **DURATION:** Three months
To support a clean-energy conference for U.S. and international policymakers.

**INSTITUTE FOR AGRICULTURE
AND TRADE POLICY**

2105 First Avenue South
Minneapolis, MN 55404
PHONE: 612-870-0453
EMAIL: mritchie@iatp.org
WEBSITE: www.iatp.org/iatp

2001 AMOUNT: \$50,000 **DURATION:** One year
To build support in the Midwest for climate-friendly agricultural policies.

KEYSTONE CENTER

1628 Sts. John Road
Keystone, CO 80435
PHONE: 970-513-5800
WEBSITE: www.keystone.org

2001 AMOUNT: \$250,000 **DURATION:** One year
To support a dialogue between corporations and NGOs on greenhouse-gas reduction pathways.

NATURAL RESOURCES COUNCIL OF MAINE

Three Wade Street
Augusta, ME 04330-6351
PHONE: 207-622-3101
EMAIL: nrccm@nrccm.org
WEBSITE: www.maineenvironment.org

2003 AMOUNT: \$30,000 **DURATION:** One year
To support climate-policy efforts in the Northeast.

2002 AMOUNT: \$300,000 **DURATION:** One year
To support the center's work with businesses to save energy and money through best energy practices.

2001 AMOUNT: \$300,000 **DURATION:** One year
To support the center's work with businesses to save energy and money through best energy practices.

NATIONAL ENVIRONMENTAL TRUST

1200 18th Street, NW, Suite 500
Washington, DC 20036
PHONE: 202-887-8800
EMAIL: netinfo@environet.org
WEBSITE: www.environet.org

2002 AMOUNT: \$100,000 **DURATION:** One year
To continue NET's efforts to earn coverage of clean-energy solutions in the business media.

**NATURAL RESOURCES DEFENSE
COUNCIL, INC.**

40 West 20th Street
New York, NY 10011
PHONE: 212-727-2700
EMAIL: nrdfinfo@nrdf.org
WEBSITE: www.nrdc.org

2003 AMOUNT: \$300,000 **DURATION:** Two years
To advocate for a carbon cap-and-trade system in the Northeast, and to strengthen the West Coast Climate Initiative.

2002 AMOUNT: \$75,000 **DURATION:** One year
To support NRDC's work on state carbon registries, and other state and regional carbon reduction policies.

2001 AMOUNT: \$100,000 **DURATION:** One year
To continue their efforts to develop sound state-level greenhouse-gas registries.

**NORTHEAST STATES FOR COORDINATED
AIR USE MANAGEMENT, INC.**

101 Merrimac Street
Boston, MA 02114
PHONE: 617-367-8540
WEBSITE: www.nescaum.org

2003 AMOUNT: \$200,000 **DURATION:** Two years
To develop a greenhouse-gas registry for the Northeast states that is compatible with the California Climate Action Registry.

2002 AMOUNT: \$60,000 **DURATION:** One year
To develop inventories, registries, and other tools in support of the New England regional greenhouse-gas reduction goal.

2001 AMOUNT: \$157,000 **DURATION:** One year
To support NESCAUM's work on a Northeast regional goal for greenhouse-gas reduction, and to support the Small and Cool business program.

OHIO ENVIRONMENTAL COUNCIL

1207 Grandview Avenue, Suite 201
Columbus, OH 43212
PHONE: 614-487-7506
EMAIL: oec@theoec.org
WEBSITE: www.theoec.org

2003 AMOUNT: \$50,000 DURATION: One year
To develop a climate action plan for Ohio based on new technological opportunities.

PACIFIC FOREST TRUST

P.O. Box 879
Santa Rosa, CA 95403
PHONE: 707-578-9950

2003 AMOUNT: \$25,000 DURATION: One year
To develop a forest carbon reporting protocol for the California Registry.

PENNSYLVANIA ENVIRONMENTAL COUNCIL, INC.

22 Terminal Way
Pittsburgh, PA 15219
PHONE: 412-481-9400
WEBSITE: www.pccpa.org

2003 AMOUNT: \$50,000 DURATION: 21 months
To develop a Climate Change Roadmap for Pennsylvania, in consultation with key stakeholders.

NW ENERGY COALITION

219 First Avenue South, Suite 100
Seattle, WA 98104-2599
PHONE: 206-621-0094
EMAIL: nwec@nwenergy.org
WEBSITE: www.nwenergy.org

2003 AMOUNT: \$80,000 DURATION: One year
To work with Climate Solutions in an effort to educate officials and the public on the benefits of a CO₂ standard for power plants in Washington State.

PUBLIC CITIZEN FOUNDATION

Public Citizen Texas
215 Pennsylvania Avenue, SE
Washington, DC 20003
PHONE: 512-477-1155
EMAIL: public_citizen@citizen.org
WEBSITE: www.citizen.org

2001 AMOUNT: \$45,000 DURATION: One year
To support advocacy for a strong statewide global-warming plan in Texas.

RAND CORPORATION

1700 Main Street
P.O. Box 2138
Santa Monica, CA 90407-2138
PHONE: 310-393-0411
WEBSITE: www.rand.org

2001 AMOUNT: \$100,000 DURATION: Nine months
To analyze the economic and environmental benefits of energy-efficiency improvements in various states.

REDEFINING PROGRESS

1904 Franklin Street, Sixth Floor
Oakland, CA 94612
PHONE: 510-444-3041
EMAIL: info@rprogress.org
WEBSITE: www.rprogress.org

2003 AMOUNT: \$30,000 DURATION: Four months
To develop proposals for state carbon taxes in the context of state budget deficits.

2001 AMOUNT: \$20,000 DURATION: Six months
To promote Redefining Progress' work on carbon taxes and environmental tax reform in the business community.

SOUTHERN ALLIANCE FOR CLEAN ENERGY

P.O. Box 1842
Knoxville, TN 37901-1842
PHONE: 865-637-6055
EMAIL: sasmith@tngreen.com
WEBSITE: www.cleanenergy.org

2003 AMOUNT: \$100,000 DURATION: One year
To educate policymakers about near-term steps North Carolina can take on climate change.

STRATEGIES FOR THE GLOBAL ENVIRONMENT, INC. Pew Center on Global Climate Change

2111 Wilson Boulevard, Suite 350
Arlington, VA 22201
PHONE: 703-516-4146
WEBSITE: www.pewclimate.org

2001 AMOUNT: \$200,000 DURATION: 18 months
To support a series of reports linking energy policy and climate change.

UNION OF CONCERNED SCIENTISTS, INC.

Two Brattle Square
Cambridge, MA 02238-9105
PHONE: 617-547-5552
EMAIL: ucs@ucsusa.org
WEBSITE: www.ucsusa.org/transportation.html

2001 AMOUNT: \$23,400 DURATION: Six months
To enhance UCS's modeling of federal clean-energy policies.

UNIVERSITY OF COLORADO FOUNDATION, INC.

University of Colorado at Denver
1202 University Avenue
Boulder, CO 80306-1140
PHONE: 303-352-3768
WEBSITE: www.cudenver.edu/cbep

2002 AMOUNT: \$50,000 DURATION: One year
To support the Colorado Business Energy Partnership, which works with Colorado-based companies on carbon reduction projects.

2001 AMOUNT: \$100,000 DURATION: One year
To continue its project with Rocky Mountain corporations on reducing energy use and carbon emissions.

WESTERN RESOURCE ADVOCATES

2260 Baseline Road, Suite 200
Boulder, CO 80302-7740
PHONE: 303-444-1188
WEBSITE: www.westernresourceadvocates.org

2001 AMOUNT: \$60,000 DURATION: One year
To support the Colorado Coalition for New Energy Technologies, a group of companies that support clean-energy policies.

WORLD RESOURCES INSTITUTE

10 G Street, NE, Suite 800
Washington, DC 20002
PHONE: 202-729-7600
WEBSITE: www.wri.org

2001 AMOUNT: \$150,000 DURATION: One year
To support the Green Power Market Development Group, a group of large companies committed to large-scale, long-term renewable-energy purchases.

2001 AMOUNT: \$200,000 DURATION: Two years
To support development of a measurement and reporting protocol for corporate greenhouse-gas emissions.

2001 AMOUNT: \$50,000 DURATION: One year
To support modeling and outreach on climate-friendly agricultural policies.

WORLD WILDLIFE FUND

1250 24th Street, NW
P.O. Box 9780
Washington, DC 20037-1193
PHONE: 202-293-4800

WEBSITE: www.worldwildlife.org

2003 AMOUNT: \$65,000 DURATION: One year
To support the Climate Savers Program.

2002 AMOUNT: \$130,000 DURATION: One year
To support Climate Savers, a program for companies to make industry-leading CO₂ reduction commitments.

2001 AMOUNT: \$200,000 DURATION: One year
To support the Climate Savers program, which assists companies in setting long-term CO₂ reduction targets.

CHINA

THE CHINA SUSTAINABLE ENERGY PROGRAM

The China Sustainable Energy Program (CSEP) supports China's policy efforts to increase energy efficiency and renewable energy. CSEP works in six sectors: buildings, industry, electric utilities, renewable energy, transportation, and low-carbon development paths. The program strives to build capacity in China to analyze energy-saving and renewable-energy opportunities, and to support policies, in accordance with China's policy priorities, and to capture those opportunities. The program is geared toward helping Chinese agencies, experts, and entrepreneurs solve energy challenges for themselves, bringing in international expertise when requested.

BUILDINGS PROGRAM

The goal of the Buildings Program is to encourage building codes and appliance energy-efficiency standards. The program supports residential and commercial building-codes development in Central and South China. This includes supporting standards development, energy-efficient building design and operations, and codes implementation and enforcement.

The program aims to help China attain its goal of reducing energy consumption from household appliances and equipment through standards and labels. The program supports the training of government research institutes and advocates in appliance standards and energy-labels development; it seeks to respond to China's priority of developing, adopting, and implementing at least one new appliance standard and supporting labeling regime per year.

INDUSTRY PROGRAM

The Industrial Efficiency Program supports China's goal to decrease energy consumption in large industrial enterprises through audits, benchmarking, energy management standards, and sector targets. The program encourages adoption nationally of at least two of these policies within one of the most energy-consumptive sectors, such as cement, iron and steel, or petrochemicals. In addition, the program supports China's efforts to attain its goal of building 3,000 megawatts of new cogeneration facilities per year by developing a comprehensive cogeneration policy framework.

ELECTRIC UTILITIES PROGRAM

The Electric Utilities Program supports China's efforts to shift power-sector investments away from fossil-fuel-based electricity generation and toward end-use energy efficiency and renewable energy. The program focuses on developing demand-side management policies, public benefits wires charges, clean-energy technology tax incentives, distributed-generation policy mechanisms, integrated resource planning policy development, etc. The program also supports strong air emissions and energy-efficiency regulations, such as output-based "generation performance standards" which limit power plant emissions on an electricity production basis. The Electric Utilities Program is responsive to provincial efforts to develop and implement energy efficiency and renewable-energy policy pilots to serve as national examples.

RENEWABLE ENERGY PROGRAM

The Renewable Energy Program supports China's policy efforts to encourage bulk purchases of renewable energy by China's electric utilities and independent power producers in order to drive down costs and speed adoption of renewable-energy technologies. The program encourages the development and implementation of new renewable-energy policies that establish aggressive targets for national and provincial renewable-energy deployment, including renewable portfolio standards, public benefits wires charges, incentives for distributed renewable generation technologies, and renewable-energy pricing regulations.

TRANSPORTATION PROGRAM

China's motor vehicle fleet is growing at some 20 percent per year. The Transportation Program supports China's policy efforts to reduce carbon emissions and improve air quality from the transportation sector by promoting cleaner vehicles and cost-effective Bus Rapid Transit systems (BRT). This includes policy development to encourage advanced, electric-drive vehicles through augmented research and development budgets, tighter vehicle-emissions regulations, and stringent fuel-economy standards. The program supports efforts to establish robust local air emissions monitoring policies and local "zero-emissions vehicle" incentives to encourage the most advanced electric and hybrid-electric drive automobiles and buses. The program also responds to the urgent need for transportation-system reform in Chinese cities by encouraging the establishment of BRT systems.

LOW-CARBON DEVELOPMENT PATHS

Thinking about China's energy future demands an integrated perspective. What contribution can energy efficiency and renewable energy make to China's development goals? What are the employment impacts of different energy policies? What are the public health costs associated with pursuing energy supplies based on coal as opposed to energy efficiency or renewable energy?

The Low-Carbon Development Paths Program takes an integrated approach to assisting China to reduce the social costs associated with fossil-fuel combustion by addressing the economic framework in which energy decisions are made. The program supports China's policy efforts to create economic signals that promote energy efficiency and renewable-energy goals, such as analyzes that quantify and publicize the social, environmental, and public health costs of fossil fuel combustion, as well as policies including specific tax, fiscal, and/or economic policies that promote speedy adoption of "all-in" costs energy pricing. In addition, the Program supports the development of sustainable energy futures scenarios and the policies necessary to achieve them in China. For example, the program has supported scenarios for China's carbon emissions over the 2000-2020 time frame, which articulate the policies necessary for achieving maximum cost-effective carbon reductions.

APPLICATION INFORMATION

A more detailed description of the China Program is available from the Energy Foundation, along with a special application form. These materials are also available at www.efchina.org. Please contact us for this material if you are interested.

FOR MORE INFORMATION CONTACT:

FOR CHINA-BASED ORGANIZATIONS:

The China Sustainable Energy Program
The Energy Foundation-Beijing Office
CITIC Building, Room 2403
No. 19, Jianguomenwai Dajie
Beijing, 100004 P.R. China
PHONE: 86-10-8526-2422, 2423, 2424
FAX: 86-10-6525-3764
EMAIL: china@ef.org
WEBSITE: www.efchina.org

FOR ALL OTHERS:

The China Sustainable Energy Program
The Energy Foundation
1012 Torney Avenue, #1
San Francisco, CA 94129 U.S.A.
PHONE: 415-561-6700
FAX: 415-561-6709
EMAIL: energyfund@ef.org
WEBSITE: www.efchina.org

CHINA | BUILDINGS

ALLIANCE TO SAVE ENERGY

1200 18th Street, NW, Suite 900
Washington, DC 20036
PHONE: 202-857-0666
EMAIL: info@ase.org
WEBSITE: www.ase.org

2002 AMOUNT: \$30,000 **DURATION:** One year
To conduct focus groups and determine an endorsement label design that will encourage consumer purchases of energy-savings products.

2002 AMOUNT: \$7,740 **DURATION:** One year
To assist China in designing an energy information label and labeling regulatory framework for appliances and equipment.

2001 AMOUNT: \$46,000 **DURATION:** One year
To establish an industry-based windows collaborative in China and to participate in related building energy code development and implementation.

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 202-429-8873
EMAIL: info@aceee.org
WEBSITE: www.aceee.org

2003 AMOUNT: \$20,000 **DURATION:** One year
To support capacity building for improving the implementation of appliance energy-efficiency standards in China.

2002 AMOUNT: \$19,430 **DURATION:** One year
To bring key Chinese government decision-makers and experts to the ACEEE Summer Study on buildings energy efficiency. The Summer Study is one of the leading conferences on residential and commercial energy efficiency in the world.

2002 AMOUNT: \$45,000 **DURATION:** One year
To conduct an analysis of the substantial public benefits that could result from a more comprehensive and rapid implementation of appliance equipment standards in China over the next 10 years.

CHINA BUILDING ENERGY EFFICIENCY ASSOCIATION

One Xinhua Road, Nanyuan
Beijing, 100076 P.R.China
PHONE: 86-10-6796-0360
EMAIL: fxtu@public.nta.net.cn

2003 AMOUNT: \$50,000 **DURATION:** 16 months
To assist China in developing a national commercial building code and in implementing the residential building codes, both targeting the central China "hot-summer cold-winter" climate zone.

2001 AMOUNT: \$30,000 **DURATION:** Two years
To support China's efforts to develop a residential building energy code in its southern "hot-summer, warm-winter" climate zone, including the provinces of Guangdong, Fujian, Guangxi, and Hainan.

CHINA CERTIFICATION CENTER FOR ENERGY CONSERVATION PRODUCT

No. 3 Yuhuananlu, Chaoyang District
Beijing, 100029 P.R.China
PHONE: 86-10-6496-4191

WEBSITE: www.cecp.org.cn

2003 AMOUNT: \$40,000 DURATION: One year
To assist China in developing an energy-efficiency standard and labeling program for power supplies.

2003 AMOUNT: \$40,000 DURATION: One year
To support analysis of China's standby power consumption (electricity use while appliances are in "off" mode) and to develop energy-efficiency standards for VCD, DVD, and photocopier equipment.

2002 AMOUNT: \$25,000 DURATION: One year
To conduct focus groups and determine an endorsement label design that will encourage consumer purchases of energy saving products.

2002 AMOUNT: \$55,000 DURATION: One year
To develop and implement Chinese government procurement policies for energy efficient products.

2001 AMOUNT: \$40,000 DURATION: One year
To support the center's development of standby power energy-efficiency and labeling standards.

2001 AMOUNT: \$11,000 DURATION: Six months
To help develop attention in China to standby power losses from consumer appliances in conjunction with the development of national standards and labeling strategies.

CHINA HOUSEHOLD ELECTRIC APPLIANCES ASSOCIATION

No. 6 Chang'an East Avenue
Beijing, 100740 P.R.China
PHONE: 86-10-6523-1813

2003 AMOUNT: \$25,000 DURATION: One year
To support capacity building for improving the implementation of appliance energy-efficiency standards in China.

CHINA NATIONAL INSTITUTE OF STANDARDIZATION

No. 3 Yu Hui South Road, Chaoyang District
Beijing, 100029 P.R.China
PHONE: 86-10-8463-1031
EMAIL: liax@cecp.org.cn
WEBSITE: www.cnis.gov.cn

2002 AMOUNT: \$40,000 DURATION: 17 months
To assist China's development of energy-efficiency standards for color television sets.

2002 AMOUNT: \$80,000 DURATION: Two years
To assist China to develop "reach" energy-efficiency standards for refrigerators and room air-conditioners, such that efficiency standards are set at levels reaching the best unit efficiencies available (and significantly above market averages).

2002 AMOUNT: \$55,000 DURATION: One year
To conduct an analysis of the substantial public benefits that could result from a more comprehensive and rapid implementation of appliance and equipment standards in China over the next 10 years.

2002 AMOUNT: \$50,420 DURATION: One year
To assist China in developing a policy framework for mandatory energy information labels and to design those labels based on consumer and market research.

2001 AMOUNT: \$7,000 DURATION: One year

To support the development of an efficiency standard for two gas appliances in Chongqing which will provide the groundwork for the future development of national standards.

2001 AMOUNT: \$16,000 DURATION: Three months
To support an international workshop co-hosted by the China National Institute of Standardization and the International Energy Agency on international best practices in appliance-efficiency standards and consumer labeling.

2001 AMOUNT: \$60,000 DURATION: One year
To develop a national energy-efficiency standard for washing machines.

CHONGQING CONSTRUCTION TECHNOLOGY DEVELOPMENT CENTER

69 Shangqinshi Road, 7th Floor
Yuzhong District
Chongqing, 400015 P.R.China
PHONE: 86-23-6361-2456/6385-2456
EMAIL: dongmn@sina.com

2003 AMOUNT: \$50,000 DURATION: One year
To assist China in developing incentive policies and market-driven programs for building code implementation in the Hot-Summer Cold-Winter region.

CHONGQING UNIVERSITY

83 North Street, Shapingba
Chongqing, 400045 P.R.China

2003 AMOUNT: \$15,720 DURATION: One year
To support development of energy-efficiency standards for gas appliances in Chongqing, which could serve as a model for national replication.

CHONGQING UNIVERSITY

City Construction Institute
Chongqing, 400045 P.R.China
PHONE: 86-23-6512-4777

2001 AMOUNT: \$16,280 DURATION: One year
To support the Chinese Sustainable Energy Research Programme for the improvement of utilization efficiency of domestic gas.

GUANGDONG PROVINCIAL ACADEMY OF BUILDING RESEARCH

No. 121 Xianliedonglu
Guangzhou, 510500 P.R.China
PHONE: 86-20-8725-5349

2003 AMOUNT: \$40,000 DURATION: One year
To continue supporting the China Energy Efficient Windows Initiative to achieve the goal of helping the Chinese window industry to influence energy building codes and construction practices to include energy-efficient fenestration products.

LAWRENCE BERKELEY NATIONAL LABORATORY

One Cyclotron Road
Berkeley, CA 94720
PHONE: 510-486-5000
WEBSITE: eetd.lbl.gov/ea/china/index.html

2003 AMOUNT: \$65,300 DURATION: One year
To support the development of a government procurement policy framework and implementation regulations.

2003 AMOUNT: \$85,000 DURATION: 18 months
To assist China in developing a minimum energy-efficiency standard for television sets.

2003 AMOUNT: \$36,000 DURATION: One year
To continue supporting the China Energy Efficient Windows Initiative to achieve the goal of helping the Chinese window industry to influence energy building codes and construction practices to include energy efficient fenestration products.

2002 AMOUNT: \$170,000 DURATION: Two years
To assist China in developing a national commercial building code and in implementing residential building codes in the "hot-summer cold-winter" central China climate zone.

2002 AMOUNT: \$100,000 DURATION: One year
To support China's efforts to develop standby power energy efficiency and labeling standards for VCD and DVD players, and photocopiers.

2002 AMOUNT: \$150,000 DURATION: 15 months
To support China's efforts to develop stronger energy-efficiency "reach" standards for refrigerators and room air-conditioners by 2004.
2002 AMOUNT: \$40,200 DURATION: 13 months
To assist China's efforts to develop government procurement policies for efficient products and equipment.

2001 AMOUNT: \$93,000 DURATION: One year
To help Chinese policy-makers reduce energy use in electronic appliances' standby mode through standards and labeling initiatives.

2001 AMOUNT: \$27,625 DURATION: One year
To help China develop energy-efficiency standards for two gas appliances.

2001 AMOUNT: \$35,000 DURATION: One year
To work with Chinese window and glass manufacturers to promote energy-efficient windows.

2001 AMOUNT: \$13,000 DURATION: One year
To help develop a commercial building energy code in Shanghai.

2001 AMOUNT: \$133,000 DURATION: One year
To assist with the development of energy-efficiency standards for household appliances in China.

2001 AMOUNT: \$35,500 DURATION: One year
To study China's energy losses from standby or "sleep" mode in consumer and other electronic appliances.

2001 AMOUNT: \$108,000 DURATION: One year
To provide Chinese advocates and policy-makers assistance in writing implementing regulations for the transition zone residential code and modeling and designing a national commercial building energy code for China.

NATURAL RESOURCES DEFENSE COUNCIL, INC.

40 West 20th Street
New York, NY 10011
PHONE: 415-777-0220
EMAIL: nrdcinfo@nrdc.org
WEBSITE: www.nrdc.org

2003 AMOUNT: \$100,000 DURATION: Two years
To assist China in developing an energy-efficiency standard and labeling program for consumer appliance power supplies.

2003 AMOUNT: \$100,000 DURATION: Two years
To support provincial policy pilot efforts to implement new residential and commercial building codes.

2001 AMOUNT: \$30,000 DURATION: One year
To provide technical guidance in developing energy-efficiency standards and financial incentives for energy-efficiency building energy codes in China.

RESEARCH INSTITUTE FOR STANDARDS AND NORMS

Ministry of Construction

Bai Wan Zhuang
Beijing, 100835 P.R.China
PHONE: 86-10-6839-3472

2002 AMOUNT: \$44,840 DURATION: One year

To establish an energy-efficient windows program in China and to encourage the windows industry to participate in the development and implementation of building energy codes.

SCIENCE & TECHNOLOGY DEVELOPMENT PROMOTING CENTRE OF THE MINISTRY OF CONSTRUCTION

9 Sanlihe Road
Beijing, 100835 P.R.China
PHONE: 86-10-6839-4206

2002 AMOUNT: \$50,000 DURATION: One year

To study and recommend policies that can reinforce the effectiveness of residential and commercial building codes.

SHANGHAI MUNICIPAL HOUSING DEVELOPMENT BUREAU

No. 99 Beijing Xi Road
Shanghai, 20,0003 P.R.China
PHONE: 86-21-6319-3308

2003 AMOUNT: \$50,000 DURATION: One year

To assist China in developing incentive policies and market-driven programs for building code implementation in the hot-summer cold-winter (central China) region.

SHANGHAI TONGJI UNIVERSITY

1239 Siping Road
Shanghai, 200092 P.R. CHINA
PHONE: 86-21-6563-6163

EMAIL: weidinglong@online.sh.cn

2003 AMOUNT: \$35,000 DURATION: One year

To support implementation of the Shanghai commercial building energy code.

2001 AMOUNT: \$50,000 DURATION: One year

To support development of a commercial sector building code in Shanghai.

CHINA | ELECTRIC UTILITIES

BEIJING ELECTRICAL ENGINEERING SOCIETY

No. 1, Fuxingmenwai Dizang, Annanxiang
Beijing, 100045 P.R.China
PHONE: 86-10-6804-1103

2002 AMOUNT: \$30,000 DURATION: One year

To establish incentive policies and management mechanisms for demand side management programs in Beijing.

BEIJING ENERGY EFFICIENCY CENTER

15th Floor, B-Building, Guohong Dasha Jia (A) 11, Muxidi Beili, Xicheng District
Beijing, 100038 P.R.China

PHONE: 86-10-6390-8555/8556/8557/8558

EMAIL: becon@public3.bta.net.cn

WEBSITE: www.beconchina.org

2001 AMOUNT: \$20,000 DURATION: One year

To produce a white paper on power sector reform, to include analysis and policy recommendations on making energy efficiency profitable to electric utilities.

CENTER FOR RENEWABLE ENERGY DEVELOPMENT, ERI

Guohong Dasha, Jia (A) 11, Muxidi Beili, Xicheng District
Beijing, 100038 P.R.China
PHONE: 86-10-6390-8467/8466/8468

2001 AMOUNT: \$80,000 DURATION: One year

To support policy development of a public benefit fund to encourage renewable energy development in China.

2001 AMOUNT: \$15,000 DURATION: One year

To produce a white paper on power sector reform, to include analysis and policy recommendations for renewable energy development.

CHINA ELECTRICITY COUNCIL

1, Lane 2, Baiguang Road, Xuanwu District
Beijing, 100761 P.R.China
WEBSITE: www.cec.org.cn

2002 AMOUNT: \$40,000 DURATION: One year

To support the development of a national electricity sector regulatory commission in order to encourage national energy efficiency and renewable energy market reforms.

CHINESE ACADEMY OF SOCIAL SCIENCES

No. 5 Jianguomennei Dajie
Beijing, 100732 P.R.China
PHONE: 86-10-6513-7744

2001 AMOUNT: \$15,000 DURATION: One year

To produce a white paper on power sector reform, to include analysis of financial mechanisms to promote energy efficiency and renewable energy.

CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES

No. 8, Dayangfang Street
Anwai, Beiyuan, Chaoyang District
Beijing, 100012 P.R.China

PHONE: 86-10-8491-8767

EMAIL: abj202@istic.sti.ac.cn

2003 AMOUNT: \$100,000 DURATION: One year

To establish a national GPS-based SO₂ emissions allocation program aimed at ratcheting tighter emissions controls on an electricity production basis, thereby encouraging a shift in generation investments toward more efficient technologies.

2002 AMOUNT: \$80,000 DURATION: One year

To support the development of policies that internalize the environmental costs of electricity generation into China's electricity tariffs.

2002 AMOUNT: \$40,000 DURATION: One year

To develop Generation Performance Standards in China in order to regulate thermal power plant emissions on an electricity production basis at both the central government and provincial levels.

2001 AMOUNT: \$160,000 DURATION: Two years

To develop Generation Performance Standards, which regulate emissions from power plants on an electricity production basis, creating a level competitive playing field for all generation resources and creating an incentive for producers to invest in clean generation.

2001 AMOUNT: \$20,000 DURATION: One year

To produce a white paper on power sector reform, to include analysis of "Generation Performance Standards" and other thermal power plant emissions regulations, a sub-project of the white paper project.

DEVELOPMENT RESEARCH CENTER OF THE STATE COUNCIL

No. 225 Chaoyangmen Nei Dajie
Dongcheng District
Beijing, 100010 P.R.China
PHONE: 86-10-6522-9259

2001 AMOUNT: \$30,000 DURATION: Two months

To support the management and development of a comprehensive white paper on China's power sector reforms, including energy efficiency and renewable energy policy elements.

2001 AMOUNT: \$20,000 DURATION: One year

To produce a white paper on power sector reform, to include analysis and policy recommendations regarding regulatory frameworks.

EAST CHINA POWER TEST AND RESEARCH INSTITUTE

171 Handan Road
Shanghai, 200434 P.R.China
PHONE: 86-21-6555-7000

2003 AMOUNT: \$30,000 DURATION: Ten months

To support the establishment of a regional electricity regulatory body in eastern China that will place high priority on energy efficiency and renewable energy development.

ENERGY RESEARCH INSTITUTE

State Development Planning Commission

1508, Guohong Dasha Jia (A) 11, Muxidi Beili Xicheng District
Beijing, 100038 P.R.China
PHONE: 86-10-6390-8568

2003 AMOUNT: \$90,000 DURATION: One year

To support the establishment and design of an implementation plan for an integrated public benefit fund for energy efficiency and renewable energy development in China's electric utility sector.

CENTER FOR ENERGY ECONOMICS AND DEVELOPMENT STRATEGY

Energy Research Institute

B-1411, Guohong Building, Muxidi Xicheng District
Beijing, 100038 P.R.China

2001 AMOUNT: \$50,000 DURATION: One year

To assist China to develop policies to close small, non-competitive, highly-polluting coal-fired power plants.

GUANGDONG ENERGY TECHNO-ECONOMIC RESEARCH CENTER

6/F, No. 60
100 XianLie Mid Road
Guangzhou, 510070 P.R.China
PHONE: 87-62-3520

2002 AMOUNT: \$50,000 DURATION: One year

To support the development of an electric power sector regulatory commission to oversee market reforms and encourage energy efficiency and renewable energy development in Guangdong Province.

INSTITUTE OF ECONOMIC SYSTEM AND MANAGEMENT

State Council Office of Restructuring the Economic System

No. 1 Nan Cao Chang Street
Beijing, 100035 P.R.China
PHONE: 86-10-6618-8884

2003 AMOUNT: \$150,000 DURATION: One year

To support capacity building for China's new State Electricity Regulatory Commission in order to implement the State Council electric utility sector reform plan.

2002 AMOUNT: \$50,000 DURATION: 11 months
To support the development of a new national regulatory regime for China's electric power industry.
2001 AMOUNT: \$35,000 DURATION: Six months
To support national regulatory reform efforts in the power sector.

MARKET AND PRICE RESEARCH INSTITUTE OF THE STATE DEVELOPMENT PLANNING COMMISSION

No. B Guohong Dasha, Muxidi
Xicheng District
Beijing, 100038 P.R.China
PHONE: 86-10-6390-8258

2001 AMOUNT: \$15,000 DURATION: One year
To produce a white paper on power sector reform, to include analysis and policy recommendations for tax incentives for promoting energy efficiency and renewable energy.

NATURAL RESOURCES DEFENSE COUNCIL, INC.

40 West 20th Street
New York, NY 10011
PHONE: 202-289-6868
WEBSITE: www.nrdc.org

2002 AMOUNT: \$15,285 DURATION: Three months
To support a study tour in the United States for key Chinese decision-makers and electricity policy experts to learn more about successful demand-side management (DSM) policies, incentives, and program design.

2001 AMOUNT: \$40,000 DURATION: One year
To support a joint effort to investigate policy options for DSM in China.

NATURAL RESOURCES DEFENSE COUNCIL, INC.

1200 New York Avenue, NW, Suite 400
Washington, DC 20005
PHONE: 202-289-6868
WEBSITE: www.nrdc.org

2002 AMOUNT: \$40,000 DURATION: One year
To support consideration of international experiences in demand-side management (DSM) policies and the development of DSM in China.

REGULATORY ASSISTANCE PROJECT

177 Water Street
Gardiner, ME 04345
PHONE: 207-582-1135
EMAIL: rapmaine@rapmaine.org
WEBSITE: www.rapmaine.org

2003 AMOUNT: \$230,000 DURATION: One year
To provide further training and other consulting services aimed at building China's capacity to develop energy efficiency and renewable energy policies in China's electric utility sector.

2002 AMOUNT: \$230,000 DURATION: One year
To provide training and other consulting services aimed at building China's capacity to develop energy efficiency and renewable energy policies in China's electric utility sector.

2001 AMOUNT: \$215,000 DURATION: One year
To provide training and other consulting services aimed at building Chinese capacity for developing energy efficiency and renewable energy policies in China's electric utility sector.

SHANDONG ENVIRONMENT SCIENCES AND PLANNING INSTITUTE

50 Lishan Road
Jinan, Shandong 250013 P.R.CHINA
PHONE: 86-351-646-7155

2002 AMOUNT: \$25,000 DURATION: One year
To develop "generation performance standards" pollution control policies in Shandong's electric power sector.

SHANXI ENVIRONMENTAL SCIENCE ASSOCIATION

No. 10 Xijihuying
Taiyuan, Shanxi 03,0009 P.R.China
PHONE: 86-351-3048219

2002 AMOUNT: \$25,000 DURATION: One year
To develop "generation performance standards" pollution control policies for Shanxi's electric power sector.

STATE POWER CORPORATION

No. 86, Xichang'an Avenue
Beijing, 100031 P.R.China
PHONE: 86-10-6659-7221
WEBSITE: www.sp.com.cn

2001 AMOUNT: \$15,000 DURATION: 15 months
To produce a white paper on power sector reform, to include analysis of the regulatory oversight components of power sector reform.

STATE POWER CORPORATION DEMAND-SIDE MANAGEMENT INSTRUCTION CENTER

249 Zhongshan Road
Nanjing, Jiangsu 210008 P.R.China
PHONE: 86-25-331-8910

2003 AMOUNT: \$40,000 DURATION: One year
To establish tariff structures to promote demand-side management in Jiangsu Province.

2002 AMOUNT: \$50,000 DURATION: One year
To develop and implement a Jiangsu provincial policy demonstration of electric utility-supported demand-side management programs.

STATE POWER ECONOMIC RESEARCH CENTER

China State Power Corporation
1 Ertiao Baiguang Road
Beijing, 100761 P.R. China

2003 AMOUNT: \$30,000 DURATION: Six months
To support the establishment of an electricity tariff structure in China's newly competitive utility sector that promotes end-use efficiency and internalizes environmental costs.

2002 AMOUNT: \$60,000 DURATION: One year
To support the development of demand-side management (DSM) policies and the inclusion of DSM in China's electric utility reforms.

2001 AMOUNT: \$200,000 DURATION: One year
To support pilot utility restructuring efforts for the eastern region of China, including Shanghai, Zhejiang, Jiangsu and Anhui.

2001 AMOUNT: \$20,000 DURATION: One year
To produce a white paper on power sector reform, to include analysis and recommendations for electricity tariff reforms.

2001 AMOUNT: \$80,000 DURATION: One year
To support a joint effort to investigate policy options for DSM in China: analysis and recommendations.

STATE POWER ENVIRONMENTAL PROTECTION INSTITUTE

10 Pudong Road, Pukou District
Nanjing, 210031 P.R.China
PHONE: 86-25-889-0053
WEBSITE: www.nepri.com

2002 AMOUNT: \$25,000 DURATION: One year
To develop "generation performance standards" pollution control policies for Jiangsu's electric power sector.

ZHEJIANG ENERGY RESEARCH INSTITUTE

218 Wen'er Road
Hangzhou, Zhejiang 310012 P.R.China
PHONE: 86-571-8884-0789
EMAIL: office@china-zeri.org
WEBSITE: www.china-zeri.org

2002 AMOUNT: \$30,000 DURATION: One year
To support the second phase of study on establishing a regulatory commission to oversee electric power sector regulatory reform in China's Zhejiang Province.

2001 AMOUNT: \$25,000 DURATION: Six months
To support provincial regulatory reform in the power sector.

ZHEJIANG ENVIRONMENTAL MONITORING CENTER

117 Xue Yuan Road
Hangzhou Zhejiang 10012 P.R.CHINA
phone: 86-571-8808-7173

2002 AMOUNT: \$25,000 DURATION: One year
To develop "generation performance standards" pollution control policies for Zhejiang's electric power sector.

CHINA | INDUSTRY

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY

1001 Connecticut Avenue, NW, Suite 801
Washington, DC 20036
PHONE: 202-429-8873
EMAIL: info@aceee.org
WEBSITE: www.aceee.org

2003 AMOUNT: \$13,240 DURATION: Six months
To support efforts to develop industrial equipment "reach" standards in a team with the China National Institute of Standardization (CNIS).

2003 AMOUNT: \$21,528.75 DURATION: Six months
To support the attendance of six Chinese participants at the ACEEE Summer Study on Energy Efficiency in Industry.

2002 AMOUNT: \$10,000 DURATION: Six months
To help Chinese advocates and policymakers prepare a proposal to the Global Environment Facility to develop an efficient motor systems training program in China.

2001 AMOUNT: \$19,592 DURATION: Six months
To support technical training and international networking among Chinese advocates who are developing policy recommendations to improve energy efficiency in China's industrial sector.

BEIJING CENTER FOR ENERGY EFFICIENCY AND ENVIRONMENTAL TECHNOLOGY TRANSFER

East Building Si Chuan Tower,
No. 1 Fu Cheng Men Wai Street
Xicheng District
Beijing, 100037 P.R.China
PHONE: 010-8682-1774

2002 AMOUNT: \$50,000 DURATION: One year
To analyze and develop policies to overcome barriers to small-scale cogeneration facilities in China.

BEIJING SUSTAINABLE DEVELOPMENT CENTER

No. 16 Xizhimen Nandajie
Beijing, 100035 P.R.China
PHONE: 8610-6612-2492

2003 AMOUNT: \$40,000 DURATION: One year
To develop a natural gas based cogeneration/ tri-generation plan for Beijing and to develop policies needed to install cogeneration facilities.

BEIJING UNIVERSITY

College of Environmental Sciences
Beijing, 100871 P.R.China
PHONE: 86-10-6275-9190

2003 AMOUNT: \$60,000 DURATION: One year
To design a national policy framework for China which adopts a market approach for enterprises to cut energy use and carbon emissions according to the requirements of China's new Cleaner Production Promotion Law.

CHINA ENERGY CONSERVATION ASSOCIATION

State Economic and Trade Commission
No. 18, Bei San Huan Dong Lu
Beijing, 100013 P.R.China
PHONE: 86-10-6427-6393
EMAIL: ceca@mail.263.net.cn

2003 AMOUNT: \$15,000 DURATION: One year
To support the implementation of the sector target pilot program for two iron and steel enterprises in China's Shandong province.

2001 AMOUNT: \$80,000 DURATION: One year
To provide technical assistance to the Policy Review Team in China, develop recommendations for new implementation regulations for the industrial sector energy-efficiency policy program, and develop a Pilot Program Plan to test the concept of Voluntary Agreements to improve the overall energy efficiency of the steel sector in Shandong Province.

2001 AMOUNT: \$49,000 DURATION: Four months
To identify one Chinese industrial sector in which China could conduct a provincial feasibility study on the policy implications of adopting an emissions or energy-efficiency target.

CHINA ENERGY CONSERVATION INVESTMENT CORPORATION

Sichuan Mansion, East Building, 18-19th Floor
1 Fuwai Avenue, Xicheng District
Beijing, 100037 P.R.China
PHONE: 86-10-6836-4910
EMAIL: zougj@cecic.com.cn
WEBSITE: www.cecic.com.cn

2002 AMOUNT: \$40,000 DURATION: One year
To support analysis of the financial barriers to rapid expansion of cogeneration in China.

CHINA NATIONAL INSTITUTE OF STANDARDIZATION

No. 3 Yu Hui South Road, Chaoyang District
Beijing, 100029 P.R.China
PHONE: 86-10-8463-1031
EMAIL: liax@cecp.org.cn
WEBSITE: www.cnis.gov.cn

2003 AMOUNT: \$35,000 DURATION: 18 months
To develop a "reach" standard for China's electric motors.

ENERGY RESEARCH INSTITUTE

State Development Planning Commission
1508, Guohong DashaJia (A) 11, Muxudi Beili, Xicheng District
Beijing, 100038 P.R.China
PHONE: 86-10-6390-8568

2003 AMOUNT: \$10,000 DURATION: Six months
To support the establishment of an electricity tariff structure in China's newly competitive utility sector that promotes end-use efficiency and internalizes environmental costs.

2003 AMOUNT: \$25,000 DURATION: One year
To support the development of energy-efficiency strategies for small- and medium-sized enterprises.

ENVIRONMENTAL PROTECTION AND ENERGY SAVING WORKING COMMITTEE

China Iron & Steel Association
46 Dongsu Kidajie
Beijing, 100711 P.R.China

2003 AMOUNT: \$25,000 DURATION: One year
To further implement the Shandong Provincial Sector Targets pilot project, in order to demonstrate substantial energy savings in two steel enterprises and to serve as a national model for the Sector Targets methodology for securing industrial energy savings.

GUANGDONG ENERGY CONSERVATION CENTER

No. 11, Lianxin Road, Guangzhou
Guangdong 510030 P.R.China
PHONE: 86-20-8335-1728

2002 AMOUNT: \$30,000 DURATION: One year
To develop policy recommendations on implementing China's Energy Conservation Law in Guangdong Province, to include aggressive appliance standards, appliance-efficiency labels, building codes, and incentive programs for energy-efficiency policy compliance.

LAWRENCE BERKELEY NATIONAL LABORATORY

One Cyclotron Road
Berkeley, CA 94720
PHONE: 510-486-5000
WEBSITE: eed.lbl.gov/ea/china/index.html

2003 AMOUNT: \$35,000 DURATION: One year
To design a national policy framework for China which adopts a market approach for enterprises to cut energy use and carbon emissions according to the requirements of China's new Cleaner Production Law.

2003 AMOUNT: \$66,000 DURATION: One year
To support the implementation of the sector target pilot program for two iron and steel enterprises in China's Shandong province.

2002 AMOUNT: \$70,000 DURATION: One year
To further implement the Shandong provincial sector targets pilot project, in order to demonstrate substantial energy savings in two steel enterprises and to serve as a national model for the sector targets methodology for securing industrial energy savings.

2001 AMOUNT: \$141,500 DURATION: One year
To help Chinese industrial experts and policymakers develop implementing regulations for the Energy Conservation Law and to develop a policy pilot for European-style voluntary efficiency agreements in the iron and steel sector.

2001 AMOUNT: \$95,000 DURATION: One year
To assist the China Energy Conservation Association in (1) reviewing energy conservation regulations for applicability under China's new market conditions, and (2) designing new market transformation policy approaches to industrial energy efficiency the in largest energy-consuming enterprises.

SERVICE CENTER OF POWER GENERATING EQUIPMENT OF THE STATE ADMINISTRATION OF MACHINERY INDUSTRY

formerly National Resource Saving and Integrated Utilization Information Center
No. 85, Xibianmen Nei Street,
Xuanwumen District
Beijing, 100053 P.R.China
PHONE: 86-10-6301-4317
EMAIL: rcic@163bj.com

2003 AMOUNT: \$80,000 DURATION: One year
To support the development of medium- and long-term energy-efficiency strategies for China's industrial structural adjustment.

2001 AMOUNT: \$80,000 DURATION: One year
To study and determine energy-efficiency policies for the structural adjustment of major energy intensive industries.

NOVEM B.V.

Swentiboldstraat 21
Postbus 17
Sittard, 6130 AA THE NETHERLANDS
PHONE: +31-30-2393-493
EMAIL: info@novem.org
WEBSITE: www.novem.org

2003 AMOUNT: \$40,650 DURATION: One year
To support the implementation of the sector target pilot program for two iron and steel enterprises in China's Shandong province.

2002 AMOUNT: \$27,988.80 DURATION: One year
To support the development of energy-efficiency sector targets and implementing regulations for China's iron and steel sector.

SHANDONG ASSOCIATION OF RESOURCES COMPREHENSIVE UTILIZATION

Room 11-116, The Golden Building
No.16, Jiefang Road
Jinan City, Shandong Province P.R.China
PHONE: 86-531-892-0359

2003 AMOUNT: \$55,000 DURATION: One year
To support the implementation of the sector target pilot program for two iron and steel enterprises in China's Shandong province.

SHANGHAI ENERGY CONSERVATION SUPERVISION CENTER

27 Zhizaoju Road, 8th Floor
Shanghai, 200011 P.R.China
phone: 86-21-6377-2987
EMAIL: secc@guomai.sh.cn
WEBSITE: www.sh-ec.com

2002 AMOUNT: \$35,000 DURATION: One year
To support policies to expand the use of clean cogeneration technologies in Shanghai.

2001 AMOUNT: \$35,000 DURATION: One year
To support cogeneration policy research in Shanghai.

CHINA | LOW-CARBON DEVELOPMENT PATH

BEIJING ENERGY EFFICIENCY CENTER

15th Floor, B-Building, Guohong Dasha Jia (A) 11, Muxidi Beili, Xicheng District Beijing, 100038 P.R.China

PHONE: 86-10-6390-8555/8556/8557/8558

EMAIL: becon@public3.bta.net.cn

WEBSITE: www.beconchina.org

2003 AMOUNT: \$50,000 DURATION: Nine months
To assist China in developing energy efficiency and renewable energy policy options to mitigate carbon emissions and achieve the recently promulgated economic and social development goals for 2020 by using scenario modeling tools.

2002 AMOUNT: \$48,000 DURATION: Six months
To support completion of the “carbon scenarios” project, to include a summary for policy-makers as well as a full technical report documenting key assumptions and data.

2001 AMOUNT: \$20,000 DURATION: One year
To support the State Development Planning Commission’s Development Framework for Improving China’s Energy Efficiency.

2001 AMOUNT: \$50,000 DURATION: One year
To develop and publish China’s 2001 *Energy Statistics Yearbook*.

BEIJING GREEN CITY ENVIRONMENTAL ENERGY INSTITUTE

No. 1 Xinhua Road, Nanuyuan Fengtai District Beijing, 100076 P.R. China

PHONE: 86-10-6769-2505

2003 AMOUNT: \$20,000 DURATION: 10 months
To support the development of economy-wide energy-efficiency policies and regulations, including a plan for improving China’s overall national energy intensity, as part of China’s proposed national energy plan.

BEIJING ORIENTAL ENVIRONMENT RESEARCH INSTITUTE

Room 413, No. 1 Yuhuananlu Chaoyang District Beijing, 100029 P.R. China

PHONE: 86-10-6493-3971

2003 AMOUNT: \$50,000 DURATION: One year
To design energy sector regulations and guidelines that enforce the Environmental Impact Assessment Law in order to promote energy efficiency and renewable-energy policies.

BEIJING SUSTAINABLE DEVELOPMENT CENTER

No. 16 Xizhimen Nandajie Beijing, 100035 P.R.China

PHONE: 86-10-6612-2492

2002 AMOUNT: \$50,000 DURATION: One year
To support a study of the total emission control mechanisms for Beijing.

CENTER FOR RENEWABLE ENERGY DEVELOPMENT, ERI

Guohong Dasha, Jia (A) 11, Muxidi Beili, Xicheng District Beijing, 100038 P.R.China

PHONE: 86-10-6390-8467/8466/8468

2003 AMOUNT: \$20,000 DURATION: 10 months
To develop a new National Energy Strategy and Policy emphasizing energy efficiency and renewable-energy development.

CHINA DEVELOPMENT RESEARCH FOUNDATION

No. 225 Chaoyangmen Nei Dajie Beijing, 100010 P.R.China

2003 AMOUNT: \$50,000 DURATION: Three days
To support a three-day “China Development Forum” international conference in Beijing focused on developing China’s National Energy Plan 2004-2020.

CHINA ENERGY RESEARCH SOCIETY

No. 54 Sanli he Road, Xicheng District Beijing, 100045 P.R.China

PHONE: 86-10-6851-1816

EMAIL: cers@mx.cei.gov.cn

2002 AMOUNT: \$40,000 DURATION: One year
To support the journal *Energy Policy Research* aimed at improving the energy efficiency and renewable energy policy coverage read by China’s senior decision-makers.

2002 AMOUNT: \$65,000 DURATION: One year
To support development of carbon emissions baseline statistics and policy efforts to improve China’s overall energy intensity.

CHINA SOCIETY FOR PETROCHEMICAL INFORMATION

Linzi District, Zibo Shandong Province 255400 P.R.China

PHONE: 86-533-755-4225

2003 AMOUNT: \$15,000 DURATION: Ten months
To develop a new national energy strategy and policy emphasizing energy efficiency and renewable energy development.

CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES

No. 8, Dayangfang Street Anwai, Beiyuan, Chaoyang District Beijing, 100012 P.R.China

PHONE: 86-10-8491-8767

EMAIL: abj202@istic.sti.ac.cn

2003 AMOUNT: \$20,000 DURATION: 10 months
To develop a new National Energy Strategy and Policy emphasizing energy efficiency and renewable energy development.

DEVELOPMENT RESEARCH CENTER OF THE STATE COUNCIL

No. 225 Chaoyangmen Nei Dajie Dongcheng District Beijing, 100010 P.R.China

PHONE: 86-10-6522-9259

2003 AMOUNT: \$35,000 DURATION: One year
To support the State Council Research Office to work with the China Sustainable Energy Program grantees and submit key policy recommendations to the state council.

2003 AMOUNT: \$20,000 DURATION: 10 months
To develop a new National Energy Strategy and Policy emphasizing energy efficiency and renewable-energy development.

2003 AMOUNT: \$100,000 DURATION: One year
To develop a Nation Energy Plan to guide China toward maximizing energy efficiency and renewable energy.

ENERGY RESEARCH INSTITUTE

Center for Energy Economics and Development Strategy Zhansimen Road, Shahe Beijing, 100038 P.R.China

2003 AMOUNT: \$20,000 DURATION: 10 months
To develop the “adjustment and optimization of China’s energy supply structures” section of a new national energy strategy and policy emphasizing energy efficiency and renewable energy development.

2003 AMOUNT: \$20,000 DURATION: 10 months
To develop the “evolution of energy policies and strategies” section of a new national energy strategy and policy emphasizing energy efficiency and renewable-energy development.

ENERGY RESEARCH INSTITUTE

State Development Planning Commission 1508, Guohong DashaJia (A) 11, Muxudi Beili, Xicheng District Beijing, 100038 P.R.China

PHONE: 86-10-6390-8568

2003 AMOUNT: \$15,000 DURATION: 10 months
To develop a new National Energy Strategy and Policy emphasizing energy efficiency and renewable-energy development.

INSTITUTE OF WORLD ECONOMICS AND POLITICS

Chinese Academy of Social Sciences 5 Jianguomennei Dajie Beijing, 100732 P.R.China

PHONE: 86-10-634-29925

WEBSITE: www.iwep.org.cn/English

2002 AMOUNT: \$80,000 DURATION: One year
To support research of greenhouse-gas emission reduction targets and long-term policy options for China’s State Development Planning Commission and Ministry of Foreign Affairs.

LAWRENCE BERKELEY NATIONAL LABORATORY

One Cyclotron Road Berkeley, CA 94720

PHONE: 510-486-5000

WEBSITE: eetd.lbl.gov/ea/china/index.html

2002 AMOUNT: \$52,000 DURATION: Seven months
To support completion of the “carbon scenarios” analysis project, to include a summary for policy-makers as well as a full technical report.

2002 AMOUNT: \$100,000 DURATION: Seven months
To support collaboration and peer review by LBNL of China’s energy intensity targets as well as carbon mitigation plans in the cities of Beijing and Shanghai.

2001 AMOUNT: \$97,000 DURATION: One year
To assist with capacity building in China around new policy and scenarios analysis modeling tools that will describe projected energy use and carbon emissions in China’s principal economic sectors in the years 2010 and 2015, to include an assessment of energy efficiency and renewable-energy policies.

NATIONAL RESEARCH CENTER FOR SCIENCE AND TECHNOLOGY DEVELOPMENT

No. 55 YuYuanTan South Road Haidain District, Box 3814 Beijing, 100038 P.R.China

PHONE: 86-10-682-52487

2002 AMOUNT: \$50,000 DURATION: One year
To support efforts to increase central government funding for energy efficiency and renewable-energy technology research and development.

SHANGHAI ACADEMY OF ENVIRONMENTAL SCIENCES

508 Qinzhou Road
Shanghai, 200233 P.R.China

2002 AMOUNT: \$50,000 DURATION: One year
To support a “low-carbon policy development” framework for the City of Shanghai, in order to encourage medium- and long-term municipal energy efficiency and renewable-energy policies.

TSINGHUA UNIVERSITY EDUCATION FOUNDATION

Institute of Nuclear Energy Technology
Beijing, 100084 P.R. China

PHONE: 86-10-6277-1023
WEBSITE: www.inet.tsinghua.edu.cn

2001 AMOUNT: \$76,000 DURATION: One year
To study the impact of carbon dioxide emissions control on China’s economic development.

CHINA | RENEWABLE ENERGY

BEIJING JIKEDIAN ENERGY DEVELOPMENT CENTER

P.O. Box 2703
Beijing, 100080 P.R. China

PHONE: 86-10-62551263
2001 AMOUNT: \$20,000 DURATION: Six months
To analyze policies that can catalyze the “sustained orderly development” of a wind energy industry in China.

BEIJING ORIENTAL ENVIRONMENT RESEARCH INSTITUTE

Room 413, No. 1 Yuhuinanlu
Chaoyang District
Beijing, 100029 P.R. China

PHONE: 86-10-6493-3971
2003 AMOUNT: \$30,000 DURATION: One year
To support China’s development and adoption of a comprehensive renewable-energy policy and regulatory framework.

BEIJING SUSTAINABLE DEVELOPMENT CENTER

No. 16 Xizhimen Nandajie
Beijing, 100035 P.R. China

PHONE: 86-10-6612-2492
2002 AMOUNT: \$40,000 DURATION: One year
To support a Public Benefit Fund in Beijing to finance energy efficiency and renewable-energy programs.

CENTER FOR RENEWABLE ENERGY DEVELOPMENT, ERI

Guohong Dasha, Jia (A) 11, Muxidi Beili,
Xicheng District
Beijing, 100038 P.R. China

PHONE: 86-10-6390-8467/8466/8468
2003 AMOUNT: \$120,000 DURATION: One year
To promote the development of national wind concession policies and provincial pilot implementation, in order to encourage volume production of wind energy technologies.

2003 AMOUNT: \$70,000 DURATION: One year
To support the development of national “mandatory market share” policies for renewable energy.

2001 AMOUNT: \$70,000 DURATION: One year
To assist China to design and develop a “mandatory market share” (renewable portfolio standard) policy for renewable energy technology development.

2001 AMOUNT: \$40,000 DURATION: One year
To assist China to develop provincial policy pilots of a “wind concession” approach to large-scale wind energy commercialization.

2001 AMOUNT: \$20,000 DURATION: One year
To support a study of international renewable-energy laws and compare these with China’s domestic renewable-energy regulations.

2001 AMOUNT: \$25,000 DURATION: One year
To support renewable-energy development in China’s western region.

CENTER FOR RENEWABLE ENERGY DEVELOPMENT

Energy Research Institute
Zhansimen Road, Shahe

Beijing, 100038 P.R. China
PHONE: 86-10-6390-8568

2001 AMOUNT: \$25,000 DURATION: One year
To support a study on distributed renewable-energy generation policy incentives, including financial policy options, applicable to energy market development in China’s western region.

CENTER FOR RESOURCE SOLUTIONS

Presidio Building 97
P.O. Box 29512
San Francisco, CA 94129

PHONE: 415-561-2100
WEBSITE: www.resource-solutions.org
2003 AMOUNT: \$205,000 DURATION: One year
To provide technical policy support and capacity building to Chinese policymakers in renewable-energy policy development and implementation.

2002 AMOUNT: \$158,695.64 DURATION: One year
To provide technical policy support and capacity building to Chinese policymakers in renewable-energy policy development and implementation.

2002 AMOUNT: \$46,000 DURATION: One year
To support policy training for green pricing and public benefits funds programs in Beijing and Shanghai.

2001 AMOUNT: \$180,000 DURATION: One year
To provide technical policy support and training to Chinese policymakers involved in renewable-energy policy development and implementation.

CENTER FOR SCIENCE AND TECHNOLOGY DEVELOPMENT

Ministry of Agriculture
Building 18 Maizidian Street
Beijing, 100026 P.R. China

2002 AMOUNT: \$60,000 DURATION: One year
To support the development of financial policies aimed at removing market barriers to investment in new biomass electricity generation technologies.

CHINA CLASSIFICATION SOCIETY

Room 909, A Building, Century Square
99 Wang Fujing Avenue
Beijing, 10,0006 P.R. China

PHONE: 86-10-65136692
2002 AMOUNT: \$50,000 DURATION: One year
To assist China to develop manufacturing standards and quality certification procedures for wind turbine equipment.

CHINA ENERGY RESEARCH SOCIETY

No. 54 Sanli he Road, Xicheng District
Beijing, 100045 P.R. China
PHONE: 86-10-6851-1816
EMAIL: cers@mx.cei.gov.cn

2002 AMOUNT: \$45,000 DURATION: One year
To support the formulation of financing policies to promote distributed renewable-energy generation systems.

2001 AMOUNT: \$50,000 DURATION: One year
To support development of policies to promote distributed renewable-energy power generating systems in rural China.

ENERGY RESEARCH INSTITUTE

Center for Renewable Energy Development
Zhansimen Road, Shahe
Beijing, 100038 P.R. China

PHONE: 86-10-6390-8467/8466/8468
2002 AMOUNT: \$20,000 DURATION: One year
To support second phase development of a comprehensive renewable-energy policy aimed at commercializing new grid-tied renewable-energy technologies, to include formulating and piloting provincial policies and regulations for potential national application.

GUANGDONG ENERGY TECHNO-ECONOMIC RESEARCH CENTER

6/F, No. 60
100 XianLie Mid Road
Guangzhou, 510070 P.R. China

PHONE: 87-62-3520
2002 AMOUNT: \$25,000 DURATION: Seven months
To develop policies in support of Guangdong’s wind concession pilot program.

PUBLIC FINANCE RESEARCH INSTITUTE IN FUJIAN PROVINCE

17 Floor, No. 5 Zhongshan Road, Fuzhou City
Fujian Province 35,0003 P.R. China

PHONE: 86-591-709-7832
2002 AMOUNT: \$50,000 DURATION: One year
To support a local “mandatory market share” renewable-energy policy pilot in Fujian Province.

SICHUAN UNIVERSITY

Institute for West Development
Chengdu, 610065 P.R. China

2002 AMOUNT: \$50,000 DURATION: One year
To support a “mandatory market share” renewable-energy policy pilot in Sichuan Province.

SOUTH-NORTH INSTITUTE FOR SUSTAINABLE DEVELOPMENT

Orchid Room, Zhongshan Park, Tiananmen
Beijing, 100031 P.R. China

PHONE: 86-10-8652-1198/6804-4776
EMAIL: windflower@snisd.org.cn
WEBSITE: www.snisd.org.cn

2002 AMOUNT: \$60,000 DURATION: One year
To establish green pricing programs in Beijing and Shanghai such that enterprises that volunteer to pay a small premium for renewable energy can provide a market for new utility-scale renewable-energy projects.

**TSINGHUA UNIVERSITY
EDUCATION FOUNDATION**
Institute of Energy, Environment,
and Economy (IEEE)

Energy Science Building
Beijing, 100084 P.R.China

2003 AMOUNT: \$20,000 DURATION: Seven months

To compile and publish a compilation of major international renewable-energy policies in order to develop a new National Renewable Energy Policy for China, which calls for 10 percent of all China's electricity to come from renewable energy by 2020.

**TSINGHUA UNIVERSITY
EDUCATION FOUNDATION**

Sheng Yin Yuan 28
Tsinghua University
Beijing, 100084 P.R.China
PHONE: 86-10-6278-3964

2002 AMOUNT: \$20,000 DURATION: One year

To support continued efforts to establish a comprehensive national renewable-energy policy in order to catalyze utility-scale renewable-energy development over the long-term.

**ZHEJIANG ENERGY
RESEARCH INSTITUTE**

218 Wen'er Road, Hangzhou
Zhejiang 310012 P.R.China
PHONE: 86-571-8884-0789

EMAIL: office@china-zeri.org

WEBSITE: www.china-zeri.org

2002 AMOUNT: \$30,000 DURATION: One year

To support the establishment of a Public Benefit Fund in Zhejiang Province to finance energy efficiency and renewable-energy programs.

CHINA | TRANSPORTATION

**BEIJING SUSTAINABLE
DEVELOPMENT CENTER**

No. 16 Xizhimen Nandajie
Beijing, 100035 P.R.China
PHONE: 86-10-6612-2492

2002 AMOUNT: \$70,000 DURATION: One year

To work with Tsinghua University to promote clean vehicle fuels and technologies as part of Beijing's "Energy-Use Energy Reform Program" for the 2008 Olympics.

**BEIJING TRANSPORTATION
DEVELOPMENT RESEARCH CENTER**

317, Guang'anmennei Avenue
Beijing, 100053 P.R.CHINA
PHONE: 86-10-6805-6174

2003 AMOUNT: \$100,000 DURATION: One year

To help Beijing's municipal government develop a Bus Rapid Transit (BRT) corridor in order to demonstrate a modern solution to mass transportation challenges.

2003 AMOUNT: \$80,000 DURATION: Six months

To develop strategies for bus rapid transit (BRT) system promotion and segment demonstration.

CHANG AN UNIVERSITY

P.O. Box 487, Chang An University
Middle of South 2nd Ring Road
Xi'an, 710064 P.R.China

PHONE: 86-29-233-5260/136-0929-6368

2003 AMOUNT: \$50,000 DURATION: One year

To support the Xi'an municipal government to develop strategies for bus rapid transit (BRT) system promotion and segment demonstration.

**CHINA AUTOMOTIVE TECHNOLOGY
AND RESEARCH CENTER**

Tianshanlukou, Chenglinzhuangdao
P.O. Box No. 59
Tianjin, 300162 P.R.China

PHONE: 022-8477-1277

EMAIL: info@catarc.ac.cn

WEBSITE: www.catarc.ac.cn

2002 AMOUNT: \$80,000 DURATION: 17 months

To research policies that would promote the commercialization of clean cars in China.

2002 AMOUNT: \$150,000 DURATION: 15 months

To support China's efforts to develop fuel economy policies.

2002 AMOUNT: \$40,000 DURATION: 18 months

To support policy analysis of China's vehicle fleet and the classification of vehicles by emissions and fuel efficiency, and to provide policy recommendations for the scrapping of the most polluting and least efficient vehicles.

2001 AMOUNT: \$100,000 DURATION: Nine months

To promote the establishment of automobile fuel economy standards and fuel efficiency incentives in China.

**CHINA NATIONAL PETROLEUM AND
CHEMICAL PLANNING INSTITUTE**

Building No.16, QiQu, Hepingli
Beijing, 100013 P.R.China

PHONE: 8610-6428-0159

2003 AMOUNT: \$80,000 DURATION: One year

To assist the State Development and Reform Commission with developing national strategy for alternative fuels.

**CHINESE RESEARCH ACADEMY
OF ENVIRONMENTAL SCIENCES**

No. 8, Dayangfang Street
Anwai, Beiyuan, Chaoyang District
Beijing, 100012 P.R.China

PHONE: 86-10-84918767

EMAIL: abj202@istic.sti.ac.cn

2002 AMOUNT: \$35,000 DURATION: 15 months

To support development of a national ethanol development plan.

**KUNMING URBAN TRANSPORTATION
PLANNING INSTITUTE**

213 Shang Yi Street, Yunnan Province
Kunming, 650041 P.R.China

PHONE: 86-871-3171401

2003 AMOUNT: \$100,000 DURATION: One year

To help the Kunming municipal government develop a comprehensive demonstration of a bus rapid transit (BRT) system.

**LAWRENCE BERKELEY
NATIONAL LABORATORY**

One Cyclotron Road
Berkeley, CA 94720

PHONE: 510-486-5000

WEBSITE: eetd.lbl.gov/ea/china/index.html

2001 AMOUNT: \$47,500 DURATION: One year

To assess the potential for producing higher-quality fuels in China.

**NORTHERN JIAOTONG UNIVERSITY
Traffic and Transportation School**

Beijing, 100044 P.R.China

PHONE: 86-10-632-40663

2002 AMOUNT: \$50,000 DURATION: One year

To develop incentive policies for the commercialization of advanced technology (particularly hybrid-electric drive) vehicles for the 2008 Beijing Olympic Games.

**PRESIDENT AND FELLOWS
OF HARVARD COLLEGE**

John F. Kennedy School of Government
79 John F. Kennedy Street
Cambridge, MA 02375

PHONE: 617-495-1464

WEBSITE: www.ksg.harvard.edu

2002 AMOUNT: \$50,000 DURATION: One year

To support a collaborative program aimed at developing research, development, demonstration, and deployment policies, to promote advanced vehicle technologies in China.

SHANGHAI JIAO TONG UNIVERSITY

1954 Huashan Road
Shanghai, 200030 P.R.China

2002 AMOUNT: \$35,000 DURATION: 16 months

To support analysis of ethanol production in China, including assessment of technical feasibility and economic and environmental benefits, in order to recommend clean fuels policy development.

**SHANGHAI JIAO TONG UNIVERSITY
School of Mechanical and Power Engineering**

Shanghai, 20030 P.R.China

2002 AMOUNT: \$25,000 DURATION: 18 months

To study the feasibility of promoting fuel cell scooters in Shanghai.

TAIPEI SOCIETY FOR TRAFFIC SAFETY

10F-3, 102, Nanjing E. Road, Section 5
Taipei, Taiwan

2003 AMOUNT: \$150,000 DURATION: One year

To support international technical advisors to provide capacity building input to bus rapid transit (BRT) system development initiatives in China.

TONGJI UNIVERSITY

Center of Automotive Engineering
Shanghai, DC 200092 P.R.China

2001 AMOUNT: \$70,000 DURATION: 14 months

To promote the development of hybrid and fuel cell vehicles in Shanghai.

**TSINGHUA UNIVERSITY
EDUCATION FOUNDATION**

Sheng Yin Yuan 28, Tsinghua University
Beijing, 100084 P.R.China

PHONE: 86-10-6278-3964

2002 AMOUNT: \$120,000 DURATION: Two years

To support graduate student fellowships that provide student research support for transportation policy analysis, including research on vehicle emissions, fuel quality, fuel economy, advanced zero-emission vehicle technology, and bus rapid transit systems.

**TSINGHUA UNIVERSITY
EDUCATION FOUNDATION**

Institute of Environmental Sciences
and Engineering

Beijing, 100084 P.R.China

PHONE: 86-10-627-82195

2002 AMOUNT: \$70,000 DURATION: One year

To develop an analysis of the environmental and economic costs and benefits of national fuel economy standards.

FINANCIAL STATEMENTS

CONDENSED STATEMENTS OF FINANCIAL POSITION AS OF DECEMBER 31, 2003 AND 2002

	2003	2002
ASSETS		
Cash and Cash Equivalents	\$11,852,491	\$15,694,351
Contributions Receivable, Net	23,427,367	26,794,241
Prepaid Expenses and Other Assets	38,980	30,235
Property and Equipment:		
Office furniture and equipment	446,791	411,873
Leasehold improvements	213,214	180,485
TOTAL	<u>660,005</u>	<u>592,358</u>
Less accumulated depreciation and amortization	(584,534)	(518,694)
Property and equipment, net	<u>75,471</u>	<u>73,664</u>
TOTAL ASSETS	<u><u>\$35,394,309</u></u>	<u><u>\$42,592,491</u></u>
LIABILITIES AND NET ASSETS		
Liabilities:		
Grants payable	\$3,130,000	\$4,700,979
Accounts payable and accrued expenses	513,606	1,032,390
TOTAL LIABILITIES	<u>3,643,606</u>	<u>5,733,369</u>
Net Assets:		
Unrestricted	1,973,636	131,156
Temporarily restricted	29,777,067	36,727,966
TOTAL NET ASSETS	<u>31,750,703</u>	<u>36,859,122</u>
TOTAL LIABILITIES AND NET ASSETS	<u><u>\$35,394,309</u></u>	<u><u>\$42,592,491</u></u>

This condensed financial information has been extracted from the Energy Foundation's audited financial statements, on which an independent public accounting firm expressed an unqualified opinion. To obtain copies of the complete audited statements, please contact the Energy Foundation.

CONDENSED STATEMENTS OF ACTIVITIES AND CHANGES IN NET ASSETS
AS OF DECEMBER 31, 2003 AND 2002

	2003	2002
CHANGES IN UNRESTRICTED NET ASSETS:		
Support and revenues:		
Contributions	\$2,000,000	\$ —
Interest income	1,641	—
Net assets released from restrictions	25,263,494	25,352,509
TOTAL	<u>27,265,135</u>	<u>25,352,509</u>
Expenses:		
Grants	19,823,559	21,651,461
Foundation-initiated projects	3,027,071	3,594,772
General and administrative	2,572,025	2,554,691
TOTAL	<u>25,422,655</u>	<u>27,800,924</u>
Increase (decrease) in unrestricted net assets	<u>1,842,480</u>	<u>(2,448,415)</u>
CHANGES IN TEMPORARILY RESTRICTED NET ASSETS:		
Support and revenues:		
Contributions	18,186,876	20,577,344
Interest income	125,719	213,325
Net assets released from restrictions	(25,263,494)	(25,352,509)
Decrease in temporarily restricted net assets	<u>(6,950,899)</u>	<u>(4,561,840)</u>
DECREASE IN NET ASSETS	<u>(5,108,419)</u>	<u>(7,010,255)</u>
NET ASSETS—BEGINNING OF YEAR	<u>36,859,122</u>	<u>43,869,377</u>
NET ASSETS—END OF YEAR	<u>\$31,750,703</u>	<u>\$36,859,122</u>

CONDENSED STATEMENTS OF CASH FLOWS AS OF DECEMBER 31, 2003 AND 2002

	2003	2002
CASH FLOWS FROM OPERATING ACTIVITIES:		
Decrease in net assets	\$(5,108,419)	\$(7,010,255)
Adjustments to reconcile decrease in net assets to net cash (used in) provided by operating activities:		
Depreciation and amortization	65,840	56,216
Changes in assets and liabilities:		
Contributions receivable	3,366,874	12,307,806
Prepaid expenses and other assets	(8,745)	—
Grants payable	(1,570,979)	1,277,979
Accounts payable and accrued expenses	(518,784)	833,148
Net cash (used in) provided by operating activities	<u>(3,774,213)</u>	<u>7,464,894</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchases of property and equipment	<u>(67,647)</u>	<u>(9,588)</u>
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	<u>(3,841,860)</u>	<u>7,455,306</u>
CASH AND CASH EQUIVALENTS—BEGINNING OF YEAR	<u>15,694,351</u>	<u>8,239,045</u>
CASH AND CASH EQUIVALENTS—END OF YEAR	<u>\$11,852,491</u>	<u>\$15,694,351</u>

ENERGY FOUNDATION BOARD OF DIRECTORS 2003

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Program Associate

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Vice President

Zhang Ruiying
Program Officer

APPLICATION

GENERAL APPLICATION INFORMATION

WHAT ARE THE LIMITATIONS ON FOUNDATION GRANTS?

- The foundation makes grants to nonprofit charitable organizations classified as 501(c)(3) public charities by the Internal Revenue Service. The foundation does not support individuals or for-profit organizations
- The foundation does not support local projects, unless they have been consciously designed for further replication or have broad regional or national implications. The foundation's geographic focus is the United States and China, with special emphasis on regional initiatives
- The foundation does not make grants intended to support candidates for political office, to influence legislation, or to support sectarian or religious purposes
- The foundation does not fund the research and development of technology (e.g., funds to develop hybrid automobiles or commercialization of an invention)
- The foundation does not fund demonstration projects (e.g. model solar homes)
- The foundation does not fund community energy projects
- The foundation does not fund endowments or debt reduction, nor does it make general-support grants. The foundation does not support annual fund-raising campaigns or capital construction. The foundation does not support the planning, renovation, maintenance, retrofit, or purchase of buildings; the purchase of equipment; or the acquisition of land, even if the intent is to save energy

HOW TO APPLY FOR A GRANT

Because the foundation's funding priorities are specialized, we recommend that all applicants carefully review these guidelines. If you are not sure whether your project fits the guidelines, we encourage you to write a brief letter of inquiry describing the project, its purpose, and the amount you are requesting. We will notify you if a full proposal is warranted. **If your work is in China, please contact the Energy Foundation at either office or our website (see below) for our China Sustainable Energy Program guidelines.**

If you are confident that your project fits within the guidelines, we do not require a letter of inquiry. Please send us the application form (last page), one copy of your proposal, and the supporting documents listed below.

THE PROPOSAL

Except for work in China, we have no fixed format for proposals. Use the form that best conveys the strengths of your project. In general, a complete proposal includes the following:

- the attached application form as a cover sheet
- a clear statement of the need(s) or problem(s) to be addressed

- target decision-maker(s)
- strategy
- timeline
- results you expect from your project
- project budget—including a brief explanation of the budget, a list of other sources of actual and potential funding for the project, and a description of plans to secure additional funding
- how you will determine whether your project is successful
- history of organization, including mission and goals

SUPPORTING DOCUMENTS

To consider a proposal for funding, we need the following documents:

- organization budget
- most recent audited financial statements
- IRS letter certifying tax-exempt status
- current annual report
- list of board of directors and officers
- résumés of key personnel involved in project

DEADLINES

The foundation's Board of Directors meets three times a year (the second week of March, the third week of June, and the first week of November). We accept proposals on a continuous basis. There are no specific deadlines. However, in order to consider a proposal for inclusion in a specific docket, we need to receive proposals approximately 12 weeks in advance of the next board meeting. Please keep in mind that it takes us approximately four weeks to review proposals and inquiries and to contact you with a response.

For more information contact:

The Energy Foundation
1012 Torney Avenue, #1
San Francisco, CA 94129
PHONE: 415-561-6700
FAX: 415-561-6709
EMAIL: energyfund@ef.org
WEBSITE: www.ef.org

In China:

The Energy Foundation-Beijing Office
CITIC Building, Room 2403
No. 19, Jianguomenwai Dajie
Beijing, 100004 P.R. China
PHONE: 86-10-8526-2422
FAX: 86-10-6525-3764
EMAIL: china@ef.org
WEBSITE: www.efchina.org

APPLICATION

PROPOSAL SUMMARY

BRIEFLY DESCRIBE YOUR PROJECT:

BRIEFLY DESCRIBE THE MISSION AND ACTIVITIES OF YOUR ORGANIZATION:

PLEASE HAVE YOUR CHIEF EXECUTIVE OFFICER OR CHIEF FINANCIAL OFFICER SIGN THIS FORM.

SIGNED:

DATE:

TITLE:

APPLICATION FORM

Please complete and submit this form with your proposal and supporting documents. This form is available in pdf format on our website.

1012 Torney Avenue, #1
San Francisco, CA 94129

PHONE: 415-561-6700

FAX: 415-561-6709

EMAIL: energyfund@ef.org

WEBSITE: www.ef.org

DATE OF APPLICATION:

ORGANIZATION:

ADDRESS:

ORGANIZATION TELEPHONE:

ORGANIZATION FAX:

ORGANIZATION EMAIL ADDRESS:

ORGANIZATION WEBSITE:

DATE OF INCORPORATION (MONTH/YEAR):

TAX STATUS:

501 (C) (3)

OTHER

IF YOU DO NOT HAVE 501(C)3 STATUS, ARE YOU A PROJECT OF
ANOTHER ORGANIZATION?

IF SO, PLEASE NAME:

PRIMARY CONTACT:

TITLE:

DIRECT PRIMARY TELEPHONE:

DIRECT PRIMARY FAX:

DIRECT PRIMARY CONTACT EMAIL:

CHIEF EXECUTIVE OFFICER:

TITLE:

TOTAL ORGANIZATION BUDGET:

TOTAL PROJECT BUDGET:

AMOUNT REQUESTED FROM THE ENERGY FOUNDATION:

FOR WHAT DURATION:

OTHER SOURCES OF FUNDING FOR THE PROJECT:

SECTOR (PLEASE CHECK)

POWER

TRANSPORTATION

BUILDINGS

CLIMATE

OTHER PROPOSALS PENDING; WITH WHOM:

NATIONAL POLICY



The Energy Foundation
Toward a sustainable energy future

A JOINT INITIATIVE OF THE WILLIAM AND FLORA HEWLETT FOUNDATION,
THE JOHN D. AND CATHERINE T. MACARTHUR FOUNDATION,
THE MCKNIGHT FOUNDATION, THE MERTZ GILMORE FOUNDATION,
THE DAVID AND LUCILE PACKARD FOUNDATION, AND THE PEW CHARITABLE TRUSTS

1012 Torney Avenue, Suite 1
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PHONE: 86-10-8526-2422
FAX: 86-10-6525-3764
EMAIL: china@ef.org
WEBSITE: www.efchina.org



Printed with soy-based inks on 100% recycled paper, (50% post-consumer waste), processed chlorine-free. This bindery method was used to keep toxic glues out of the recycling process.

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