



NRDC Partners with China on Energy Efficiency: A Win-Win Strategy for Clear Skies and Economic Growth

China has launched the most aggressive energy efficiency program in the world to reduce pollution and protect people's health. NRDC is working with key partners at the central and provincial level to help China achieve its ambitious energy efficiency goals, bringing our more than 35 years of experience to bear in shaping and transforming environmental policy. In fact, we already have an impressive list of recent successes, including China's first large-scale incentive program for installation of efficient technologies, which in just one year has saved 150 megawatts of coal-fired power at one-fourth of the cost.

Energy Efficiency Is a Proven Strategy Across the Globe

Energy efficiency is a proven strategy for reducing society's energy needs while driving down costs and pollution. In the United States, for example, federal appliance standards adopted under 1987 legislation drafted by NRDC will yield a net benefit by 2015 of almost \$50 billion, taking full account of compliance costs. California's energy efficiency programs have produced more than 12,000 megawatts of highly cost-effective savings since 1978, resulting in stable per capita electricity use while the state's economy has grown by 40 percent. And recent worldwide studies reveal that energy efficiency can cut anticipated growth in global energy needs by more than two-thirds over the next two decades at a net savings to society.

China's Aggressive Approach to Energy Efficiency

China recognizes that energy efficiency is the key to achieving sustainable economic development while reducing the heavy pollution and the serious health impacts of its growing energy demand. China's energy efficiency is far below the world average: In 2006, it used 15 percent of global energy consumption to achieve about 5.5 percent of worldwide GDP. The results are dire: China's factories and power plants emit more sulfur dioxide and mercury than any other country in the world, and could surpass the United States in carbon emissions as soon as 2007. China has launched the most aggressive energy efficiency campaign in the world, with the goal of reducing the nation's energy use per unit of GDP by 20 percent by 2010.



"We have developed a sound cooperative relationship with NRDC over the past few years. The persistent and effective work carried out by NRDC in Jiangsu in the fields of power demand side management, energy efficiency and emissions reduction has profound significance to Jiangsu's sustainable development. We look forward to continuing and enhancing our cooperation with NRDC."

THE GOVERNMENT OF
JIANGSU PROVINCE

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China is already on the path to success. China's top leaders have signed contracts with provincial governors and the heads of its 1,000 largest enterprises; their job performance will be tied to how well they curb energy usage. The country's latest five-year plan (2006-2010) also calls for full implementation of China's building efficiency standards, which NRDC helped to develop. These standards require energy savings of 50 percent for new buildings nationwide and up to 65 percent for buildings in four large municipalities (Beijing, Shanghai, Tianjin, and Chongqing). China's Ministry of Construction has determined that full compliance with these standards would save 420 million megawatt-hours and more than 800 million tons of carbon dioxide annually.

And China has already begun implementing tariffs to encourage industry to reduce exports of high-polluting, energy-consuming products and begin using more energy efficient equipment. China is now drafting extensive revisions to its decade-old Energy Conservation Law, as well as a new comprehensive Energy Law that will strengthen its ability to balance energy supply and demand in the most cost-effective way.



NRDC's Recent Successes in China on Energy Efficiency

NRDC's record of achievement in energy efficiency now spans three decades and at least three continents: We helped lead the effort to create the first energy-efficiency standards in the United States, China, and Russia. In China, we have been working with key partners at the central and provincial level to help China achieve its ambitious energy efficiency goals. Our successes in China to date include:

- Our team of experts helped Chongqing (a city of 30 million people) develop China's first energy standard for residential buildings, which became a model for two regional residential standards and a national commercial building code.
- China recently adopted, with strong NRDC involvement, a standard on lighting efficiency in commercial buildings. Within a decade, this standard should cut greenhouse gas emissions by roughly 60 million metric tons of carbon annually. Half of that savings is the direct and exclusive result of NRDC advocacy.
- Jiangsu, California's sister province, relied extensively on NRDC to design China's first large-scale incentive programs for installation of efficient technologies, which has become a model nationwide. Last year, this \$25 million initiative avoided 150 megawatts of coal-fired power at one-fourth of the cost.
- NRDC led a multiyear international effort to create harmonized, worldwide standards for improving the efficiency of power supplies, which have been adopted by China, the United States, and Australia. These efficiency standards will save more than 25 billion kilowatt-hours per year and prevent more than 15 million tons of CO₂ emissions each year.
- Through the China-U.S. Energy Efficiency Alliance, which NRDC helped create, we are partnering with China's National Development and Reform Commission to create an annual forum and ongoing dialogue that will bring together leading experts from around the world on energy efficiency from the government, business, and public sectors, and reduce barriers to implementation of energy efficient technologies.

