

CHINA'S  
ENERGY



CHALLENGE

## THE ENERGY FOUNDATION MISSION STATEMENT

The Energy Foundation is a partnership of major foundations interested in promoting clean energy technologies to solve the world's energy problems. We focus on the United States and China, the largest and fastest growing energy markets in the world. Energy Foundation partners include The William and Flora Hewlett Foundation, The John D. and Catherine T. MacArthur Foundation, The McKnight Foundation, The Mertz Gilmore Foundation, and The David and Lucile Packard Foundation.



Three strategic presumptions drive our work:

- New energy technologies can help grow the economy with far less pollution.
- Policy shapes today's energy markets, determining which technologies thrive or wither.
- Foundation-supported analysis and education about new technologies and model policies can help to advance clean, low-cost energy solutions.

Our primary role is as a grantmaker, providing resources to effective groups that leverage change. When we see an unmet need, we also take direct initiatives, commission papers, or convene high-level meetings. Our budget is \$22 million per year.



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CHINA'S  
ENERGY  
CHALLENGE

by Doug Ogden<sup>1</sup>

**CHINA** is the epicenter of global economic and environmental change. From an insular, centrally-planned economy in 1980 with a Gross Domestic Product (GDP) of \$300 billion, China's sizzling economic growth—over nine percent per year for a quarter century—has multiplied its economy fivefold. By 2005, China had emerged as the world's sixth largest economy with a GDP of \$1.65 trillion.<sup>2</sup> By 2020, China's leaders aim to at least quadruple the economy again; there will likely be three more Chinas the size of today's by that year.

China recently moved into second place (behind the United States) among the world's largest energy consumers. China is by far the world's largest coal consumer, devouring nearly 40 percent of total global coal production annually. Oil demand is also surging; in only 10 years, China has turned from a petroleum exporter to the third largest oil importer in the world (after the U.S. and Japan).

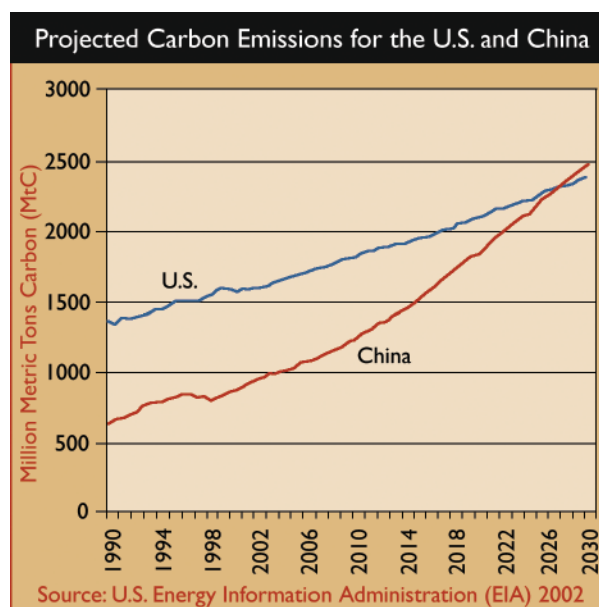
Yet China's blazing energy growth is just beginning. China's per capita energy consumption is one-eighth that of the United States. Ongoing, steep growth trends foresee China catching up to U.S. energy levels in the next few decades. If every one of China's 1.3 billion people were to consume energy at U.S. per-capita levels, China's carbon emissions—the main pollutant implicated in global warming—would exceed today's total world-wide carbon emissions by 22 percent.<sup>3</sup>

The bulk of China's energy growth is due to the country's emergence as the “factory of the world.” Most of China's economic output comes from highly energy-intensive industries. With less than four percent of global GDP, China consumes 30 percent of the iron, 27 percent of the steel, and 50 percent of the cement. Accompanying this heavy industrial structure is a tremendous waste of energy. To generate every U.S. dollar of GDP, China uses three times more energy than the global average, 4.7 times more than in the U.S., 7.7 times more than in Germany, and 11.5 times more than in Japan.<sup>4</sup>

China is largely replicating the development patterns of the West. Understandably, it vows not to miss this chance to develop. By joining and trading with the international community, China is only asserting its rightful position as a player. What is shocking, however, is the sheer scale and pace of the environmental spillovers throughout China and onto the global community.<sup>5</sup> Although China has ample coal, it nevertheless finds itself unable to mine or transport it fast enough, and unprepared to invest in advanced combustion and gasification technologies that could improve efficiency and reduce environmental impacts. China's pace of oil imports is already buoying global oil prices; China is discovering its vulnerability to global oil price shocks as it scrambles to buy up international oil assets in a struggle to assure future oil supplies.

It is not the scarcity of fossil fuels that is creating China's economic and environmental vulnerability. Fossil fuels—including coal and oil (particularly oil derived from tar sands)—are fairly plentiful and likely to remain so globally for the next several decades. The greatest global challenge is the limited capacity of the environment—China's and the earth's—to absorb the pollution from fossil fuel consumption.

There are solutions. New energy technologies can move China onto a high growth but clean trajectory. And most encouragingly, China is beginning to take rapid, assertive steps toward mobilizing these clean energy technology solutions.



Carbon dioxide, the chief pollutant implicated in global warming, is the main by-product of fossil fuel combustion. China is likely to surpass the U.S. as the world's number one carbon dioxide emitter within two decades.

<sup>1</sup> Author's Note: Special thanks to the following individuals who provided insightful comments and advice: Patty Fong, David Fridley, Dongquan He, Eric Heitz, Mark Levine, Jiang Lin, Lynn Price, Jonathan Sinton, Susan Tierney, Michael Wang, Wanxing Wang, Fuqiang Yang, Chi Zhang, Hongjun Zhang, and Ruiying Zhang.

<sup>2</sup> *China Daily*, January 25, 2005. On a purchasing power parity basis (PPP), China is already the world's second largest economy behind the U.S., with a GDP of \$6 trillion.

<sup>3</sup> Given the latest climate science showing human-induced global warming underway, it is clear that earth's atmosphere can ill afford even one emitter of the U.S.'s magnitude. The prospect of two requires vigorous action in both countries.

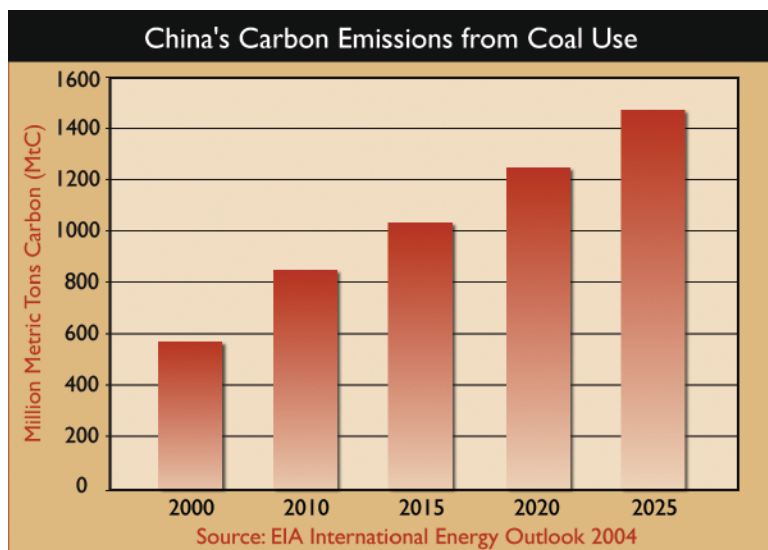
<sup>4</sup> Jiang Wenran, “China's Quest for Energy Security,” *Edmonton Journal*, September 2004.

<sup>5</sup> Such spillovers are by no means unique to China. OECD countries, most notably the United States, have been the world's primary polluters to date, and have so “occupied” the earth's environmental absorptive capacity that rapidly developing economies such as China's are disadvantaged.

## CHINA'S ENERGY AND ENVIRONMENT NEXUS

As its economy stampedes ahead, China's environment is deteriorating. The *de facto* slogan of the 1980s and 1990s—"development first, environment later"—is having severe consequences. Choking air pollution—from coal-fired factories and power plants, and from dirty vehicles—has catalyzed an epidemic in respiratory illness.

Simply breathing in one of China's major cities is a two-pack-a-day habit. Respiratory and heart diseases related to air pollution are the leading cause of death in China—some 400,000 fatalities each year.<sup>6</sup> Pollution costs the Chinese economy 5-to-8 percent of GDP each year.<sup>7</sup>



Tackling these public health costs must target China's twin fossil fuel habits—coal and oil.

### COAL

The crux of China's environmental challenge is energy. China is the most coal-dependent economy on earth; over two-thirds of all China's energy comes from coal. Coal consumption approached 2 billion metric tons in 2004,<sup>8</sup> a 75 percent increase in just five years. This is nearly twice the coal consumption of the United States—an economy eight times larger. Coal generates 80 percent of China's electricity. It also

<sup>6</sup> World Health Organization, "China Country Health Information Profile 2004."

<sup>7</sup> See "Clear Water, Blue Skies," The World Bank, p. 2 (1997).

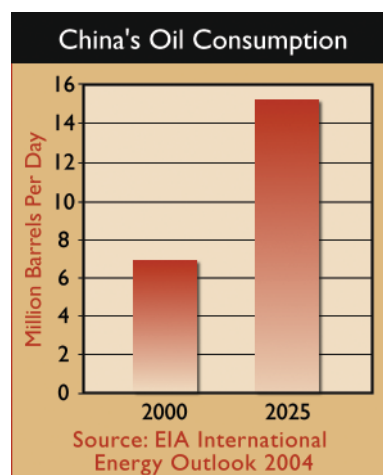
<sup>8</sup> China National Bureau of Statistics.

supplies nearly all of the energy for China's heavy industries. In 2005, China is likely to add nearly 50,000 megawatts of new electricity plants—a new 1,000-megawatt coal-fired power plant every week—to meet burgeoning demand. Although China is taking steps to reduce the overall share of coal in its energy mix, coal use will at least double and could quadruple<sup>9</sup> over the next two decades as China continues scrambling to meet its economic growth goals.

Coal, in turn, causes nearly all of China's global warming emissions, acid rain, and most of the airborne toxic heavy metals—including mercury that is bioaccumulating in the food chain and stunting the IQs of children. The Chinese leadership will be unable to solve these serious environmental and public health challenges without cleaning up coal, investing aggressively in energy efficiency and new near-zero emission coal technologies,<sup>10</sup> and shifting rapidly to renewable energy.

## OIL

China's oil imports are skyrocketing. A net oil exporter until 1993, China then elevated the automobile as a “pillar industry” to spur economic growth. Since 1995, China's fleet has nearly tripled to 28.3 million vehicles. China is now consuming 6.3 million barrels of oil per day—2.3 billion barrels each year—almost half from imports. And growth appears to be catching only a first wind: total year-on-year vehicle sales exploded by 40 percent in 2003.<sup>11</sup>



<sup>9</sup> State Council Development Research Center, “China's National Energy Strategy and Policy” (November 2003).

<sup>10</sup> Near zero-emission coal technologies, such as integrated gasification combined cycle (IGCC) with carbon capture and geologic sequestration, are being demonstrated in OECD countries. China needs to ramp up research and development of these promising technologies.

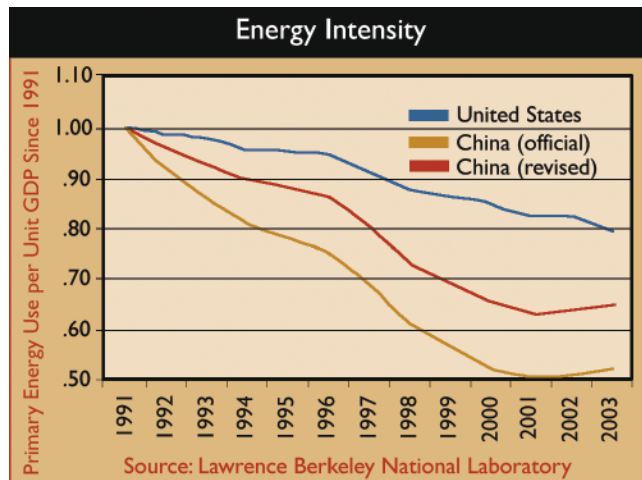
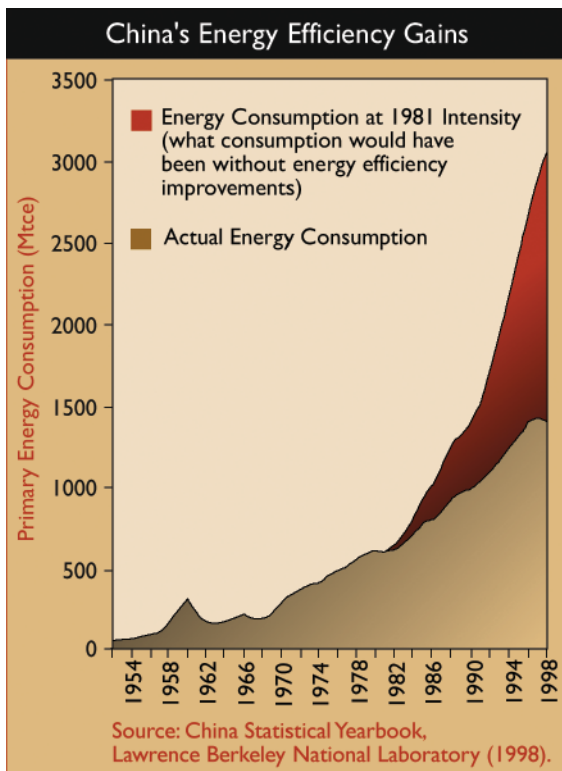
<sup>11</sup> Vehicle sales cooled somewhat in 2004, to 20 percent year-on-year, due to government restrictions on consumer credit.

China's vehicle fleet could quadruple to 115 million cars and trucks by 2020, requiring 9 million barrels of oil per day (3.3 billion barrels in that year), over 60 percent to come from imports.

Oil, in turn, is behind the majority of air pollution in most of China's larger cities—stemming largely from vehicles powered by dirty, high-sulfur fuels. China's refineries are ill-equipped to process high-sulfur crude oil imports, and churn out gasoline with sulfur content in excess of 800 parts per million (ppm), and diesel with sulfur exceeding 2000 ppm. In contrast, OECD countries are moving to 15 ppm sulfur in both gasoline and diesel. China's dirty fuels are a primary culprit in epidemic levels of respiratory illnesses.

## TOWARD CLEAN ENERGY SOLUTIONS

China's leadership grasps the seriousness of its energy challenge. Encouragingly, energy efficiency is national policy in China, and has been for twenty-five years.



China's energy intensity, the amount of energy consumed per dollar of GDP, steadily improved from 1980-2001 at a rate significantly faster than the U.S. Since then, however, China has flipped the historic trend: energy is now growing at almost twice the rate of economic growth, due to (1) inadequate investment in energy efficiency, and (2) rising incomes spurring demand for energy-consuming goods. ("China revised" data corrects for China's official GDP statistics by reducing GDP by an average two percentage points throughout the 1980s and 1990s.)

During China's Four Modernizations (1980-2000), China succeeded in growing its energy use at half the pace of economic growth; that is, GDP quadrupled while energy only doubled. Since most developing countries grow their economies in a one-to-one correlation with energy growth, China's achievement is remarkable.

Today, however, China is struggling. China's leaders, as they survey the results of 25 years of reform, have cause for great pride, having enhanced economic opportunities and life prospects for hundreds of millions of Chinese. Nevertheless, the environmental and public health costs from burning coal and oil in relatively inefficient and polluting technologies are staggering.



China's previous "decoupling" of energy growth from economic growth was achieved under a centrally-planned economy. Since the late-1990s, China's leaders unleashed market forces that have flipped the historic trend: energy demand is now galloping at over one-and-a-half times the rate of economic growth. The leaders recently adopted a number of laws, regulations, and incentives to temper demand and drive investment into energy efficient technologies, described below.

To date, implementing these efficiency policies, however, falls short of what's needed; China's investment in energy efficiency, as a proportion of total energy sector investment, has dropped markedly since its peak in 1983, and today is only a third of historic highs. Enforcement infrastructure remains particularly weak.<sup>12</sup>

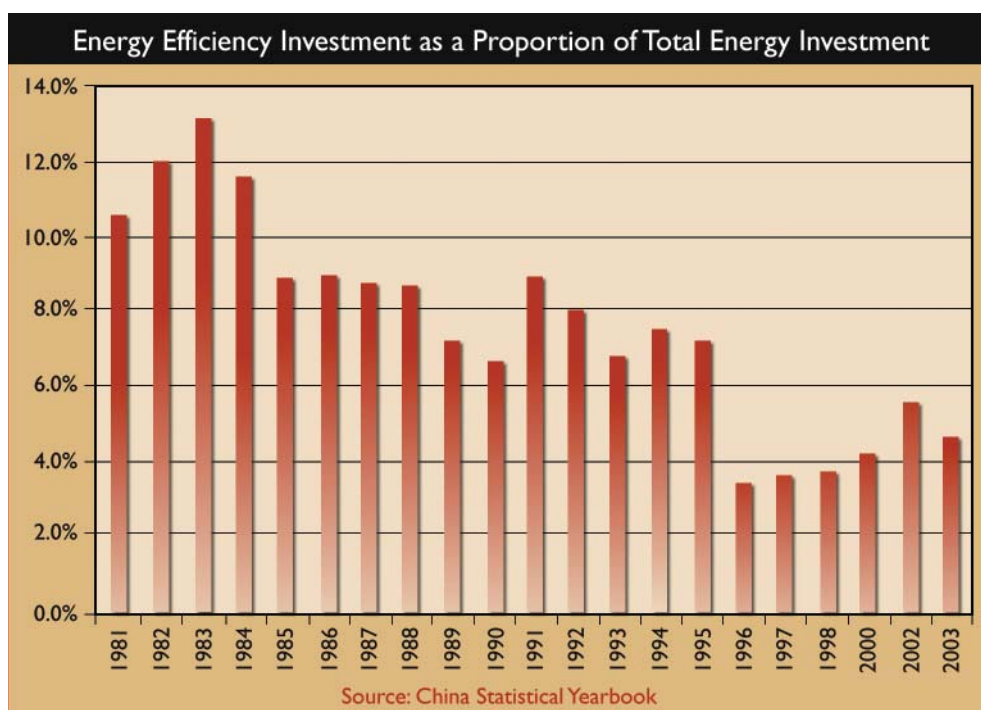
Without moving more aggressively to invest in energy efficiency, China could well stumble on its path to achieving its 2020 target of quadrupling GDP. Already, bottlenecks in mining and transporting coal are materializing; economic shocks from energy shortages affecting heavy industries are having widespread ripple effects.

"Unauthorized" power plants—those built by local jurisdictions without approvals from Beijing—are springing up far faster than demand growth justifies, which will soon lead to electricity surpluses, disincentives for efficiency, and a "bust" cycle for energy investment.

Investment in energy efficiency and renewable energy affords the most rapid, cost-effective means for moving China toward economic and environmental sustainability. Encouragingly, the Chinese are diligently developing and implementing new policies, laws, and regulations aimed at mobilizing clean energy technologies. As China's Vice Premier said at a recent sustainable energy conference in Beijing, "Energy efficiency is not just one of our core strategies; it has to be *the* core energy strategy."

### NEW TRANSPORTATION POLICIES

The staggering growth of China's vehicle fleet is leaving the bicycle in the dust. Car purchases now dominate economic activity; new car sales in major cities exceeded 20 percent year-on-year in 2004.



China's investment in energy efficiency, as a proportion of total energy investment, peaked in 1983. Today, efficiency investment is a mere one-third of historic highs.

<sup>12</sup> China's central government holds provincial and local government officials responsible for economic development, as well as for enforcing energy and environmental laws. Yet economic development has a clear priority; local officials are under pressure to maximize employment and tax revenues. China needs reformed clean energy and environmental incentive policies and enforcement infrastructure at all government levels.



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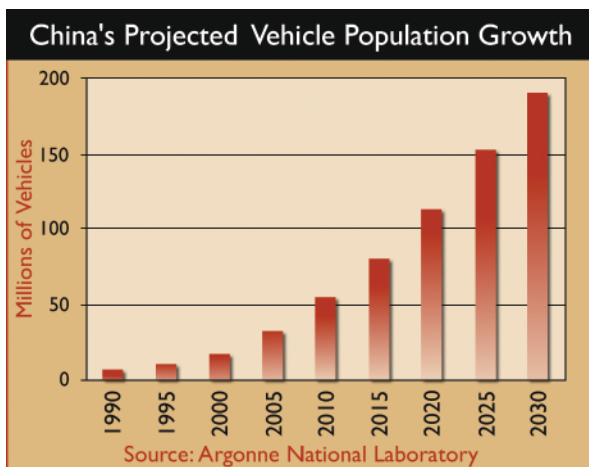
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China fully intends to continue building a modern vehicle industry, including private cars for its citizens. But keeping a secure and affordable supply of oil for these vehicles is a growing national concern.

The Chinese have embarked on a two-pronged approach to temper demand for oil: strong fuel economy standards to encourage only the most efficient vehicles, and effective mass transit to provide urban residents with a viable alternative to the use of cars. Both approaches can substantially improve urban air quality and public health while taming the nation's thirst for oil.

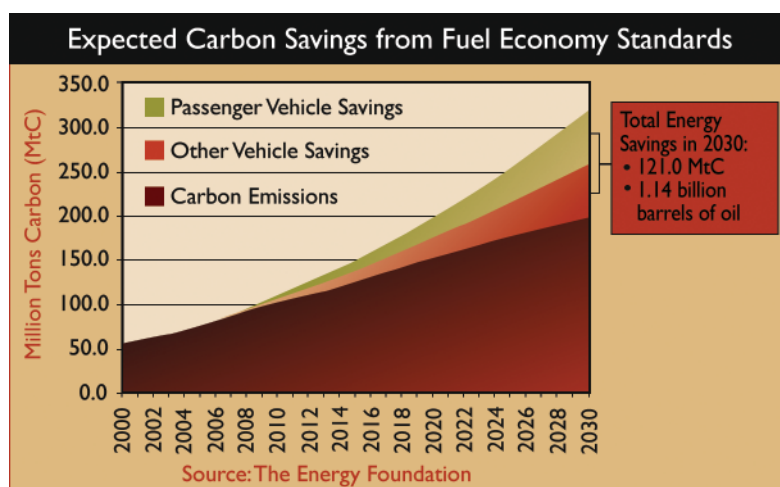
In September 2004, China's Standardization Administration finalized fuel economy standards for light-duty vehicles—cars and light trucks, including sport utility vehicles (SUVs)—that are up to twenty percent

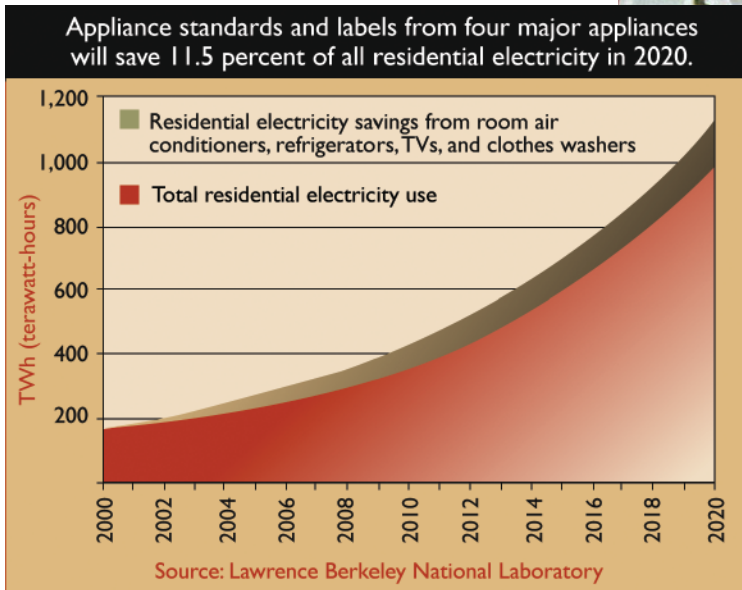
more stringent than U.S. CAFE standards. The standards will save 60 million tons of carbon in 2030, displacing 517 million barrels of oil in that year—equivalent to removing 35 million cars from the road. China's leaders are serious about enforcing the standards—vehicles that don't meet the standards cannot be certified for sale or operation—and intend to broaden them to include heavy duty trucks.

On December 25, 2004, Beijing opened the first segment of China's first bus rapid transit (BRT) corridor. Connecting to Beijing's subway system at Tiananmen Square, the corridor is the initial stage of a planned 200-kilometer BRT system that will move Beijing's residents in exclusive-lane buses, station-to-station, with subway efficiency, at only 5-10 percent of subway costs. Nineteen more major cities, including Shanghai, Chengdu, Xian, Kunming, and Hangzhou, plan to build BRT systems as a means to alleviate vehicle congestion and excessive reliance on fuel imports.

## BUILDINGS

China's construction boom is the largest and fastest in human history. China has been building 400 million square meters of commercial and residential building space—about 80,000 high-rise buildings—every year for fifteen years. Only about five percent of these have been built to the standards of a modern energy code. China's buildings consume 27.5 percent of the nation's total energy—and rising. Codes require buildings to use modern materials, insulation, and advanced windows to reduce energy leakage.





Codes also catalyze economic development—new industries emerge to produce advanced, energy efficient products that meet code requirements. China’s Ministry of Construction recently adopted national commercial and residential codes for both Central and South China that, if well enforced, could reduce carbon emissions by 49 million tons in 2020, displacing the need for 23 large (1,000-megawatt) coal-fired power plants.

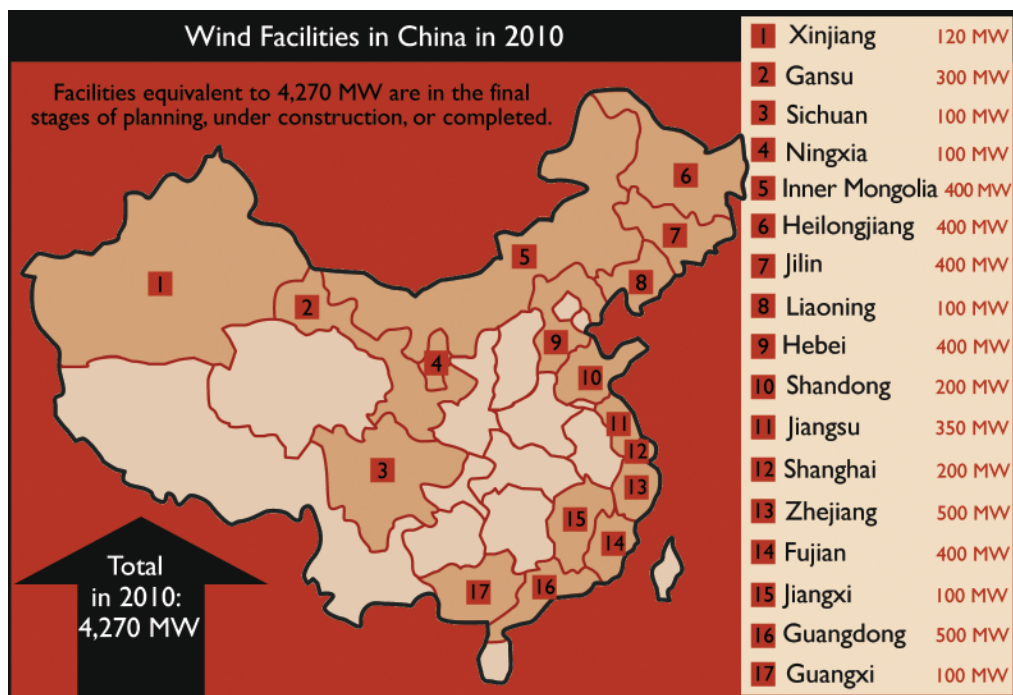
China makes more consumer appliances—refrigerators, air conditioners, light bulbs, washing machines and the like—than any other country. Just the increase in new air conditioners in China this year alone will exceed the entire capacity of the massive Three Gorges Dam.<sup>13</sup>

Requiring appliances to be more energy efficient is one of the most effective means of cutting electricity growth, and thereby displacing carbon emissions from coal-fired power plants. Advanced standards also catalyze economic development by spurring the most advanced manufacturing approaches.

China has adopted efficiency standards over the last five years for refrigerators, air conditioners, clothes washers, and televisions that will cut 30 million tons of carbon emissions and displace 17 large (1,000-megawatt) coal-fired power plants in 2020.



<sup>13</sup> Lawrence Berkeley National Laboratory.



Wind energy could climb to 20,000 megawatts by 2020 under China's new National Renewable Energy Law. Such capacity volume could bring costs below U.S. five cents per kilowatt-hour in wind-rich areas.

## RENEWABLE ENERGY

If China develops even half its conservatively-estimated wind resources, it could generate 380 million megawatt-hours of power each year—about one-eighth of the country's current demand—displacing the need for 154 million tons of coal, and cutting 2.75 million tons of sulfur dioxide and 101 million tons of carbon emissions. China has begun to tap its renewable energy potential.

The key to China's progress has been policies to encourage volume production of renewable energy technologies aimed at bringing unit costs down. China is poised to adopt a national Mandatory Market Share (MMS) regulation requiring ten percent of all primary energy to come from renewable energy in 2020. Other national policies call for 120,000 megawatts of renewable

energy facilities by that year, including 20,000 megawatts of wind. Two provinces, Fujian and Sichuan, are piloting MMS programs; Fujian will build 400 megawatts of wind facilities by 2010 to implement the first phase of its MMS program.

China is jump-starting its MMS program by launching "wind concession programs"—long-term supply contracts with new wind energy facilities. Guangdong, Jiangsu, Jilin, and Inner Mongolia have auctioned wind development rights to private developers, contracting some \$600 million in new wind installations to be built over the next two years. All in, China has announced 4,270 megawatts of new wind facilities by 2010, a potential investment of over \$4 billion (U.S.).

## OPPORTUNITIES FOR PHILANTHROPY

China actively seeks help from the international community to solve its energy and environmental challenges. China's leaders are eager to (1) establish energy efficiency and renewable energy technology targets, incentives, and mandates that in turn can move private capital into commercializing the cleanest technologies, and (2) invest government dollars in R&D in order to commercialize the newest, cleanest energy technologies. Also needed are "institution-building" investments in government capacity, including training government personnel to monitor, verify, and enforce new technology targets, incentives, and mandates. China's energy policy infrastructure is seriously underfunded, understaffed, and undertrained; for example, only eight people oversee China's development of appliance efficiency standards nationwide.

The Chinese leadership has embraced targeted forms of international support, including new philanthropic initiatives. In March 1999, after a series of consultations with scientists, policymakers, business leaders, and analysts both in China and internationally,

the staff and boards of The David and Lucile Packard Foundation and The Energy Foundation launched the China Sustainable Energy Program (CSEP). The William and Flora Hewlett Foundation joined as a funding partner in 2002. The Packard and Hewlett foundations provide funding, while the Energy Foundation manages the program. All grants are focused on Chinese energy efficiency and renewable energy policy development. The program has a Beijing office with a staff of Chinese energy policy experts who serve as a bridge between China's energy policymakers and international practitioners. The program benefits from the active advice of two tiers of government advisors, our "Senior Policy Advisory Council" comprised of ministers, and our "Dialogue Partners" comprised of directors general of China's energy-related ministries. At the request of Chinese policymakers, CSEP brings international experts to China for policy development exchanges. All projects are aimed at assisting China to develop clean energy policies in their own way—to transition China to an environmentally sustainable energy future.

China's bursting economy is catalyzing economic opportunities for its citizens and for global markets. But the attendant reliance on coal and oil is producing staggering public health and environmental consequences in China and globally.

Yet there is cause for optimism. China's leaders recognize that clean energy technologies are central to furthering the nation's economic growth while improving the environment. They are eagerly adopting policies to encourage energy efficiency and renewable energy. China has made encouraging progress by adopting vehicle fuel economy standards, bus rapid transit systems, building codes, appliance efficiency standards, and renewable energy incentives. These efforts are laying the ground work for a sustainable energy future.

**CONCLUSION:  
INVESTING  
IN  
SOLUTIONS**

But much more needs to be done. China's policy gains in energy efficiency and renewable energy are at risk of being swamped by the sheer scale and pace of the country's growth and reliance on fossil fuels. Over the next decade, China will invest hundreds of billions of dollars in new energy infrastructure that will dictate the country's consumption and pollution patterns for the next 50-60 years. With redoubled commitment from China's leaders and support from the international community, China's environmentally sustainable energy development can be put on track to succeed.





## PROGRAMS AND GRANTS

The Energy Foundation awards grants and takes direct initiatives in the power, buildings, transportation, and climate 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 year.



### THE CHINA SUSTAINABLE ENERGY PROGRAM (CSEP)

CSEP supports China's policy efforts to increase energy efficiency and renewable energy. CSEP works in six sectors: transportation, buildings, industry, electric utilities, renewable energy, and low-carbon development paths. The program strives to build institutional capacity in China to analyze energy-saving and renewable energy opportunities, to support policy development to further energy efficiency and renewable energy in accordance with China's policy priorities, and to assist with implementation of those policies.

The program is geared toward helping Chinese agencies, experts, and entrepreneurs solve energy challenges for themselves, bringing in international expertise when requested.



## 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 capturing demand-side energy efficiency opportunities through demand-side management programs, public benefits wires charges, clean energy technology tax incentives, distributed generation policy mechanisms, integrated resource planning policy development, etc. The Electric Utilities Program strives to implement policy mechanisms that make energy efficiency profitable to utilities, and 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 broad introduction 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 (a.k.a. mandatory market share), public benefits wires charges, wind concession programs, and renewable energy pricing regulations.

## TRANSPORTATION PROGRAM

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 alternatives to their use, including advanced bus rapid transit systems (BRT). This includes policy development to encourage advanced, electric-drive vehicles through tighter vehicle emissions regulations, stringent fuel economy standards, and enhanced research and development budgets. The program supports efforts to establish robust local air emissions monitoring policies and local "zero-emissions vehicle" incentives to encourage the most advanced electric drive 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 exclusive lane, station-to-station BRT systems.

## BUILDINGS PROGRAM

The torrid pace of China's buildings construction is the largest and fastest in human history. The goal of the Buildings Program is to encourage construction of energy efficient buildings, as well as development of efficient appliances and equipment. The Program supports residential and commercial building codes development, and implementation and enforcement pilot programs in Central and South China. The Program also supports appliance efficiency standards and labeling programs nationwide, including advanced efficiency standards for lighting, refrigeration, air conditioning, office equipment, etc. This includes support for standards development, implementation, and enforcement practices.

## INDUSTRY PROGRAM

The Industry Program supports China's goal to decrease energy consumption in large industrial enterprises through equipment standards, including efficiency standards for electric motors, fans, pumps, air compressors, etc. The Program also supports tax and fiscal measures to catalyze energy efficiency performance agreements by enterprises in China's most energy-consumptive industries, primarily in the iron and steel sector.

## LOW-CARBON DEVELOPMENT PATHS

China's energy planning demands an integrated perspective. What contributions 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 coal- or oil-dominated energy development? The Low-Carbon Development Paths Program focuses on developing analytic tools to help China's energy planners anticipate the future impacts of today's policy decisions. The Program supports the development of sustainable energy scenarios and the policies necessary to achieve them, as well as analyses of "all-in" social and public health costs associated with China's energy policy decisions. The Program has supported scenarios for China's carbon emissions over the 2000-2020 time frame, and articulation of the policies necessary for achieving cost-effective carbon reductions.

## CHINA ■ ELECTRIC UTILITIES

**Beijing Energy Efficiency Center**

15th Floor, B-Building, Guohong Mansion,  
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  
2004 Amount \$32,000 Duration: One year  
To develop national demand-side management (DSM) policies, to incorporate DSM into power sector reforms, and to coordinate provincial DSM pilots.

**China Agricultural University**

No. 17 Tsinghua East Road  
Beijing, 100083 P.R. CHINA  
PHONE: 86-10-6273-6518  
2004 Amount \$25,000 Duration: Six months  
To generate policy and regulatory recommendations for natural gas power generation in China's emerging, competitive power generation market.

**Energy Research Institute**

**National Development and Reform Commission (formerly State Development Planning Commission)**  
1508, Guohong Mansion,  
Jia (A) 11, Muxidi Beili, Xicheng District  
Beijing, 100038 P.R. CHINA  
PHONE: 86-10-6390-8568  
2004 Amount \$50,000 Duration: One year  
To design and implement a national public benefits fund that supports energy efficiency and renewable energy in China's power sector.  
2004 Amount \$50,000 Duration: One year  
To generate policy and regulatory recommendations for natural gas power generation in China's emerging, competitive power generation market.

**Guangdong Energy Conservation Center**

No. 11, Lianxin Road  
Guangzhou, Guangdong 510030 P.R. CHINA  
PHONE: 86-20-8335-1728  
2004 Amount \$50,000 Duration: One year  
To develop and implement demand-side energy efficiency policy programs in Guangdong Province.

**Institute of Economic Research**

**National Development and Reform Commission**  
B-1317, Guohong Mansion,  
Jia 11, Muxidi Beili, Xicheng District  
Beijing, 100038 P.R. CHINA  
PHONE: 86-10-6390-8367  
2004 Amount \$90,000 Duration: One year  
To design a power tariff mechanism to level the competitive playing field for clean power generation technologies and end-use efficiency in China's power sector.

**Institute of Economic System and Management**

**National Development and Reform Commission**  
No. 1 Nan Cao Chang Street  
Beijing, 100035 P.R. CHINA  
PHONE: 86-10-6618-8884  
2004 Amount \$150,000 Duration: One year  
To integrate public benefits into China's electricity sector regulatory reforms.

**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  
2004 Amount \$50,000 Duration: Ten months  
To support NRDC's work with the Shanghai and Jiangsu governments to develop and implement demand-side management (DSM) programs.  
2004 Amount \$40,000 Duration: One year  
To develop national DSM policies, to incorporate DSM into power sector reforms, and to coordinate provincial DSM pilots.

**Regulatory Assistance Project**

177 Water Street  
Gardiner, ME 04345  
PHONE: 207-582-1135  
EMAIL: rapmaine@rapmaine.org  
WEBSITE: www.rapmaine.org  
2004 Amount \$43,000 Duration: Six months  
To provide training to senior staff of the China State Electricity Regulatory Commission in U.S. electric utility regulatory laws, policies, and procedures.  
2004 Amount \$230,000 Duration: One year  
To provide international best practice training for integrating public benefits into China's power sector reforms.

**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  
2004 Amount \$30,000 Duration: One year  
To coordinate provincial demand-side management pilots.

**State Grid Corporation DSM Instruction Center**

No. 249 Zhongshan Road  
Nanjing, Jiangsu, 210008 P.R. CHINA  
PHONE: 86-25-331-8910  
2004 Amount \$65,000 Duration: One year  
To develop and implement demand-side energy efficiency programs in Jiangsu Province.

**State Power Economic Research Center**

**China State Power Corporation**  
1 Ertiao Baiguang Road  
Beijing, 100761 P.R. CHINA  
PHONE: 86-10-6341-6602  
2004 Amount \$48,000 Duration: One year  
To develop national demand-side management (DSM) policies, to incorporate DSM into power sector reforms, and to coordinate provincial DSM pilots.

## CHINA ■ RENEWABLE ENERGY

**Center for Renewable Energy Development, ERI**

Guohong Mansion,  
Jia (A) 11, Muxidi Beili, Xicheng District  
Beijing, 100038 P.R. CHINA  
PHONE: 86-10-6390-8467/8466/8468  
2004 Amount \$30,000 Duration: One year  
To continue support of development of a national renewable energy comprehensive policy.

**Center for Resource Solutions**

Presidio Building 97  
P.O. Box 29512  
San Francisco, CA 94129  
PHONE: 415-561-2100  
WEBSITE: [www.resource-solutions.org](http://www.resource-solutions.org)  
2004 Amount \$200,000 Duration: One year  
To provide international best practice training and capacity building for the China Sustainable Energy Program renewable energy program.

**Energy Research Institute**

National Development and Reform Commission  
Center for Renewable Energy Development  
Zhansimen Road, Shahe  
Beijing, 100038 P.R. China  
PHONE: 86-10-6390-8558  
2004 Amount \$80,000 Duration: One year  
To support the design of national and provincial mandatory market share policies and implementation plans.  
2004 Amount \$25,000 Duration: Ten months  
To analyze international best practice policies to help commercialize state-of-the-art renewable energy technologies in China.

**Fujian Energy Research Society**

8F, Block A, Zhongmin Building,  
No. 9 East Yangquiao Road  
Fuzhou, Fujian Province 350000 P.R. CHINA  
PHONE: 86-591-755-3934  
2004 Amount \$50,000 Duration: One year  
To continue support for renewable energy mandatory market share pilots in Fujian and Sichuan provinces.

**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](mailto:secc@guomai.sh.cn)  
WEBSITE: [www.sh-ec.com](http://www.sh-ec.com)  
2004 Amount \$45,000 Duration: One year  
To develop a renewable energy green pricing pilot in Shanghai.

**Sichuan University**

Institute for West Development  
Chengdu, 610065 P.R. CHINA  
#391, Sichuan University  
2004 Amount \$50,000 Duration: One year  
To continue support for renewable energy mandatory market share pilots in Fujian and Sichuan provinces.

**Tsinghua University Education Foundation**

Institute of Energy, Environment, and Economy  
Energy Science Building  
Beijing, 100084 P.R. CHINA  
PHONE: 86-10-6278-3964  
2004 Amount \$60,000 Duration: One year  
To investigate and design mechanisms for implementing a comprehensive renewable energy policy in China.  
2004 Amount \$25,000 Duration: One year  
To develop policy recommendations supporting distributed renewable energy in rural China.  
2004 Amount \$50,000 Duration: One year  
To continue support of national renewable energy comprehensive policies.

## CHINA ■ TRANSPORTATION

**Beijing Automotive Research Institute**

No. 85 Yujiafen Chengshousi, Fengtai District  
Beijing, 100078 P.R. CHINA  
PHONE: 86-10-6762-9683  
2004 Amount \$120,000 Duration: One year  
To assist the Beijing Environmental Protection Bureau with developing an action plan to retrofit Beijing's diesel vehicle fleet.

**Beijing Vehicle Tailpipe Emissions Management Center**

No.5 Wanliu Middle Road, Haidian District  
Beijing, 100089 P.R. CHINA  
PHONE: 86-10-8256-6612  
EMAIL: [wqzlibing@sina.com](mailto:wqzlibing@sina.com)  
2004 Amount \$55,000 Duration: One year  
To support the Beijing Municipal Environmental Protection Bureau to establish enforcement mechanisms for implementing Euro-III vehicle emissions standards and to encourage the use of cleaner vehicles.

**Breakthrough Technologies Institute**

1100 H Street, NW, Suite 800  
Washington, DC 20005  
PHONE: 202-785-4222  
WEBSITE: [www.fuelcells.org](http://www.fuelcells.org)  
2004 Amount \$50,000 Duration: Seven months  
To produce a film promoting bus rapid transit development in China.

**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  
2004 Amount \$80,000 Duration: One year  
To support the Xi'an municipal government to develop bus rapid transit (BRT) network plans and to design BRT demonstration corridors.

**Chengdu Institute of Urban Planning & Design**

No. 2 Wuding Road  
Chengdu, 610081 P.R. CHINA  
PHONE: 86-28-8318-2592  
2004 Amount \$100,000 Duration: One year  
To assist the Chengdu municipal government with developing a detailed implementation plan for bus rapid transit demonstration.  
2004 Amount \$50,000 Duration: Six months  
To support the Chengdu municipal government to develop a transit-oriented development plan and bus rapid transit system.

### China Academy of Transportation Science

Huixinli 240, Chaoyang District  
Beijing, 100029 P.R. CHINA  
PHONE: 86-10-6496-4252

2004 Amount \$100,000 Duration: Two years  
To support the development of a national sustainable transportation strategy for China and disseminate it to senior central government leaders and ministries.

### China Automotive Technology and Research Center

Tianshanlukou, Chenglinzhuangdao  
P.O. Box 59

Tianjin, 300162 P.R. CHINA  
PHONE: 022-8477-1277

EMAIL: info@catarc.ac.cn

WEBSITE: www.catarc.ac.cn/

2004 Amount \$100,000 Duration: One year  
To analyze environmental and energy savings benefits from establishing a market-based financial incentive mechanism for advanced vehicle technologies and transportation system reform.

2004 Amount \$120,000 Duration: One year  
To develop an enforcement mechanism and Euro-IV fuel quality standard to ensure the implementation of Beijing local Euro-III and Euro-IV vehicle emission standards.

2004 Amount \$70,000 Duration: One year  
To support the National Development and Reform Commission (NDRC) to develop incentive policies to promote hybrid technologies.

2004 Amount \$100,000 Duration: One year  
To support the National Development and Reform Commission to conduct a policy study on an implementation mechanism for fuel efficiency policies.

2004 Amount \$150,000 Duration: One year  
To support the NDRC to develop a light-duty truck fuel efficiency standard.

2004 Amount \$80,000 Duration: One year  
To work with the NDRC to develop technical standards and certification management policies that would allow hybrid vehicles to enter the market.

### China National Petroleum and Chemical Planning Institute

Building No.16, QiQu, Hepingli  
Beijing, 100013 P.R. CHINA  
PHONE: 86-10-6428-0159

2004 Amount \$100,000 Duration: One year  
To assist the National Development and Reform Commission with developing a national alternative fuel development strategy.

### Chongqing Setra Transportation Information Association

No. 231-102, Longhu Garden, Yubei District  
Chongqing, 401187 P.R. CHINA  
PHONE: 86-23-6361-6250

2004 Amount \$60,000 Duration: One year  
To support the Chongqing government to integrate hybrid bus technologies into a bus rapid transit system.

### Energy and Transportation Technologies, LLC

42977 Ashbury Drive  
Novi, MI 48375

PHONE: 248-347-9004

EMAIL: fengan@ameritech.net

2004 Amount \$25,000 Duration: One year  
To analyze the feasibility and cost-effectiveness of applying fuel efficiency technologies to China's light-duty truck and heavy-duty vehicle fleet, and develop the scientific basis for adopting fuel efficiency standards for light-duty trucks and heavy-duty vehicles.

### Global Environmental Institute

2-1-102, Xin Shi Jie Jia Yuan,  
Chongwenmen Avenue  
Beijing, 100062 P.R. CHINA

PHONE: 86-10-6708-3192

2004 Amount \$50,000 Duration: One year  
To support initial-stage development of an independent non-governmental "Bus Rapid Transit Technical Center" to provide technical outreach to Chinese cities seeking to solve mass transit challenges through bus rapid transit development.

### Harvard University Office For Sponsored Research

John F. Kennedy School of Government

79 John F. Kennedy Street  
Cambridge, MA 02138-3800

PHONE: 617-495-5501

2004 Amount \$50,000 Duration: One year  
To assist the National Development and Reform Commission, the Ministry of Science and Technology, and the China Automotive Technology Research Center to develop policies for hybrid vehicle development in China.

### Institute for Transportation and Development Policy

115 West 30th Street, Suite 1205  
New York, NY 10001

PHONE: 212-629-8001

EMAIL: mobility@itdp.org

WEBSITE: www.itdp.org

2004 Amount \$100,000 Duration: One year  
To analyze the financial structure of both international and Chinese public transit development and recommend financial policies to encourage public transit development in China.

### Kunming Urban Transportation Planning Institute

213 Shang Yi Street

Yunnan Province

Kunming, 650041 P.R. CHINA

PHONE: 86-871-317-1401

2004 Amount \$60,000 Duration: One year  
To continue assistance to the Kunming municipal government to make further improvements on its bus priority transit system.

### Shanghai Academy of Environmental Sciences

508 Qinzhou Road

Shanghai, 200233 P.R. CHINA

PHONE: 86-21-6408-5119

2004 Amount \$65,000 Duration: One year  
To support analysis of the environmental impacts and public health costs of vehicle emissions in order to encourage a vehicle emissions control policy pilot and advanced technology development in Shanghai.

### Shanghai City Comprehensive Transportation Planning Institute

11/F, No.331 Tongren Road  
Shanghai, 200040 P.R. CHINA  
PHONE: 86-21-6247-2318

2004 Amount \$60,000 Duration: One year  
To support the Shanghai municipal government to develop a bus rapid transit system.

### Shanghai Tongji University

#### Clean Energy Automotive Center

Shanghai, 200092 P.R. CHINA  
PHONE: 86-21-6563-6163  
EMAIL: weidinglong@online.sh.cn

2004 Amount \$80,000 Duration: One year  
To assist the Shanghai municipal government to promote and demonstrate advanced technology vehicles.

### Shanghai Urban Transportation Design Institute

5/F, East Building, No.1218 Waima Road  
Shanghai, 200040 P.R. CHINA  
PHONE: 86-21-6376-5250

2004 Amount \$100,000 Duration: One year  
To support the Shanghai municipal government to develop a bus rapid transit system.

### Shenzhen Research Centre of Municipal Development

Room 602, 1034th Shangbu Road Central  
Shenzhen, 518001 P.R. CHINA  
PHONE: 07-55-8209-9698

2004 Amount \$100,000 Duration: One year  
To assist the Shenzhen Environmental Protection Bureau with developing policies to manage and control vehicle emissions in Shenzhen.

### The Municipal Plan and Design Institute of Shanghai

Room 901, No.331 Tongren Road  
Shanghai, 200040 P.R. CHINA  
PHONE: 86-21-6247-2869

2004 Amount \$60,000 Duration: One year  
To support the Shanghai municipal government to develop a bus rapid transit system.

### Tianjin Electric Drive Vehicle Research Center

287 Heping Road, Heping District  
Tianjin, 300041 P.R. CHINA  
PHONE: 86-22-2712-3357

2004 Amount \$70,000 Duration: One year  
To encourage the Tianjin municipal government to demonstrate and commercialize hybrid-electric bus technologies.

### Tsinghua University Education Foundation

#### Institute of Environmental Science and Engineering

Tsinghua University, Haidian District  
Beijing, 100084 P.R. CHINA  
PHONE: 86-10-6278-3964

2004 Amount \$75,000 Duration: One year  
To work with the National Development and Reform Commission and the State Environmental Protection Administration to develop a schedule for tightening China's fuel quality standards.

2004 Amount \$50,000 Duration: One year  
To support China's efforts to reduce vehicle emissions by developing improved airshed and emissions analytic models.

2004 Amount \$80,000 Duration: One year  
To study and recommend an achievable schedule to adopt more stringent vehicle emission standards and associated fuel quality standards.

## 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  
2004 Amount \$30,000 Duration: One year  
To continue support of the China Energy-Efficient Windows Initiative, which encourages Chinese energy-efficient windows manufacturers to help develop advanced building codes and to incorporate efficient windows into those codes.

### Beijing Hengyihe Research Institute of Building Energy Efficiency and Environmental Protection

Scientific Research Building Beijing Normal University No. 10, Wenhuiyuan Beilu,  
Haidian District,  
Beijing, 100037 P.R. CHINA  
PHONE: 86-10-6220-0219

2004 Amount \$36,000 Duration: One year  
To support cost-benefit analysis of energy-efficient buildings.

### China Building Energy Efficiency Association

1 Xinhua Road, Nanyuan  
Beijing, 100076 P.R. CHINA  
PHONE: 86-10-6796-0360  
EMAIL: fxtu@public.nta.net.cn

2004 Amount \$60,000 Duration: 15 months  
To develop Typical Meteorological Year data in China for implementing building energy codes.

### China Certification Center for Energy Conservation Product

No. 4 Zhichun Road, Haidian District  
Beijing, 100088 P.R. CHINA  
PHONE: 86-10-5881-1578  
WEBSITE: www.cecp.org.cn

2004 Amount \$40,000 Duration: One year  
To support development of an energy efficiency standard and labeling program for power supplies.

### China Certification Center for Energy Conservation Product

No. 4 Zhichun Road, Haidian District  
Beijing, 100088 P.R. CHINA  
PHONE: 86-10-5881-1578  
WEBSITE: [www.cecp.org.cn](http://www.cecp.org.cn)  
2004 Amount \$40,000 Duration: One year  
To assist China in developing a minimum energy efficiency standard for power supplies.

### China Certification Center for Energy Conservation Product

No. 4 Zhichun Road, Haidian District  
Beijing, 100088 P.R. CHINA  
PHONE: 86-10-5881-1578  
WEBSITE: [www.cecp.org.cn](http://www.cecp.org.cn)  
2004 Amount \$50,000 Duration: One year  
To develop a government procurement policy framework and implementation regulations.

### China National Institute of Standardization

No. 4, Zhichun Road, Haidian District  
Beijing, 100088 P.R. CHINA  
PHONE: 86-10-5881-1720  
EMAIL: [liax@cnis.gov.cn](mailto:liax@cnis.gov.cn)  
Website: [www.cnis.gov.cn](http://www.cnis.gov.cn)  
2004 Amount \$55,000 Duration: 18 months  
To assist China to develop a national energy efficiency standard for gas water heaters.

### Fuzhou Sixin Science Development and Promotion Center

No. 54 Middle Wuyi Road  
Fuzhou, 350005 P.R. CHINA  
PHONE: 86-591-711-0750  
EMAIL: [fzccsd@pub2.fz.fj.cn](mailto:fzccsd@pub2.fz.fj.cn)  
2004 Amount \$35,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.

### Guangzhou Institute of Building Science

8/F No.4 Guangwei Road, Guangzhou,  
Guangdong, 510030 P.R. CHINA  
PHONE: 86-20-2609-5216  
EMAIL: [renjun@gibs.com.cn](mailto:renjun@gibs.com.cn)  
2004 Amount \$35,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.

### Information Center of Ministry of Construction

No.9 Sanlihe Road  
Beijing, 100835 P.R. CHINA  
PHONE: 86-10-6835-5417  
2004 Amount \$60,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.

### Lawrence Berkeley National Laboratory

1 Cyclotron Road  
Berkeley, CA 94720  
PHONE: 510-486-5000  
WEBSITE: [eetd.lbl.gov/ea/china/index.html](http://eetd.lbl.gov/ea/china/index.html)  
2004 Amount: \$100,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.  
2004 Amount: \$100,000 Duration: 18 months  
To assist China to develop a national energy efficiency standard for gas water heaters.  
2004 Amount: \$60,000 Duration: 14 months  
To develop Typical Meteorological Year data in China for implementing energy efficiency building codes.  
2004 Amount: \$60,000 Duration: One Year  
To accelerate the adoption of "reach" energy efficiency standards for appliances in Shanghai.

### Research Institute for Fiscal Science, Ministry of Finance of the People's Republic of China

Xinzhi Mansion, No. 28, Fucheng Road,  
Haidian District  
Beijing, 100036 P.R. CHINA  
PHONE: 86-10-8819-0929  
2004 Amount \$20,000 Duration: Six months  
To support the development of fiscal policies, including incentive and tax policies, for commercializing energy-efficient appliances and equipment.

### Research Institute for Standards and Norms, Ministry of Construction

Bai Wan Zhuang  
Beijing, 100835 P.R. CHINA  
PHONE: 86-10-6839-3472  
2004 Amount \$20,000 Duration: One year  
To continue support of the China Energy-Efficient Windows Initiative, which encourages Chinese energy-efficient windows manufacturers to help develop advanced building codes and to incorporate efficient windows into those codes.

### 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](mailto:secc@guomai.sh.cn)  
WEBSITE: [www.sh-ec.com](http://www.sh-ec.com)  
2004 Amount \$35,000 Duration: One year  
To accelerate the adoption of "reach" energy efficiency standards for appliances in Shanghai.

### Shenzhen Institute of Building Research

5F, Design Building, 8 Zhenghua Road  
Shenzhen, Guangdong, 518031 P.R. CHINA  
PHONE: 86-0755-8378-6014  
2004 Amount \$35,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.

### Tongji University

1239 Siping Road  
Shanghai, 200092 P.R. CHINA  
PHONE: 86-21-6563-6163  
EMAIL: [weidinglong@online.sh.cn](mailto:weidinglong@online.sh.cn)  
2004 Amount \$40,000 Duration: One year  
To conduct an analysis of energy savings potential as the basis for developing best practice "reach" air conditioner standards in Shanghai.

### Xiamen Academy of Building Research

No. 62 Southern Hubin Road  
Xiamen, 361004 P.R. CHINA  
PHONE: 86-592-220-7462  
2004 Amount \$35,000 Duration: One year  
To support building code implementation in the "Hot-Summer Warm-Winter" (South China) climate zone.

## 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

2004 Amount \$15,000 Duration: Six months  
To support a feasibility study on developing industrial equipment reach standards.

2004 Amount \$5,000 Duration: Six months  
To support international and Chinese industrial systems efficiency experts in their efforts to incorporate energy efficiency improvements into the ISO 9000/14000 compliance plans of large energy-consuming industrial enterprises in Jiangsu and Shanghai.

2004 Amount \$25,000 Duration: 18 months  
To develop a reach standard for China's electric motors.

**Beijing Sustainable Development Center**

No. 16 Xizhimen Nandajie  
Beijing, 100035 P.R. CHINA  
PHONE: 86-10-6612-2492

2004 Amount \$40,000 Duration: One year  
To support the development of cogeneration policies, including grid interconnection regulations.

**China Energy Conservation Association National Development and Reform Commission**

No. 18, Bei San Huan Dong Lu  
Beijing, 100013 P.R. CHINA  
PHONE: 86-10-6427-6393  
EMAIL: ceca@mail.263.net.cn

2004 Amount \$20,000 Duration: One year  
To promote the development of industrial sector Energy Efficiency Agreements.

**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

2004 Amount \$30,000 Duration: One year  
To develop Energy-Efficient Technology Guidelines for China's key energy-consuming industrial enterprises.

**China National Institute of Standardization**

No. 4, Zhichun Road, Haidian District  
Beijing, 100088 P.R. CHINA  
PHONE: 86-10-5881-1720  
EMAIL: liax@cnis.gov.cn  
WEBSITE: www.cnis.gov.cn

2004 Amount \$40,000 Duration: Six months  
To support a feasibility study on developing industrial equipment reach standards.

**Lawrence Berkeley National Laboratory**

1 Cyclotron Road  
Berkeley, CA 94720  
PHONE: 510-486-5000  
WEBSITE: eetd.lbl.gov/ea/china/index.html

2004 Amount: \$34,000 Duration: One Year  
To design industrial Energy Efficiency Agreements for China.

2004 Amount: \$45,000 Duration: One Year  
To support international and Chinese industrial systems efficiency experts to incorporate energy efficiency improvements into the ISO 9000/14000 compliance plans of large energy consuming industrial enterprises in Jiangsu and Shanghai.

**North China Electric Power University**

Deshengmenwai Zhuxinzhuang  
Beijing, 102206 P.R. CHINA  
PHONE: 86-10-8079-8713

2004 Amount \$40,000 Duration: One year  
To develop a computer model that quantifies the environmental benefits of cogeneration.

**Peking (Beijing) University**

College of Environmental Sciences  
Beijing, 100871 P.R. CHINA  
PHONE: 86-10-6275-3328

2004 Amount \$36,000 Duration: One year  
To design industrial Energy Efficiency Agreements for China.

## CHINA ■ LOW-CARBON DEVELOPMENT

**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

2004 Amount \$150,000 Duration: One year  
To develop an integrated carbon emissions and energy demand modeling tool aiming to demonstrate the substantial potential of energy efficiency and renewable energy in helping China achieve its 2020 economic development goals.

**Beijing Sustainable Development Center**

No. 16 Xizhimen Nandajie  
Beijing, 100035 P.R. CHINA  
PHONE: 86-10-6612-2492

2004 Amount \$50,000 Duration: One year  
To support Beijing's efforts to develop and implement low-carbon policy action plans that encourage energy efficiency and renewable energy technology investment.

**China Energy Research Society**

No. 54 Sanlihe Road, Xicheng District  
Beijing, 100045 P.R. CHINA  
PHONE: 86-10-6851-1816  
EMAIL: cers@mx.cei.gov.cn

2004 Amount \$70,000 Duration: One year  
To support the bundling of new energy efficiency and renewable energy policy recommendations, as developed by leading Chinese energy policy research institutes and their international policy advisors, and disseminate those policy recommendations and implementation plans to the State Council, National Development and Reform Commission, and other responsible government agencies.

**Chinese Academy of Social Sciences**

No. 5 Jianguomennei Dajie  
Beijing, 100732 P.R. CHINA  
PHONE: 86-10-6513-7744

2004 Amount \$15,000 Duration: Five months  
To assist in energy efficiency and renewable energy policy development and implementation of China's National Energy Plan 2004-2020.



### Development Research Center of the State Council

No. 225 Chaoyangmen Nei Dajie,  
Dongcheng District  
Beijing, 100010 P.R. CHINA  
PHONE: 86-10-6522-9259

2004 Amount \$50,000 Duration: One year  
To support continued work with CSEP grantees in all program areas to submit key policy recommendations to the State Council.

### Energy Research Institute

National Development and Reform Commission  
(formerly State Development Planning Commission)

1508, Guohong Mansion,  
Jia (A) 11, Muxidi Beili, Xicheng District  
Beijing, 100038 P.R. CHINA  
PHONE: 86-10-6390-8568

2004 Amount \$130,000 Duration: One year  
To support Chinese research institutes to incorporate environmental and public health costs into scenario analysis in order to promote the speedy adoption of “all-in costs” energy pricing.

2004 Amount \$25,000 Duration: Five months  
To assist in energy efficiency and renewable energy policy development and implementation of China’s National Energy Plan 2004-2020.

### Global Village of Beijing

A5-6-103, Jiaming Garden  
86 Beiyuan Road, Chaoyang District  
Beijing, 100101 P.R. CHINA  
PHONE: 86-10-6489-1038/1039  
EMAIL: gvb@public3.bta.net.cn  
WEBSITE: www.gvbchina.org

2004 Amount \$60,000 Duration: One year  
To support outreach to and education of China’s media in order to promote public awareness and local momentum for implementation of energy efficiency and renewable energy policies.

### Lawrence Berkeley National Laboratory

1 Cyclotron Road  
Berkeley, CA 94720  
PHONE: 510-486-5000  
WEBSITE: [www.eetd.lbl.gov/ea/china/index.html](http://www.eetd.lbl.gov/ea/china/index.html)

2004 Amount: \$100,000 Duration: One year  
To assist China’s leading energy policy research institutes, and the cities of Beijing and Shanghai, with developing energy efficiency and renewable energy policies that reflect international best practices.

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. But the Department of Energy is late in setting many new standards. Nine appliances are ready for efficiency requirements. Setting these standards could cut the energy equivalent of 112 medium-sized power plants in 2020. Moreover, standards on 18 additional appliances and equipment can reduce our residential and commercial electricity use by another 64 power plants in 2020 and save \$60 billion by 2030, with a benefit to cost ratio of 9-to-1.

## BUILDINGS

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 2003, raise 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; and
- create public policy incentives that pull super-efficient appliances and equipment into the market and result in buildings that surpass model energy codes by 30 to 50 percent.

**Alliance to Save Energy**

1200 18th Street, NW, Suite 900  
 Washington, DC 20036  
 PHONE: 202-857-0666  
 EMAIL: [info@ase.org](mailto:info@ase.org)  
 WEBSITE: [www.ase.org](http://www.ase.org)  
 2004 Amount \$60,000 Duration: One year  
 To assist policymakers, industry, consumers, and other stakeholders to understand the benefits of energy-efficient equipment and building practices.

**Alliance to Save Energy**

**Building Codes Assistance Project**  
 1200-18th Street, NW, Suite 900  
 Washington, DC 20036  
 PHONE: 202-857-0666  
 EMAIL: [info@ase.org](mailto:info@ase.org)  
 WEBSITE: [www.ase.org](http://www.ase.org)  
 2004 Amount \$235,000 Duration: One year  
 To assist states in the review, adoption, and implementation of stringent building energy codes that reap high energy, economic, and air quality benefits.

**American Council for an Energy-Efficient Economy**

1001 Connecticut Avenue, NW, Suite 801  
 Washington, DC 20036  
 PHONE: 202-429-8873  
 EMAIL: [info@aceee.org](mailto:info@aceee.org)  
 WEBSITE: [www.aceee.org](http://www.aceee.org)  
 2004 Amount \$180,000 Duration: Two years  
 To analyze energy efficiency policies and programs that can address wasteful energy use in buildings and appliances and to assist in their design and implementation.

**American Council for an Energy-Efficient Economy**

**Appliance Standards Awareness Project**  
 1001 Connecticut Avenue, NW, Suite 801  
 Washington, DC 20036  
 PHONE: 202-429-8873  
 EMAIL: [info@aceee.org](mailto:info@aceee.org)  
 WEBSITE: [www.aceee.org](http://www.aceee.org)  
 2004 Amount \$510,000 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.

**Center for Public Interest Research, Inc.**

44 Winter Street, 4th Floor  
 Boston, MA 02108  
 PHONE: 617-292-4800  
 2004 Amount \$130,000 Duration: One year  
 To assist Northeast states interested in evaluating the energy, environmental, and economic benefits of local appliance and equipment efficiency standards.

**Environment Northeast**

8 Summer Street, P.O. Box 313  
 Rockport, ME 04856-0313  
 PHONE: 207-236-6470  
 EMAIL: [admin@env-ne.org](mailto:admin@env-ne.org)  
 WEBSITE: [www.env-ne.org](http://www.env-ne.org)  
 2004 Amount \$30,000 Duration: One year  
 To promote advanced building guidelines in Connecticut and Massachusetts.  
 2004 Amount \$15,000 Duration: One year  
 To assist Northeast states interested in evaluating the energy, environmental, and economic benefits of local appliance and equipment efficiency standards.

**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/](http://www.elpc.org/)  
 2004 Amount \$20,000 Duration: One year  
 To educate builders, consumers, and other stakeholders of the economic, energy, and air quality benefits of a statewide building energy code in Illinois.

**Midwest Energy Efficiency Alliance**

One East Erie, Suite 200  
 Chicago, IL 60611  
 PHONE: 312-587-8390  
 WEBSITE: [www.mwalliance.org](http://www.mwalliance.org)  
 2004 Amount \$20,000 Duration: One year  
 To continue promoting the economic and environmental benefits of residential building energy codes in Michigan.

**National Consumer Law Center, Inc.**

77 Summer Street, 10th Floor  
 Boston, MA 02110-1006  
 PHONE: 617-542-8010  
 EMAIL: [consumerlaw@nclc.org](mailto:consumerlaw@nclc.org)  
 WEBSITE: [www.NCLC.org/](http://www.NCLC.org/)  
 2004 Amount \$3,500 Duration: Nine months  
 To assist Northeast states interested in evaluating the energy, environmental, and economic benefits of local appliance and equipment efficiency standards.

**Natural Resources Defense Council, Inc.**

40 West 20th Street  
 New York, NY 10011  
 PHONE: 212-727-2700  
 EMAIL: [nrdcinfo@nrdc.org](mailto:nrdcinfo@nrdc.org)  
 WEBSITE: [www.nrdc.org](http://www.nrdc.org)  
 2004 Amount \$40,000 Duration: One year  
 To assist Northeast states interested in evaluating the energy, environmental, and economic benefits of local appliance and equipment efficiency standards.  
 2004 Amount \$20,000 Duration: One year  
 To promote advanced building guidelines in New York.  
 2004 Amount \$150,000 Duration: Two years  
 To conduct technical and economic analyses on new energy efficiency initiatives for buildings and equipment and to assist in their design and implementation.

**New Buildings Institute, Inc.**

142 East Jewett Boulevard, P.O. Box 653  
 White Salmon, WA 98672  
 PHONE: 509-493-4468  
 WEBSITE: [www.newbuildings.org](http://www.newbuildings.org)  
 2004 Amount \$40,000 Duration: One year  
 To formalize approaches and tools for building practitioners that improve reliance on daylighting and other design advances and raise energy efficiency in buildings.

**Northeast Energy Efficiency Partnerships, Inc.**

5 Militia Drive  
 Lexington, MA 02421  
 PHONE: 781-860-9177  
 WEBSITE: [www.neep.org](http://www.neep.org)  
 2004 Amount \$32,000 Duration: One year  
 To assist Northeast states interested in evaluating the energy, environmental, and economic benefits of local appliance and equipment efficiency standards.

### Northwest Energy Efficiency Council

157 Yesler Way, Suite 409

Seattle, WA 98104

PHONE: 206-292-5592

WEBSITE: [www.neec.net](http://www.neec.net)

2004 Amount \$40,000 Duration: One year

To conduct outreach on the economic, energy, and environmental benefits of local appliance efficiency requirements in Washington.

### Southwest Energy Efficiency Project

2260 Baseline Road, Suite 212

Boulder, CO 80302-7740

PHONE: 303-447-0078

WEBSITE: [www.swenergy.org](http://www.swenergy.org)

2004 Amount \$19,500 Duration: One year

To promote the energy, economic, and environmental benefits of state appliance efficiency standards in Nevada and Arizona.

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.

## POWER

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.

**Alliance for Affordable Energy**

338 Baronne Street, Suite 200  
New Orleans, LA 70112  
PHONE: 504-525-0778  
WEBSITE: [www.gnofn.org/~all4nrg/](http://www.gnofn.org/~all4nrg/)  
2004 Amount \$25,000 Duration: One year  
To recommend design of a parallel public benefit fund for the State of Louisiana.

**American Corn Growers Foundation**

1730 M Street, NW, Suite 911  
Washington, DC 20036  
PHONE: 202-835-0023  
EMAIL: [info@acgf.org](mailto:info@acgf.org)  
WEBSITE: [www.acgf.org](http://www.acgf.org)  
2004 Amount \$75,000 Duration: One year  
To develop renewable energy advocacy programs within mainstream farm organizations.

**American Council for an Energy-Efficient Economy**

1001 Connecticut Avenue, NW, Suite 801  
Washington, DC 20036  
PHONE: 202-429-8873  
EMAIL: [info@aceee.org](mailto:info@aceee.org)  
WEBSITE: [www.aceee.org](http://www.aceee.org)  
2004 Amount \$160,000 Duration: Two years  
To promote energy efficiency in the electric utility and natural gas industries and to serve as technical resource for the clean energy advocate community.

**Center for Energy Efficiency and Renewable Technologies**

1100 11th Street, Suite 311  
Sacramento, CA 95814  
PHONE: 916-442-7785  
EMAIL: [info@ceert.org](mailto:info@ceert.org)  
WEBSITE: [www.ceert.org](http://www.ceert.org)  
2004 Amount \$50,000 Duration: One year  
To support renewable energy transmission in the West and the Northwest, and to explore long-term opportunities for large scale wind development.  
2004 Amount \$40,000 Duration: One year  
To support technical analysis for the renewable portfolio standard rulemaking at the California utility commission, to promote higher renewables standards, and to explore policies to reduce carbon emissions from California's electric system.  
2004 Amount \$300,000 Duration: Two years  
To support implementation of California's renewable portfolio standard, outreach to publicly-owned utilities, and transmission planning.

**Center for Rural Affairs**

145 Main Street, P.O. Box 136  
Lyons, NE 68038  
PHONE: 402-687-2100  
WEBSITE: [www.cfra.org](http://www.cfra.org)  
2004 Amount \$45,000 Duration: One year  
To educate the public and policymakers on the economic benefits of wind energy development in rural areas.

**Citizens for Pennsylvania's Future**

610 North Third Street  
Harrisburg, PA 17101  
PHONE: 717-214-7920  
EMAIL: [info@pennfuture.org](mailto:info@pennfuture.org)  
WEBSITE: [www.pennfuture.org](http://www.pennfuture.org)  
2004 Amount \$12,000 Duration: One year  
To support the Cool Pennsylvania campaign and lay the groundwork for global warming policies in Pennsylvania.

**Clean Air Task Force, Inc.**

*c/o Grants Management Associates*  
18 Tremont Street, Suite 530  
Boston, MA 02108  
PHONE: 617-292-0234  
WEBSITE: [www.catf.us](http://www.catf.us)  
2004 Amount \$35,000 Duration: 16 months  
To educate policy makers, the media and the public about the economic, environmental, and health risks of building and expanding conventional power plants in the West.

**Clean Wisconsin, Inc.**

122 State Street, Suite 200  
Madison, WI 53703  
PHONE: 608-251-7020  
WEBSITE: [www.cleanwisconsin.org](http://www.cleanwisconsin.org)  
2004 Amount \$40,000 Duration: One year  
To promote state and utility policies that will expand energy efficiency in Wisconsin.

**Climate Solutions**

610 E. 4th Avenue  
Olympia, WA 98501  
PHONE: 360-352-1763  
EMAIL: [info@climatesolutions.org](mailto:info@climatesolutions.org)  
WEBSITE: [www.climatesolutions.org](http://www.climatesolutions.org)  
2004 Amount \$25,000 Duration: 16 months  
To build rural and agricultural support for renewable energy development in the Northwest.

**Colorado Coalition for New Energy Technologies**

7725 Malamute Trail  
Evergreen, CO 80439  
PHONE: 303-679-9331  
2004 Amount \$20,000 Duration: 16 months  
To organize business support for renewable energy in the Intermountain West.

### 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  
2004 Amount \$55,000 Duration: One year  
To assist with efforts 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  
2004 Amount \$35,000 Duration: One year  
To work on the implementation of the Massachusetts renewable energy standard.

### Dakota Resource Council

113 First Street West  
Dickinson, ND 58601  
PHONE: 701-483-2851  
EMAIL: drc@dickinson.ctctel.com  
WEBSITE: www.drcinfo.com  
2004 Amount \$75,000 Duration: One year  
To promote wind power policies and project development in North Dakota.

### Environment California Research and Policy Center

3435 Wilshire Boulevard, #385  
Los Angeles, CA 90010  
PHONE: 916-446-8062  
2004 Amount \$50,000 Duration: One year  
To encourage the Los Angeles Department of Water and Power to use more renewable energy, and to develop policy ideas to get more California homes to use solar power.

### Environment Northeast

8 Summer Street, P.O. Box 313  
Rockport, ME 04856-0313  
PHONE: 207-236-6470  
EMAIL: admin@env-ne.org  
WEBSITE: www.env-ne.org  
2004 Amount \$25,000 Duration: One year  
To advance energy efficiency and renewable energy in Connecticut.

### Environmental Advocates of New York, Inc.

353 Hamilton Street  
Albany, NY 12210  
PHONE: 518-462-5526  
WEBSITE: www.eany.org  
2004 Amount \$20,000 Duration: One year  
To help implement a renewable portfolio standard in New York.

### Environmental Defense, Incorporated

257 Park Avenue South  
New York, NY 10010  
PHONE: 303-440-7200  
WEBSITE: www.edf.org  
2004 Amount \$20,000 Duration: 17 months  
To educate policy makers, the media and the public about the economic, environmental, and health risks of building and expanding conventional power plants in the West.  
2004 Amount \$100,000 Duration: One year  
To increase renewable energy and energy efficiency contributions in Texas.

### 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/  
2004 Amount \$600,000 Duration: Two years  
To promote renewable energy and energy efficiency policies in the Midwest.

### Front Range Economic Strategy Center

10 Lakeside Lane, Suite 1-B  
Denver, CO 80212  
PHONE: 303-477-6111 x14  
2004 Amount \$10,000 Duration: One year  
To establish a renewable portfolio standard in Colorado.

### Global Green USA

2218 Main Street, 2nd Floor  
Santa Monica, CA 90405  
PHONE: 310-581-2700  
EMAIL: ggusa@globalgreen.org  
WEBSITE: www.globalgreen.org  
2004 Amount \$20,000 Duration: One year  
To promote a renewable energy standard in Los Angeles, with an emphasis on solar power.

### Grand Canyon Trust

Arizona Clean Energy and Efficiency Coalition  
Route 4, P.O. Box 718  
Flagstaff, AZ 86001  
PHONE: 928-774-7488  
WEBSITE: www.grandcanyontrust.org  
2004 Amount \$30,000 Duration: One year  
To promote an increased role for energy efficiency and renewable energy in Arizona.

### Illinois PIRG Education Fund

180 West Washington, Suite 500  
Chicago, IL 60602  
PHONE: 312-364-0096  
EMAIL: ilpirg@aol.com  
2004 Amount \$40,000 Duration: One year  
To provide grassroots outreach and education to promote a renewable energy standard in Illinois.

### Institute for Energy and Environmental Research

6935 Laurel Avenue, Suite 201  
Takoma Park, MD 20912  
PHONE: 301-270-5500  
WEBSITE: www.ieer.org  
2004 Amount \$10,000 Duration: One year  
To study the integration of wind power into the New Mexico utility grid.

### Institute for Policy Studies

Chesapeake Climate Action Network  
733 15th NW, Suite 1020  
Washington, DC 20005  
PHONE: 202-234-9382  
2004 Amount \$20,000 Duration: Nine months  
To support research and outreach on the benefits of renewable energy in Maryland.

**Iowa Environmental Council**

711 East Locust Street  
Des Moines, IA 50309  
PHONE: 515-244-1194  
EMAIL: [iecmal@earthweshare.org](mailto:iecmal@earthweshare.org)  
WEBSITE: [www.earthweshare.org](http://www.earthweshare.org)  
2004 Amount \$80,000 Duration: One year  
To educate policy makers about the benefits of renewable energy and energy efficiency in Iowa.  
2004 Amount \$80,000 Duration: One year  
To formulate new policy strategies for Iowa, and to recruit more effective organizations and staff.

**Izaak Walton League of America**

1619 Dayton Avenue, Suite 202  
Saint Paul, MN 55104-6206  
PHONE: (651)649-1446  
WEBSITE: [www.iwla.org](http://www.iwla.org)  
2004 Amount \$330,000 Duration: Two years  
To promote renewable energy, energy efficiency, and clean distributed generation in Minnesota.

**Latino Issues Forum**

160 Pine Street, Suite 700  
San Francisco, CA 94111  
PHONE: 415-284-7220  
EMAIL: [lifcentral@lif.org](mailto:lifcentral@lif.org)  
WEBSITE: [www.lif.org](http://www.lif.org)  
2004 Amount \$45,000 Duration: One year  
To continue to safeguard resources for California's low-income energy efficiency programs and to inform other community issues groups in the Southwest about the economic, energy, and environmental benefits of energy efficiency policies.

**Maryland Public Interest Research Foundation**

3121 Saint Paul Street, Suite 26  
Baltimore, MD 21218  
PHONE: 410-467-0439  
WEBSITE: [www.pirg.org/marypirg/](http://www.pirg.org/marypirg/)  
2004 Amount \$20,000 Duration: One year  
To support research and outreach on the benefits of renewable energy in Maryland.

**Minnesota Center for Environmental Advocacy**

26 East Exchange Street, Suite 206  
St. Paul, MN 55101  
PHONE: 651-223-5969  
WEBSITE: [www.mncenter.org](http://www.mncenter.org)  
2004 Amount \$10,000 Duration: Four months  
To advocate that Minnesota utilities must procure new renewables generation under the Minnesota Renewable Energy Objective.

**Minnesota Center for Environmental Advocacy**

26 East Exchange Street, Suite 206  
St. Paul, MN 55101  
PHONE: 651-223-5969  
WEBSITE: [www.mncenter.org](http://www.mncenter.org)  
2004 Amount \$35,000 Duration: Six months  
To support legal advocacy in the implementation of the Minnesota Renewable Energy Obligation, and in transmission planning around renewable energy.

**Minnesota Project, Inc.**

1885 University Avenue, Suite 315  
St. Paul, MN 55104  
PHONE: 651-645-6159  
2004 Amount \$32,500 Duration: One year  
To support the establishment of a Midwestern network of groups promoting agricultural energy sources, like wind and bioenergy.

**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](http://www.me3.org)  
2004 Amount \$550,000 Duration: Two years  
To promote renewable energy and energy efficiency policies in Minnesota.

**National Consumer Law Center, Inc.**

77 Summer Street, 10th Floor  
Boston, MA 02110-1006  
PHONE: 617-542-8010  
EMAIL: [consumerlaw@nclc.org](mailto:consumerlaw@nclc.org)  
WEBSITE: [www.NCLC.org/](http://www.NCLC.org/)  
2004 Amount \$70,000 Duration: One year  
To support the Low-Income Energy Project, which provides advocacy and informational services to advance energy efficiency and affordability programs for low-income households.

**Natural Resources Defense Council, Inc.**

40 West 20th Street  
New York, NY 10011  
PHONE: 212-727-2700  
EMAIL: [nrdcinfo@nrdc.org](mailto:nrdcinfo@nrdc.org)  
WEBSITE: [www.nrdc.org](http://www.nrdc.org)  
2004 Amount \$750,000 Duration: Two years  
To promote energy efficiency and renewable energy through good portfolio management practices at electric and natural gas utilities in 10 states.  
2004 Amount \$60,000 Duration: One year  
To support the Project for a Sustainable FERC, which promotes transmission policies favoring energy efficiency and renewable energy at the Federal Energy Regulatory Commission.  
2004 Amount \$50,000 Duration: One year  
To set emission standards for distributed generation in key states, creating a de facto national standard.

**Nebraska Farmers Union Foundation, Inc.**

1305 Plum, P.O. Box 22667  
Lincoln, NE 68502  
PHONE: 402-476-8815  
2004 Amount \$25,000 Duration: One year  
To promote state and publicly-owned utility policies that will expand wind energy in Nebraska and to set precedents that may be followed by others.



**NW Energy Coalition**

219 1st Avenue South, Suite 100  
Seattle, WA 98104-2599  
PHONE: 206-621-0094  
EMAIL: [nwec@nwenergy.org](mailto:nwec@nwenergy.org)  
WEBSITE: [www.nwenergy.org](http://www.nwenergy.org)  
2004 Amount \$200,000 Duration: One year  
To promote clean energy policy in the Northwest states.

**Pace University**

**Pace Energy Project**  
78 North Broadway  
White Plains, NY 10603  
PHONE: 914-422-4227  
2004 Amount \$50,000 Duration: One year  
To develop and establish energy efficiency programs for natural gas consumers in the state of New York and contribute to development of material to be used in other states.

**Public Citizen Foundation, Inc.**

**Public Citizen Texas**  
215 Pennsylvania Avenue, SE  
Washington, DC 20009-1001  
PHONE: 202-546-4996  
WEBSITE: [www.citizen.org](http://www.citizen.org)  
2004 Amount \$45,000 Duration: 16 months  
To work with Texas SEED and Environmental Defense, Inc., to increase renewable energy and energy efficiency contributions in Texas.  
2004 Amount \$50,000 Duration: One year  
To increase renewable energy and energy efficiency contributions in Texas.  
2004 Amount \$20,000 Duration: Three months  
To advocate for expanded renewable energy development in Texas.  
2004 Amount \$15,000 Duration: Six months  
To set emission standards for distributed generation in key states, creating a de facto national standard.  
2004 Amount \$30,000 Duration: One year  
For the Solar Austin and Solar San Antonio campaigns, to promote the use of renewable energy by public utilities in Texas.

**Public Interest Fund of the Citizens Utility Board**

16 N. Carroll Street, Suite 720  
Madison, WI 53703  
PHONE: 608-251-3322  
EMAIL: [staff@wiscub.org](mailto:staff@wiscub.org)  
WEBSITE: [www.wiscub.org](http://www.wiscub.org)  
2004 Amount \$90,000 Duration: One year  
To promote clean energy policies in Wisconsin.

**Public Utility Law Project of New York, Inc.**

90 State Street #601  
Albany, NY 12207  
PHONE: 518-449-3375  
EMAIL: [info@pulp.tc](mailto:info@pulp.tc)  
WEBSITE: [www.pulp.tc](http://www.pulp.tc)  
2004 Amount \$25,000 Duration: One year  
To continue support of the Low-Income Energy Project, which provides advocacy and informational services to advance energy efficiency and affordability programs for low-income households.

**Regulatory Assistance Project**

177 Water Street  
Gardiner, ME 04345  
PHONE: 207-582-1135  
EMAIL: [rapmaine@rapmaine.org](mailto:rapmaine@rapmaine.org)  
WEBSITE: [www.rapmaine.org](http://www.rapmaine.org)  
2004 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.  
2004 Amount \$50,000 Duration: One year  
To set emission standards for distributed generation in key states, creating a de facto national standard.

**Renewable Energy Policy Project**

1612 K Street NW, Suite 202  
Washington, DC 20006  
PHONE: 202-293-2898  
WEBSITE: [www.repp.org](http://www.repp.org)  
2004 Amount \$20,000 Duration: Six months  
To support an analysis of wind turbine manufacturing.

**Renewable Northwest Project**

917 SW Oak Street, Suite 303  
Portland, OR 97205  
PHONE: 503-223-4544  
EMAIL: [renewables@rnp.org](mailto:renewables@rnp.org)  
WEBSITE: [www.rnp.org](http://www.rnp.org)  
2004 Amount \$25,000 Duration: One year  
To support development of an energy efficiency and renewable energy portfolio standard in Washington.

**Southwest Energy Efficiency Project**

2260 Baseline Road, Suite 212  
Boulder, CO 80302-7740  
PHONE: 303-447-0078  
WEBSITE: [www.swenergy.org](http://www.swenergy.org)  
2004 Amount \$75,000 Duration: 17 months  
To develop and assist in implementation of state and utility energy efficiency and demand-side management programs.  
2004 Amount \$30,000 Duration: One year  
To work with the Nevada Renewable Energy and Energy Efficiency Task Force to develop a state plan for energy efficiency.

**Southwest Research and Information Center**

**Coalition for Clean Affordable Energy**  
105 Stanford S.E., P.O. Box 4524  
Albuquerque, NM 87106  
PHONE: 505-262-1862  
2004 Amount \$25,000 Duration: 16 months  
To support implementation of renewable energy policy in New Mexico.  
2004 Amount \$60,000 Duration: One year  
To defend the recently established renewable portfolio standard and support clean energy policies in New Mexico.

**Union of Concerned Scientists, Inc.**

Two Brattle Square  
Cambridge, MA 02238-9105  
PHONE: 617-547-5552  
EMAIL: [ucs@ucsusa.org](mailto:ucs@ucsusa.org)  
WEBSITE: [www.ucsusa.org/transportation.html](http://www.ucsusa.org/transportation.html)  
2004 Amount \$600,000 Duration: Two years  
To promote renewable energy policy at the federal and state levels, with a focus on the Midwest, the Northeast, and California.

### Utah Clean Energy Alliance, Inc.

917 Second Avenue

Salt Lake City, UT 84103

PHONE: 801-673-7156

2004 Amount \$20,000 Duration: 16 months

To advocate for renewable energy development in Utah.

### Western Resource Advocates

2260 Baseline Road, Suite 200

Boulder, CO 80302-7740

PHONE: 303-444-1188

WEBSITE: [www.westernresourceadvocates.org](http://www.westernresourceadvocates.org)

2004 Amount \$20,000 Duration: 16 months

To educate policy-makers, the media, and public about the economic, environmental, and health risks of building and expanding new conventional power plants in the West.

2004 Amount \$40,000 Duration: 16 months

To educate policy makers, the media and the public about the economic, environmental, and health risks of building and expanding conventional power plants in the West.

2004 Amount \$60,000 Duration: 16 months

To assist organizations in the Interior West to educate policy makers, the media and the public about the economic, environmental, and health risks of building and expanding conventional power plants.

2004 Amount \$50,000 Duration: One year

To support renewable energy transmission in the West and the Northwest, and to explore long-term opportunities for large-scale wind development.

2004 Amount \$300,000 Duration: Two years

To support education and advocacy in favor of clean energy policies in the Interior West.

2004 Amount \$25,000 Duration: One year

To support research and outreach on the benefits of a renewable portfolio standard for Colorado.

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.

Vehicles are responsible for nearly one-third of total U.S. energy use and greenhouse gas (GHG) emissions, and over two-thirds of U.S. oil consumption. Translating to a global scale, the U.S. transportation sector produces about eight percent of world GHGs and accounts for 18 percent of world oil demand each year. Light-duty passenger vehicles—cars, pick-ups, minivans, SUVs—are the biggest piece of the problem, producing about 60 percent of U.S. transportation GHGs. In fact, emissions from our light-duty vehicles outstrip total GHGs from all other countries except for China, Japan, and Russia.

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, fuel economy has worsened: U.S. EPA reports that average new-vehicle fuel economy has fallen back to what it was over 20 years ago.

## TRANSPORTATION

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 vehicle emissions; and
- promote similar state-level policies outside of California.

**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  
2004 Amount \$25,000 Duration: One year  
To promote higher national fuel economy standards and other policies and programs that improve vehicle fuel efficiency.

**American Council for an Energy-Efficient Economy**

1001 Connecticut Avenue, NW, Suite 801  
Washington, DC 20036  
PHONE: 734-764-4459  
2004 Amount \$30,000 Duration: One year  
To analyze relationships between vehicle size, weight, design, and safety.

**American Lung Association of California**

424 Pendleton Way  
Oakland, CA 94621  
PHONE: 510-638-5864  
WEBSITE: www.californialung.org  
2004 Amount \$120,000 Duration: One year  
To advocate for policies in California that support advanced vehicles and reduce greenhouse gas emissions from motor vehicles.

**American Lung Association of New York State, Inc.**

3 Winners Circle, Suite 300  
Albany, NY 12205  
PHONE: 518-453-0172  
WEBSITE: www.lungusa.org/newyork  
2004 Amount \$75,000 Duration: One year  
To support New York's implementation of the California motor vehicle program.

**Bluewater Network**

311 California Street, Suite 510  
San Francisco, CA 94104  
PHONE: 415-544-0790  
WEBSITE: www.bluewaternet.org  
2004 Amount \$50,000 Duration: One year  
To support California's new greenhouse gas standards for vehicles.

**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  
2004 Amount \$25,000 Duration: One year  
To increase demand for efficient hybrid electric vehicles and communicate the depth of unmet demand to automakers and the media.

**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  
2004 Amount \$67,000 Duration: One year  
To support the public education campaign around California's greenhouse gas rulemaking.

**Center for Public Interest Research, Inc.**

44 Winter Street, 4th Floor  
Boston, MA 02108  
PHONE: 617-292-4800  
2004 Amount \$100,000 Duration: One year  
To promote adoption of the California Motor Vehicle Program in select states.

**Center for Public Interest Research, Inc. State PIRGs**

29 Temple Place  
Boston, MA 02111  
PHONE: 617-292-4800  
2004 Amount \$125,000 Duration: One year  
To support implementation of the California Motor Vehicle Program in various states.

**Ceres, Inc.**

**Coalition for Environmentally Responsible Economics**  
99 Chauncy Street  
Boston, MA 02111-1703  
PHONE: 617-247-0700  
WEBSITE: www.ceres.org  
2004 Amount \$40,000 Duration: One year  
To analyze implications of greenhouse gas control programs for global auto companies.

**Coalition for Clean Air**

1100 11th Street, Suite 323  
Sacramento, CA 95814  
PHONE: 916-340-2608  
2004 Amount \$75,000 Duration: One year  
To advocate for policies in California that support advanced vehicles and reduce greenhouse gas emissions from motor vehicles.

**Consumer Federation of America**

1424 16th Street, N.W., Suite 604  
Washington, DC 20036  
PHONE: 202-387-6121  
WEBSITE: www.consumerfed.org  
2004 Amount \$25,000 Duration: Six months  
To develop a consumer-based initiative to improve vehicle efficiency.

**Ecology Center, Inc.**

117 North Division  
Ann Arbor, MI 48104  
PHONE: 734-761-3186  
2004 Amount \$65,000 Duration: One year  
To promote advanced vehicle technologies in partnership with the United Auto Workers.

**Environment California Research and Policy Center**

1107 9th Street, Suite 601  
Sacramento, CA 95814  
PHONE: 916-446-8062  
EMAIL: info@environmentcalifornia.org  
WEBSITE: www.environmentcalifornia.org  
2004 Amount \$70,000 Duration: One year  
To educate citizens about California's program to reduce greenhouse gases from motor 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  
2004 Amount \$15,000 Duration: One year  
To support the Clean Bus Network.

**Environmental Defense, Incorporated**

257 Park Avenue South, 17th Floor  
 New York, NY 10010  
 PHONE: 212-505-2100  
 EMAIL: edf@edf.org  
 WEBSITE: www.edf.org  
 2004 Amount \$350,000 Duration: One year  
 To support the work of Environmental Defense's Clean Car Campaign nationally and in select states.

**Maryland Public Interest Research Foundation**

3121 Saint Paul Street, Suite 26  
 Baltimore, MD 21218  
 PHONE: 410-467-0439  
 WEBSITE: www.pirg.org/marypirg/  
 2004 Amount \$20,000 Duration: Five months  
 To build public support for clean vehicles in Maryland.

**Mass PIRG Education Fund, Inc.**

44 Winter Street  
 Boston, MA 02108  
 PHONE: 617-292-4800  
 WEBSITE: www.masspirg.org  
 2004 Amount \$30,000 Duration: One year  
 To support implementation of the California Motor Vehicle Program in Massachusetts.

**Michigan Environmental Council**

119 Pere Marquette Drive, Suite 2-A  
 Lansing, MI 48912-1270  
 PHONE: 517-487-9539  
 EMAIL: mec@voyager.net  
 WEBSITE: www.mecprotects.org  
 2004 Amount \$40,000 Duration: One year  
 To explore areas of common interest with the United Auto Workers.

**National Environmental Trust**

1200 18th Street, NW, Suite 500  
 Washington, DC 20036  
 PHONE: 202-887-8800  
 EMAIL: netinfor@environet.org  
 WEBSITE: www.environet.org/  
 2004 Amount \$65,000 Duration: Three months  
 To support an analysis of oil price scenarios and auto industry employment.  
 2004 Amount \$100,000 Duration: One year  
 To continue strategic media outreach on federal fuel economy and energy security policies.

**Natural Resources Council of Maine**

3 Wade Street  
 Augusta, ME 04330-6351  
 PHONE: 207-622-3101  
 EMAIL: nrcm@nrcm.org  
 WEBSITE: www.maineenvironment.org  
 2004 Amount \$30,000 Duration: One year  
 To support implementation of the California Motor Vehicle Program 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  
 2004 Amount \$450,000 Duration: Two years  
 To promote national and state policies which reduce global warming pollution from vehicles.

**Northeast States for Coordinated Air Use Management, Inc.**

101 Merrimac Street  
 Boston, MA 02114  
 PHONE: 617-259-2000  
 WEBSITE: www.nescaum.org  
 2004 Amount \$150,000 Duration: One year  
 To support use of the California motor vehicle program and other measures to promote advanced vehicles and reduce global warming pollution in the Northeast.

**PCL Foundation**

921 11th Street, Suite 300  
 Sacramento, CA 95814  
 PHONE: 916-444-8726  
 WEBSITE: www.pcl.org  
 2004 Amount \$15,000 Duration: One year  
 To support California's efforts 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  
 2004 Amount \$110,000 Duration: One year  
 To educate the public and policymakers on relationships between vehicle size, weight, design, and safety.

**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  
 2004 Amount \$55,000 Duration: One year  
 To support implementation of the California Motor Vehicle Program in New Jersey.

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.

States are taking the lead on defining U.S. climate policies. For example:

- The Northeast states are developing a carbon cap-and-trade program for the region's power plants.
- California has adopted regulations to reduce greenhouse gases from motor vehicles, and multiple other states are set to follow.
- Massachusetts and New Hampshire have passed "four-pollutant" regulations that mandate carbon reductions from their utilities.
  - A growing number of states, including Maine, Connecticut, New York, Massachusetts, and Washington, have set ambitious GHG reduction goals, developed climate action plans, and are embarking on new low-carbon policy.
  - Governors in New England and on the West Coast have joined forces to find regional solutions to reduce carbon.

## CLIMATE

These activities will shape the U.S. response to climate change. States are the laboratories where climate policy experiments are being carried out. Furthermore, activity in the states will build the political base necessary to secure 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;
- Financial mechanisms like incentives or carbon taxes; and
- Other direct controls to reduce global warming pollution.

### 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  
2004 Amount \$35,000 Duration: Seven months  
To incorporate energy efficiency information into the Regional Greenhouse Gas Initiative cap-and-trade analysis.

### Americans for Equitable Climate Solutions

Climate Policy Center  
1730 Rhode Island Avenue, NW, Suite 707  
Washington, DC 20036  
PHONE: 202-463-8934  
WEBSITE: www.aecs-inc.org  
2004 Amount \$125,000 Duration: One year  
To conduct research and outreach on innovative national proposals to cap carbon emissions.

### Center for Clean Air Policy

750 First Street, NE, Suite 940  
Washington, DC 20002  
PHONE: 202-408-9260  
WEBSITE: www.ccap.org  
2004 Amount \$175,000 Duration: One year  
To support Center for Clean Air Policy's work with states on climate strategies.

### Center for Public Interest Research, Inc.

44 Winter Street, 4th Floor  
Boston, MA 02108  
PHONE: 617-292-4800  
2004 Amount \$150,000 Duration: One year  
To support the New England Climate Action Project, a coalition working on regional policy solutions to climate change.

### Center for Resource Solutions

Presidio Building 97  
P.O. Box 29512  
San Francisco, CA 94129  
PHONE: 415-561-2100  
WEBSITE: www.resource-solutions.org  
2004 Amount \$17,500 Duration: Nine months  
To work on standard carbon reporting guidelines for tradable renewable energy certificates.  
2004 Amount \$35,000 Duration: Six months  
To develop policy options to incorporate renewable energy into carbon cap-and-trade programs.

### Citizens for Pennsylvania's Future

610 North Third Street  
Harrisburg, PA 17101  
PHONE: 717-214-7920  
EMAIL: info@pennfuture.org  
2004 Amount \$36,000 Duration: One year  
To support the Cool Pennsylvania campaign and lay the groundwork for global warming policies 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  
2004 Amount \$70,000 Duration: One year  
To build business support for climate change policies in the Northeast.

### Climate Neutral Network

P.O. Box 1750  
Colfax, CA 95713  
PHONE: 503-697-2798  
WEBSITE: www.climateneutral.com  
2004 Amount \$30,000 Duration: Six months  
To support Climate Neutral certifications of companies and events.

### Conservation Law Foundation, Inc.

62 Summer Street  
Boston, MA 02110-1008  
PHONE: 617-350-0990  
EMAIL: issues@clf.org  
WEBSITE: www.clf.org  
2004 Amount \$120,000 Duration: One year  
To advocate for strong implementation of Massachusetts's four-pollutant regulations, and to engage public utility commissions in regional climate change activities.

### Ecoventure

California Interfaith Power & Light  
1904 Franklin Street, Suite 909  
Oakland, CA 94612  
PHONE: 510-444-4078  
2004 Amount \$20,000 Duration: Eight months  
To support the West Coast Governors' Global Warming Initiative.

### Environment Northeast

8 Summer Street, P.O. Box 313  
Rockport, ME 04856-0313  
PHONE: 860-246-7121  
WEBSITE: www.env-ne.org  
2004 Amount \$80,000 Duration: One year  
To help develop a climate change roadmap for New England, and to serve as a stakeholder to the Regional Greenhouse Gas Initiative.

### Environmental Advocates of New York, Inc.

353 Hamilton Street  
Albany, NY 12210  
PHONE: 518-462-5526  
WEBSITE: www.eany.org  
2004 Amount \$50,000 Duration: One year  
To build support for Regional Greenhouse Gas Initiative in New York.

### 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  
2004 Amount \$50,000 Duration: One year  
To educate federal policymakers about state and regional activities on global warming and recent global warming science.

### Harvard University Office For Sponsored Research

Center for Health and Global Environment  
Cambridge, MA 02138-3800  
PHONE: 617-495-5501  
2004 Amount \$50,000 Duration: One year  
To educate national policymakers on the links between climate change, extreme weather events, and the spread of infectious diseases.

### Michigan Environmental Council

119 Pere Marquette Drive, Suite 2-A  
Lansing, MI 48912-1270  
PHONE: 517-487-9539  
EMAIL: mec@voyager.net  
WEBSITE: www.mecprotects.org  
2004 Amount \$63,000 Duration: Ten months  
To support research on politically viable low-carbon policies.

**National Environmental Trust**

1200 18th Street, NW, Suite 500  
 Washington, DC 20036  
 PHONE: 202-887-8800  
 EMAIL: netinfor@environet.org  
 WEBSITE: www.environet.org/  
 2004 Amount \$50,000 Duration: 18 months  
 To promote media coverage of state and regional actions on global warming.

**Northeast States for Coordinated Air Use Management, Inc.**

101 Merrimac Street  
 Boston, MA 02114  
 PHONE: 617-259-2000  
 WEBSITE: www.nescaum.org  
 2004 Amount \$25,000 Duration: One year  
 To support the development of a mandatory cap-and-trade program to curb greenhouse gas emissions.

**Oregon Environmental Council**

222 NW Davis Street, Suite 309  
 Portland, OR 97209-3900  
 PHONE: 503-222-1963 x 102  
 EMAIL: oec@oeconline.org  
 WEBSITE: www.orcouncil.org/transportation.html  
 2004 Amount \$25,000 Duration: Eight months  
 To advocate for clean car standards in Oregon as part of the state's climate strategy.

**Pace University****Pace Energy Project**

78 North Broadway  
 White Plains, NY 10603  
 PHONE: 914-422-4227  
 2004 Amount \$30,000 Duration: One year  
 To support climate policy efforts in the Northeast.

**Pacific Forest Trust, Inc.**

416 Aviation Blvd., Suite A  
 Santa Rosa, CA 95403  
 PHONE: 707-578-9950  
 2004 Amount \$25,000 Duration: One year  
 To support the implementation of the forest sector protocol for the California Climate Action Registry, and to promote compatible forestry sequestration standards in other states.

**Public Citizen Foundation, Inc.**

1600 20th Street, NW  
 Washington, DC 20009-1001  
 PHONE: 202-546-4996  
 WEBSITE: www.citizen.org  
 2004 Amount \$37,500 Duration: One year  
 To make climate change an issue in the siting of new power plants 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  
 2004 Amount \$30,000 Duration: 18 months  
 To support climate policy efforts in the Northeast.

**Redefining Progress**

1904 Franklin Street, Sixth Floor  
 Oakland, CA 94612  
 PHONE: 510-444-3041  
 EMAIL: info@rprogress.org  
 WEBSITE: www.rprogress.org  
 2004 Amount \$75,000 Duration: One year  
 To support (1) research on politically viable low-carbon policies and (2) scenario work, in key states, on the local impacts of global warming.

**Regents of the University of Michigan**

UM-DRDA, 3003 South State Street,  
 1054 Wolverine Tower  
 Ann Arbor, MI 48109-1274  
 PHONE: 734-764-5500  
 EMAIL: UMresearch@umich.edu  
 WEBSITE: www.research.umich.edu  
 2004 Amount \$15,000 Duration: One year  
 To create a Michigan state greenhouse gas inventory.

**Resources for the Future, Inc.**

1616 P Street, NW  
 Washington, DC 20036  
 PHONE: 202-328-5000  
 EMAIL: info@rff.org  
 WEBSITE: www.rff.org  
 2004 Amount \$55,000 Duration: Six months  
 To analyze design options for the Northeast states' carbon cap-and-trade program.

**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  
 2004 Amount \$100,000 Duration: One year  
 To assist in the development of a state climate change plan to reduce global warming pollution in North Carolina.

**Tellus Institute**

11 Arlington Street  
 Boston, MA 02116-3411  
 PHONE: 617-266-5400  
 WEBSITE: www.tellus.org  
 2004 Amount \$25,000 Duration: Six months  
 To analyze carbon reduction policies for Puget Sound and the state of Washington.

**The Churches' Center for Theology and Public Policy**

4500 Massachusetts Avenue, NW  
 Washington, DC 20016-5690  
 PHONE: 202-885-8648  
 WEBSITE: www.cctpp.org  
 2004 Amount \$15,000 Duration: One year  
 To support the start-up of Greater Washington Interfaith Power and Light.

**The Climate Trust**

516 SE Morrison Street, Suite 300  
 Portland, OR 97214-2343  
 PHONE: 503-238-1915  
 EMAIL: info@climatetrust.org  
 WEBSITE: www.climatetrust.org  
 2004 Amount \$25,000 Duration: One year  
 To promote environmentally-sound standards for carbon offsets in state registries and carbon markets.

**Tides Center****The Regeneration Project**

1014 Torney Avenue  
 P.O. Box 29907  
 San Francisco, CA 94129-0907  
 PHONE: 415-561-6300  
 2004 Amount \$20,000 Duration: Six months  
 To support the West Coast Governors' Global Warming Initiative.



### Union of Concerned Scientists, Inc.

Two Brattle Square

Cambridge, MA 02238-9105

PHONE: 617-547-5552

EMAIL: [ucs@ucsusa.org](mailto:ucs@ucsusa.org)

WEBSITE: [www.ucsusa.org/transportation.html](http://www.ucsusa.org/transportation.html)

2004 Amount \$50,000 Duration: One year

To design and implement the Regional  
Greenhouse Gas Initiative carbon market  
in the Northeast.

### World Resources Institute

10 G Street, NE, Suite 800

Washington, DC 20002

PHONE: 202-729-7600

WEBSITE: [www.wri.org](http://www.wri.org)

2004 Amount \$40,000 Duration: Six months

To support the development of the Northeast's  
greenhouse gas registry and carbon trading  
system.

OTHER  
GRANTS

The Energy Foundation occasionally funds projects that cut across multiple sectors or that fill an important gap in the field.

Due to the limited funding for this type of work, we do not accept unsolicited proposals.

**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

2004 Amount \$125,000 Duration: One year

To conduct analysis and public outreach on national policy recommendations that will substantially improve the energy efficiency of buildings, industry, and power plants.

**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

2004 Amount \$160,000 Duration: Two years

To design, analyze, and promote policies and programs that can help improve energy efficiency in the nation's industrial facilities.

2004 Amount \$240,000 Duration: Two years

To analyze and promote national energy efficiency policies to increase electricity reliability, lower energy bills, improve energy independence, and reduce carbon emissions.

**Ceres, Inc.**

Coalition for Environmentally Responsible Economics

99 Chauncy Street

Boston, MA 02111-1703

PHONE: 617-247-0700

WEBSITE: www.ceres.org

2004 Amount \$86,000 Duration: One year

To build corporate and policymaker support for stringent state and national proposals that will reduce greenhouse gas emissions.

**Energy Independence Now Coalition**

2515 Wilshire Boulevard

Santa Monica, CA 90403

PHONE: 310-829-1229

WEBSITE: www.energyindependencenow.org

2004 Amount \$55,000 Duration: One year

To support development of a hydrogen-highways blueprint for the state of California.

**Harvard University****Office For Sponsored Research**

John F. Kennedy School of Government

Littauer Center

Cambridge, MA 02138-3800

PHONE: 617-495-5501

2004 Amount \$50,000 Duration: One year

To analyze and promote the most effective federal research and development strategies for technologies that will cut carbon emissions.

**Regents of the University of California, Berkeley**

Energy and Resources Group

336 Sproul Hall

Berkeley, CA 94720-5940

PHONE: 510-642-0120

WEBSITE: socrates.berkeley.edu/~erg/

2004 Amount \$100,000 Duration: One year

To support the Energy Resources Group for analysis and design of clean energy policies and as a training ground for energy experts.

**Sustainable Energy Coalition**

1612 K Street, NW, Suite 202A

Washington, DC 20006

PHONE: 202-293-2898

WEBSITE: www.sustainableenergy.org

2004 Amount \$25,000 Duration: One year

To coordinate communication between numerous public and private renewable energy, energy efficiency, and environmental organizations on energy policy news.

**Union of Concerned Scientists, Inc.**

P.O. Box 9105

Two Brattle Square

Cambridge, MA 02238-9105

PHONE: 617-547-5552

EMAIL: ucs@ucsusa.org

WEBSITE: www.ucsusa.org/transportation.html

2004 Amount \$100,000 Duration: 13 months

To study the impacts of climate change on California using the latest climate modeling.

**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

2004 Amount \$40,000 Duration: One year

To promote the economic and environmental benefits of clean energy subsidies in Midwestern states.

**World Resources Institute**

10 G Street, NE, Suite 800

Washington, DC 20002

PHONE: 202-729-7600

WEBSITE: www.wri.org

2004 Amount \$75,000 Duration: One year

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

## CONDENSED STATEMENTS OF FINANCIAL POSITION

AS OF DECEMBER 31, 2004 AND 2003

	2004	2003
<b>ASSETS</b>		
CASH AND CASH EQUIVALENTS	\$14,290,740	\$11,852,491
CONTRIBUTIONS RECEIVABLE—Net	7,437,616	23,427,367
PREPAID EXPENSES AND OTHER ASSETS	38,159	38,980
PROPERTY AND EQUIPMENT:		
Office furniture and equipment	539,284	446,791
Leasehold improvements	213,214	213,214
TOTAL	<u>752,498</u>	<u>660,005</u>
Less accumulated depreciation and amortization	(650,463)	(584,534)
Property and equipment—net	<u>102,035</u>	<u>75,471</u>
<b>TOTAL ASSETS</b>	<b><u>\$21,868,550</u></b>	<b><u>\$35,394,309</u></b>
<b>LIABILITIES AND NET ASSETS</b>		
LIABILITIES:		
Grants payable	\$3,527,000	\$3,130,000
Accounts payable and accrued expenses	428,574	513,606
TOTAL LIABILITIES	<u>3,955,574</u>	<u>3,643,606</u>
NET ASSETS:		
Unrestricted	3,746,823	1,973,636
Temporarily restricted	14,166,153	29,777,067
TOTAL NET ASSETS	<u>17,912,976</u>	<u>31,750,703</u>
<b>TOTAL LIABILITIES AND NET ASSETS</b>	<b><u>\$21,868,550</u></b>	<b><u>\$35,394,309</u></b>

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, 2004 AND 2003

	2004	2003
<b>CHANGES IN UNRESTRICTED NET ASSETS:</b>		
Support and revenues:		
Contributions	\$3,850,000	\$2,000,000
Interest income	88,016	1,641
Net assets released from restrictions	22,438,186	25,263,494
TOTAL	<u>26,376,202</u>	<u>27,265,135</u>
Expenses:		
Grants	17,976,463	19,823,559
Foundation-initiated projects	3,922,581	3,027,071
General and administrative	2,703,971	2,572,025
TOTAL	<u>24,603,015</u>	<u>25,422,655</u>
Increase in unrestricted net assets	<u>1,773,187</u>	<u>1,842,480</u>
<b>CHANGES IN TEMPORARILY RESTRICTED NET ASSETS:</b>		
Support and revenues:		
Contributions	6,790,249	18,186,876
Interest income	37,023	125,719
Net assets released from restrictions	(22,438,186)	(25,263,494)
Decrease in temporarily restricted net assets	(15,610,914)	(6,950,899)
DECREASE IN NET ASSETS	<u>(13,837,727)</u>	<u>(5,108,419)</u>
<b>NET ASSETS—Beginning of year</b>	<u><b>31,750,703</b></u>	<u><b>36,859,122</b></u>
<b>NET ASSETS—End of Year</b>	<u><u><b>\$17,912,976</b></u></u>	<u><u><b>\$31,750,703</b></u></u>

STATEMENTS OF CASH FLOWS  
AS OF DECEMBER 31, 2004 AND 2003

	2004	2003
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Decrease in net assets	\$(13,837,727)	\$(5,108,419)
Adjustments to reconcile decrease in net assets to net cash provided by (used in) operating activities:		
Depreciation and amortization	65,929	65,840
Changes in assets and liabilities:		
Contributions receivable	15,989,751	3,366,874
Prepaid expenses and other assets	821	(8,745)
Grants payable	397,000	(1,570,979)
Accounts payable and accrued expenses	(85,032)	(518,784)
Net cash provided by (used in) operating activities	<u>2,530,742</u>	<u>(3,774,213)</u>
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Purchases of property and equipment	(92,493)	(67,647)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	2,438,249	(3,841,860)
<b>CASH AND CASH EQUIVALENTS—Beginning of year</b>	<u><b>11,852,491</b></u>	<u><b>15,694,351</b></u>
<b>CASH AND CASH EQUIVALENTS—End of Year</b>	<u><u><b>\$14,290,740</b></u></u>	<u><u><b>\$11,852,491</b></u></u>

## 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 decisionmaker(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 twelve 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, Suite 1  
San Francisco, CA 94129  
PHONE: 415.561.6700  
FAX: 415.561.6709  
EMAIL: [energyfund@ef.org](mailto:energyfund@ef.org)  
WEBSITE: [www.ef.org](http://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](mailto:china@ef.org)  
WEBSITE: [www.efchina.org](http://www.efchina.org)

The Energy Foundation  
 1012 Torney Avenue, Suite 1  
 San Francisco, CA 94129  
 PHONE: 415.561.6700  
 FAX: 415.561.6709  
 EMAIL: energyfund@ef.org  
 WEBSITE: www.ef.org

Please complete and submit this form with your proposal and supporting documents. This form is available in .pdf format on our website.

Date of Application: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Organization Telephone: \_\_\_\_\_

Organization Fax: \_\_\_\_\_

Organization E-mail Address: \_\_\_\_\_

Website: \_\_\_\_\_

Date of Incorporation (Month/Year): \_\_\_\_\_

Tax Status:	<input type="checkbox"/> 501 (c) (3)	If you do not have 501(c)3 status, are you a project of another organization?
	<input type="checkbox"/> Other	If so, please name _____

Primary Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Direct Primary Telephone: \_\_\_\_\_

Direct Primary Fax: \_\_\_\_\_

Direct Primary Contact E-mail: \_\_\_\_\_

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: \_\_\_\_\_

Other proposals pending; with whom:

Sector (please check)

- Power
- Transportation
- Buildings
- Climate

BRIEFLY DESCRIBE YOUR PROJECT

BRIEFLY DESCRIBE THE MISSION AND ACTIVITIES OF YOUR ORGANIZATION

APPLICATION  
PROPOSAL  
SUMMARY

PLEASE HAVE YOUR CHIEF EXECUTIVE OFFICER  
OR CHIEF FINANCIAL OFFICER SIGN THIS FORM

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_



## ENERGY FOUNDATION BOARD OF DIRECTORS 2004

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**T h e E n e r g y F o u n d a t i o n**  
Toward a sustainable energy future

1012 Torney Avenue, Suite 1  
San Francisco, CA 94129  
PHONE: 415.561.6700  
FAX: 415.561.6709  
EMAIL: [energyfund@ef.org](mailto:energyfund@ef.org)  
WEBSITE: [www.ef.org](http://www.ef.org)

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](mailto:china@ef.org)  
WEBSITE: [www.efchina.org](http://www.efchina.org)

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and The David and Lucile Packard Foundation