

Energy Efficiency and Conservation Block Grant (EECBG) competitive grant

Retrofit Ramp-Up program

Announcement of Retrofit Ramp-Up Program

On September 14th, 2009, the Department of Energy (DOE) released a request for information (RFI), announcing competitive grants totaling up to \$434.72 million through one funding opportunity announcement for the Retrofit Ramp-Up Program.

The DOE is specifically targeting these funds for a small number of high-profile, high-impact awards that will enable large-scale programs of ongoing energy-efficient retrofits on residential, commercial and public buildings in geographically focused areas.

You can view the official DOE announcement at <http://www.energy.gov/news/2009/8005.htm>

Objectives of the Retrofit Ramp-Up Program:

- Reduce fossil fuel emissions in an environmentally sustainable manner
- Reduce total energy use
- Improve energy efficiency in the building and transportation sectors
- Significantly improve efficiency within a large fraction of buildings by targeting neighborhoods or communities (i.e., "whole-neighborhood" retrofits)
- Serve as examples of comprehensive community-scale energy-efficiency strategies that can be replicated

To this end, the DOE is seeking feedback to the proposed topic areas and evaluation criteria for competitive awards for eligible entities. This is a request for information (RFI) and not a funding opportunity announcement (FOA)—it is an opportunity to show interest and share ideas under the planned FOA.

With the potential for your community to be awarded up to \$150 million in grant funding, shouldn't you have the best power-management company on your side?

Eaton Corporation, a \$15.4 billion diversified power-management company, has the solutions to enable your community to compete for this unprecedented market transformation opportunity.

With a long-standing history of engagement in the communities we serve across the U.S., Eaton has collaborated with governments, universities, utilities, electrical contractors, residential builders, technology providers, manufacturers and another nongovernmental organizations in delivering comprehensive energy solutions to both the transportation and built-environment sectors.

Eaton is uniquely positioned to differentiate your efforts to compete for this competitive grant. We would appreciate the opportunity to collaborate with your team in exploring the possibilities.

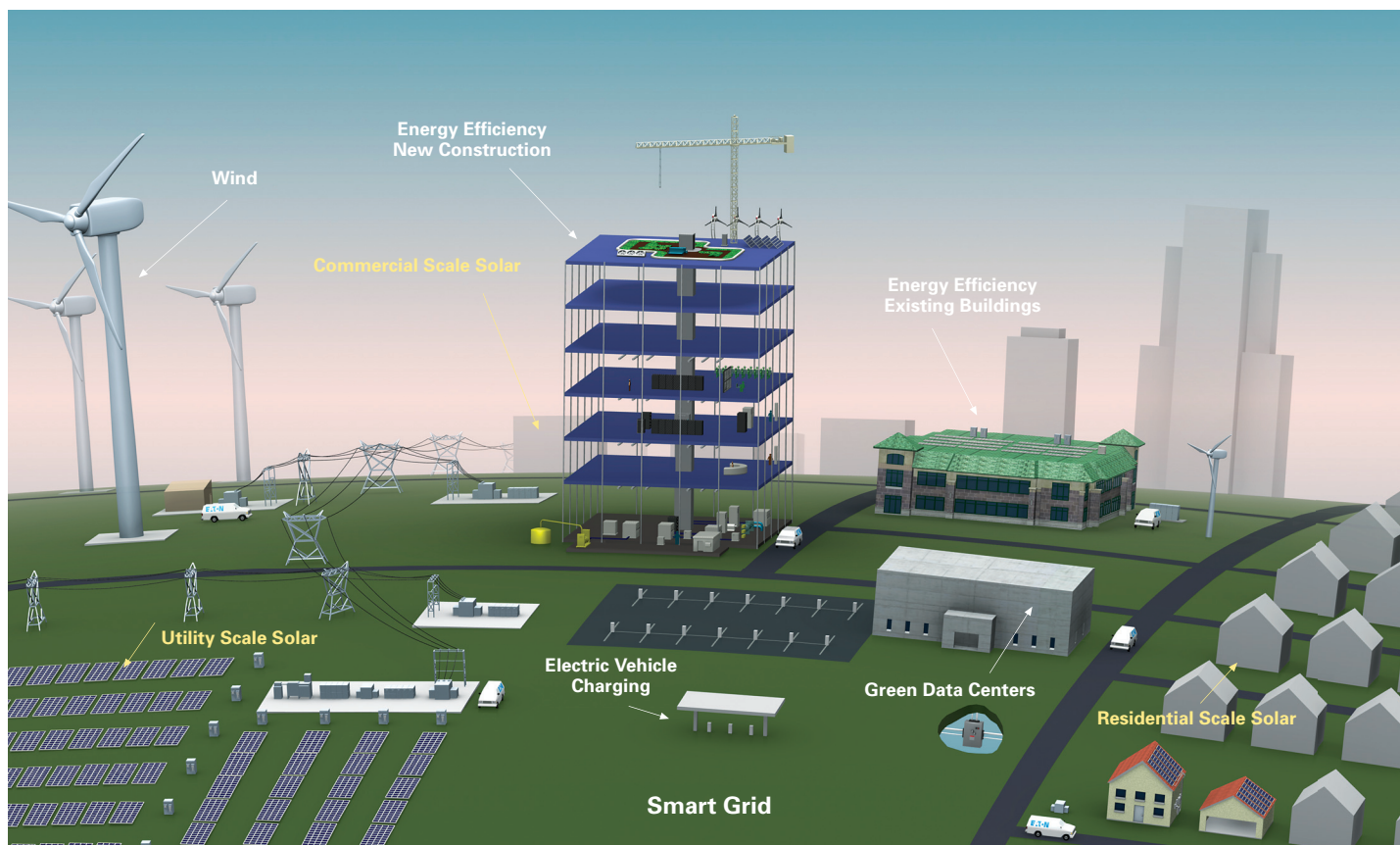
To learn more about how Eaton is contributing to this goal, visit www.eaton.com/recovery

For more information—and for an electronic version of this EECBG RFI Response—please visit www.eaton.com/EECBG

Responses to this RFI must be submitted by e-mail to EECBG.Competitive.RFIcomments@emcbc.doe.gov no later than 5:00 p.m. ET on September 28, 2009. Responses must be provided as a Microsoft® Word (.doc) attachment to the e-mail, of no more than three pages in length, 12-point font and one-inch margins. Only electronic responses will be accepted.



Powering Business Worldwide



Community-scale energy-efficiency strategies

Eaton Corporation can help you to optimize energy usage, as well as create a “sustainability culture” throughout your organization and community. Eaton achieves this through a comprehensive portfolio of services tailored for every stage of your energy program, including:

- Planning and advising
- Energy audits
- Training
- Turnkey project services

How can Eaton help in your RFI response?

The DOE is seeking your feedback on their plans for EECBG competitive grants. Following, Eaton has provided examples of strategies with which we have experienced success. Please consider using some or all of the potential following strategies as *your* ideas to share with the DOE in your RFI response. You can count on Eaton as a partner to assist you in further developing these ideas into real, executable solutions for your plan.

Building efficiency

Comprehensive metering

Plan: Implement a community-wide, comprehensive metering program that provides centralized energy monitoring and control capabilities to monitor and manage building energy consumption in real time for all electricity, gas and water use. This includes a community-wide “dashboard,” enabling residents and businesses to view ongoing results of their collective efforts.

Eaton’s solution: Since 2000, a large U.S. Army base in California has relied on an Eaton power metering system to track energy consumption and power quality in dozens of buildings across the base. The system provides around-the-clock information, as well as providing energy bills for private businesses (such as restaurants and movie theatres) operating on the base.

Energy audits and building efficiency improvements

Plan: In conjunction with the comprehensive metering program, conduct investment-grade energy audits on major energy users, and implement building energy-efficiency improvements that include daylight harvesting, building automation systems and highly efficient energy conversion systems, such as combined heat and power plants that capture energy waste streams.

Eaton’s solution: Eaton offers a comprehensive approach to making a facility more energy efficient. Our energy audits help consumers to spot opportunities for savings. Often, the biggest opportunities lie within the areas of a building that consume the most energy—tackling these areas first is a logical step. Building lighting is a big energy consumer. Eaton’s industry-leading Pow-R-Command™ lighting control system is one of our most effective solutions.

Training for electrical contractors via local community colleges

Plan: The ARRA will help governments operate more energy-efficient buildings, renovate power systems to help meet modern needs for clean, reliable power and lower the cost of government operations far into the future. Therefore, more experienced staff will need to learn how to operate and maintain modern equipment, while those new to the workforce will need to have a solid foundation in the basics of working with electrical power. In addition, all workers maintaining electrical systems will need to learn to work with new smart grid technologies.

Eaton's solution: Eaton's training is designed to stay on the cutting edge of technical, product and systems knowledge. At Eaton, we share our knowledge resources in a number of ways—from the traditional classroom to self-paced learning programs for light commercial and industrial facilities.

Making solar connections more efficient

Plan: While buildings are being retrofitted to consume less energy, develop a community solar farm or work with the local utilities to create a solar initiative that provides local incentives to residential owners, business owners and public building managers to supplement the energy that is still required with cleaner sources of energy.

Eaton's solution: Eaton was recently selected to be part of a team for an ARRA project to audit hundreds of locations nationally to determine the best way to implement solar solutions. Having expertise in analyzing, designing and installing large-scale electrical systems, Eaton used a phased approach to provide the complete solar power system from the photovoltaic (PV) panel, down to the connection to the electric grid.

Home awareness

Plan: Provide home awareness and energy-management systems that allow for two-way communication with the power grid and 10 percent of the residents. Additionally, implement a demand-response program, whereby all residents are automatically eligible to be compensated for curtailing power demand when called upon.

Eaton's solution: Eaton is the leader in the emerging category of home awareness with Home Heartbeat™. Home Heartbeat maintains awareness through a network of sensors placed around the home. Each sensor gives constant status updates via the Home Key™, cell phone text messages or via the Internet, allowing homeowners to monitor their homes at all times.

Transportation efficiency

Hybrid trucks for mass transit, refuse collection and other work trucks

Plan: Convert 10 percent of the community fleet (public sector and utilities) to hybrid trucks and include performance metrics in the community-wide dashboard.

Eaton's solution: Eaton's plug-in hybrid truck is estimated to deliver fuel economy improvements of up to 70 percent compared to a conventionally powered truck, with corresponding reductions in harmful emissions. The plug-in hybrid truck is the first of five "boom and bucket" trucks based on a Ford F-550 chassis that will be provided by Eaton, the Electric Power Research Institute (EPRI) and Ford to public and private utilities in the United States for use and evaluation.

Electric vehicle supply equipment (EVSE)—rewiring the community

Plan: In collaboration with the local utility, provide grant incentives to install EVSE equipment for up to five percent of all the private residences, five percent of commercial building owners, as well as all public buildings to accommodate and encourage the deployment of plug-in electric vehicles.

Eaton's solution: Eaton's truck and electrical business will support a \$45.5 million grant through the ARRA to produce plug-in hybrid electric power systems for the nation's largest commercial hybrid deployment to date. An important element in the adoption of these vehicles is the electrical infrastructure for plug-in charging. As a leader in electrical technology, Eaton will work to develop plug-in station technology for use by utilities and other customers across the country.

Developing a successful plan

Regarding the Retrofit Ramp-Up program, U.S. Secretary of Energy Steven Chu said, "By encouraging partnerships between local governments and effective private enterprises, we hope tune-ups for buildings will become as accepted as tune-ups for cars. These efforts will save Americans millions of dollars, reduce carbon pollution and create new green jobs."

By collaborating with Eaton, your plan can have the products, support and resources to be a success. Please feel free to contact us at 1-888-ETN-1USA (1-888-386-1872).

Eaton's Electrical Sector is a global leader in power distribution, power quality, control & automation and monitoring products. When combined with Eaton's full-scale engineering services, these products provide customer-driven PowerChain Management® solutions to serve the power system needs of the data center, industrial, institutional, government, utility, commercial, residential, IT, mission critical and OEM markets worldwide.

PowerChain Management solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit www.eaton.com/electrical.

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