

ENERGY EFFICIENCY TRUST FUND PROGRAM REPORT

January 2011 through December 2011

**ILLINOIS DEPARTMENT OF COMMERCE AND ECONOMIC OPPORTUNITY
ILLINOIS ENERGY OFFICE
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SPRINGFIELD, ILLINOIS 62701**

***ENERGY EFFICIENCY TRUST FUND
PROGRAM UPDATE
For the Period January 2011 through December 2011***

INTRODUCTION:

The Department of Commerce and Economic Opportunity (DCEO) administers the Energy Efficiency Trust Fund (Trust Fund) as established by the Renewable Energy, Energy Efficiency, and Coal Resources Development Law of 1997 (“the Law”). The Law requires that funds be spent on projects that promote residential energy efficiency in the state, with emphasis on low-income households. These programs produce two major benefits for the Illinois economy, the efficiency gains that provide substantial savings to consumers and the additional jobs created to install and implement the projects described in this report. Energy efficiency projects furthermore tend to improve building comfort, improve lighting and indoor air quality, decrease unscheduled maintenance and make a positive contribution to the environment through the reduction of unnecessary pollution.

DCEO’s Illinois Energy Office administers these funds as stipulated by the Law. Within the Bureau, the “State Energy Office,” as designated by the U.S. Department of Energy (U.S. DOE), operates energy efficiency and renewable energy programs involving all sectors of the Illinois economy, including the residential sector. This report covers only those energy efficiency programs funded through the Law. All of these programs embody the benefits of energy efficiency, such as improved occupancy comfort, utility bill savings, reduced energy consumption and improved grid reliability.

Energy efficiency promotes both sound fiscal practices and environmental stewardship. Illinois has the potential to serve as a model state for energy efficiency in its residential structures. Implementation of energy efficiency practices will continue to require collaboration, support and funding from the Legislature and capable third-party implementers, such as consultants, contractors, utilities and cooperatives.

PROGRAM OVERVIEW:

In 2011 the Energy Efficiency Trust Fund provided funding for several programs designed to meet Trust Fund guidelines. Projects include:

Illinois Energy Efficient Affordable Housing Construction Program

The *Illinois Energy Efficient Affordable Housing Construction Program* was funded from the Trust Fund in 2011 at a level of approximately \$1.6 million. This program offers grants to fund incremental costs associated with energy efficiency improvements in residential construction projects targeted to low- and moderate-income households.

This energy efficient housing program has been a highly visible success for DCEO and has garnered support from U.S. DOE, the Illinois Housing Development Authority, the City of Chicago, several major utilities, architectural teams, and numerous affordable housing development networks in the state. The program provides up to \$4,000 per unit for new housing developments and up to \$4,500 per unit in rehab housing developments. The program results in utility savings averaging over 50% and a return on investment of over 30%. In addition, this program has been an integral part of the Bureau's effort to leverage private investments with public dollars and increase capital available to Illinois developers. Trust Fund dollars have also allowed DCEO to include funding for super-efficient refrigerators, high efficiency air conditioners and more efficient lighting as part of these housing projects. The success and the active support of the allied groups listed above have resulted in a tremendous increase in demand for this program, especially in the greater Chicago area.



In addition to providing affordable housing units for these families and meeting the low-income goals of the Energy Efficiency Portfolio law (ILCS 220 5/8-103), the results of this program are also used to encourage energy efficient building practices in all levels of construction activity in the state. The program also serves as a training ground for tradesmen to learn the latest energy efficient building techniques. The economic efficacy of energy efficient construction practices proven by this program has been and will continue to be publicized to the Illinois development, architectural, and construction industries. Education efforts include presentations at conferences, workshops, and seminars, including the *Affordable Comfort Conference*.

An overview of the *Illinois Energy Efficient Affordable Housing Construction Program* in 2011 is shown below. Projects funded under the program fall into one of three categories; Gut Rehab, New Multi-Family and New Single Family. The table below contains a complete list of grantees.

1. Gut Rehab – In 2011, eight gut rehab projects were funded. Grantees started or completed rehabbing 522 multi-family units.
2. New Multi-Family – In 2011, a total of 12 new multi-family projects received energy grants. Grantees started or completed construction on 773 new multi-family housing units.
3. New Single Family – In 2011, a total of six new single-family projects received energy grants. Grantees started or completed construction on 164 new single-family housing units.

In total in 2011, the Energy Efficiency Trust Fund awarded \$1,564,828 in grants for 26 projects to build 1,459 affordable housing units. In addition to the EETF most of these projects were eligible for funding from additional sources, such as the Energy Efficiency Portfolio (EEP),

Illinois Housing Development Authority, U.S. Department of Housing and Urban Development, or the City of Chicago. DCEO awarded a total of \$3,324,552 from the Energy Efficiency Portfolio for those projects located in the ComEd or Ameren Illinois electric service territories. DCEO estimates that the electricity savings from this program exceeds 3.2 million kWh annually or more than \$200 in savings for each home. The savings from natural gas efficiency measures more than double those annual cost savings.

Grantee	Project Name	City	Total Grant Amount	Trust Fund Grant	Square Footage	Units
Rehab			\$1,797,292	\$620,723	453,402	522
Blackhawk Apartments, Inc.	Bella Vista	Waterloo	\$228,030	\$228,030	56,820	76
Brinshore 2800 Corp.	Hairpin Lofts	Chicago	\$87,375	\$20,674	19,250	25
Chicago Housing Authority	The Pomeroy	Chicago	\$397,139	\$91,919	93,268	104
Community Partners for Affordable Housing		Highland Park	\$32,250	\$7,995	12,600	7
IFF Real Estate Services, LLC		Maywood	\$69,753	\$16,621	15,334	26
Lake County Residential Corporation	Colonial Apartments	Park City	\$783,245	\$180,724	205,920	240
Rock Island Economic Growth Association	Jackson Square	Rock Island	\$36,750	\$36,750	8,336	8
St. Edmund's Redevelop. Corp.	St. Edmund's Court	Chicago	\$162,750	\$38,010	41,874	36
New Multi-Family			\$2,470,588	\$590,565	596,777	773
Banner Funding, Inc.	Residences at Fountain Square	Waukegan	\$288,356	\$66,899	67,672	75
DKI-LITH GP, LLC	Lake in the Hills	Lake in the Hills	\$293,838	\$68,160	68,962	82
Featherfist	Oswego	Oswego	\$172,365	\$40,221	40,380	60
Lake County Center - Prevention of Domestic	A Safe Place	Zion	\$90,616	\$21,419	21,145	20
Lake County Residential Development Corp.	Victory Centre of Vernon Hills	Vernon Hills	\$407,714	\$94,352	108,715	207
New Moms, Inc		Chicago	\$115,024	\$27,033	26,888	40
Roseland Village Inc., NFP	The Village Apartments	Chicago	\$40,750	\$25,350	14,032	10
St. Edmunds Redevelopment Corporation	The Commons	Chicago	\$275,194	\$63,872	64,575	41
South Suburban PADS	County Club Hills Wellness Ctr.	County Club Hills	\$183,865	\$42,866	43,086	77
TCB Development Services LLC	Oakwood Shores - Senior	Chicago	\$285,750	\$66,300	67,059	75
TCB Development Services LLC	Oakwood Shores - Terrace	Chicago	\$143,091	\$33,488	33,492	36
Volunteers of America Illinois	Hope Manor Apartments	Chicago	\$174,025	\$40,603	40,771	50
Single Family			\$621,500	\$353,540	212,482	164
Blackhawk Apartments, Inc.	Lexington Farms	Jerseyville	\$128,750	\$30,190	45,440	32
DDG Monmouth, LLC	Monmouth Farms	Monmouth	\$136,750	\$32,030	48,176	40
HFH of McLean County		Bloomington	\$64,750	\$15,470	20,608	16
Madison Co. Affordable Housing Corp, NFP		Madison	\$20,750	\$5,350	8,490	5
Nehemiah Expansion II		Springfield	\$120,750	\$120,750	36,781	30
Springfield Housing Authority	Genesis	Springfield	\$149,750	\$149,750	52,987	41
Total: 26 projects			\$4,889,380	\$1,564,828	1,262,661	1,459



The *Illinois Energy Efficient Affordable Housing Construction Program* is designed to meet or exceed the standards of the national ENERGY STAR® program and the state’s current Energy Efficient Building Code (based on the International Energy Conservation Code at the time of construction). Many of the buildings would qualify for LEED certification as well.

Through this program, grant funding has provided the necessary incremental costs to enable several thousand low and moderate income families to reside in super-efficient structures, saving significant energy resources and connected costs. Since *Illinois Energy Efficient Affordable Housing Construction Program’s* inception in 1988, 2,572 units have been rehabilitated, 3,047 units of new multi-family housing have been completed, and more than 1,235 new single-family homes have been completed.

Lights for Learning

The Lights for Learning school fund-raiser program provides an opportunity to expand the ENERGY STAR lighting educational program. The purpose of Lights for Learning was to strengthen the promotion of ENERGY STAR lighting by introducing students, teachers, and their communities to specialty CFLs and LEDs, including daylight, 3-way, recessed cans, outdoor lighting applications, and holiday stands. This fund-raiser allows schools to accomplish their education goals in promoting a healthy, environmental message for their students and community.

This project fulfills the mandate to impact energy efficiency in residences through the replacement of energy inefficient lighting units with ENERGY STAR recognized units. In addition this project complies with educational mandates by providing appropriate information to consumers. This project also provides opportunities to partner with schools, U.S. DOE, Midwest Energy Efficiency Alliance (MEEA), and local organizations to help leverage a broad exposure of energy saving information.

Performance Indicator	EEPS Funded	EETF Funded	Total Program
School Presentations	219	7	226
Participating Students	2,528	83	2,611
Participating Schools	158	9	167

During the 2010-2011 school year 167 schools participated in the Lights for Learning Program, eight with EETF funding and the remaining with EEP funding. The 2,611 participating students (83 with EETF funding) raised \$46,800.75 through Lights for Learning fundraisers for their schools and school organizations. In total, students sold 28,880 efficient lighting products as shown in the table below. The products sold by the students will save an estimated 984,233 kWh annually, reducing the energy bills of the students’ families and friends by about \$100,000 each year. The Lights for Learning program also conducted 226 educational presentations that reached more then 20,600 attendees.

Product Type	EEP Funded	EETF Funded	Total Program
13W Spiral	5,215	581	5,796
13W CFL Desk Lamp	371	34	405
13W Capsule	47	21	68
TCP 14W 2 Pack (Capsule)	2,754	440	3,194
14W R30 Reflector	1,428	153	1,581
15W Reflector	72	-	72
19W 3 Pack (Spiral)	2,577	228	2,805
20W Spiral	2,281	208	2,489
23W Spiral	3,476	366	3,842
33W 3-Way	30	14	44
23W Reflector (Par 38)	-	20	20
Sample Kit (13W, 20W, 23W Spiral)	2,844	252	3,096
LED Nightlight	3,337	301	3,638
Multicolor 25' LED Holiday Strand	1,170	153	1,323
White 25' LED Holiday Strand	386	59	445
BITs Power Strips	21,095	2,317	40
Kill-A-Watt Monitor	4,893	513	22
TOTAL All Units	25,988	2,830	28,880

Illinois Sustainable Education Programs

Three projects were funded under the Illinois Sustainable Education Program (ISTEP) in 2011. Each is described below:

U of I Net-Zero House Outreach The University of Illinois at Urbana-Champaign (UIUC) completed work on Grant No. 10-196004 this year. The purpose of the grant was to fund an education/outreach project that provided training and information to state residents, builders, developers, architects, realtors, and other interested entities on the promotion and operation of energy efficiency and renewable energy technologies as it relates to green sustainable housing development, net-zero energy home, and net metered grid tied homes. The work on the grant was centered around the UIUC 2009 Solar Decathlon Gable House. After the U.S. Department of Energy's Office of Energy Efficiency 2009 Solar Decathlon competition, the home was transported back to UIUC to serve as a learning example of a grid tied solar-powered net-zero energy home. The Training and Educational Sessions completed under this grant focused on two training sessions with school educators from around the state demonstrating how the Net-Zero House worked and its potential roll in the classroom, and three one-day training sessions focused on designing and building sustainable net zero energy home. These sessions reached a total of 79 residents. In addition to the sessions, numerous outreach events have been hosted at the house and continue beyond the grant period. Through May 31, 2011, 2,081 visitors have toured

the home. A booklet titled: *Net-Zero Energy Home Design: A Case Study* was published to provide general information on designing, building, and operating net-zero energy homes.

How Much Does It Cost Exhibit The Chicago Architecture Foundation continued working on Grant No. 10-196005 this year. The purpose of the grant is to fund an exhibition entitled “How Much Does It Cost?” The exhibition will contrast environmental, social, and political costs of consumption and waste with the costs of creating a society committed to enhancing energy efficiency, employing renewable energy, and preserving and recycling its resources. The project shall educate and empower individuals, families, and professionals to make decisions that facilitate the transition to a sustainable Illinois. Design work, artifact acquisition, and education program design continued throughout 2011. Though originally scheduled for a fall 2011 opening, the Chicago Architecture Foundation decided to postpone the opening of the exhibition until February 2012 to ensure that the project gets the attention that it deserves, as they had three other major initiatives being launched in the fall.

Greening Southwestern Illinois Schools Lewis and Clark Community College began working on Grant No. 11-196002 this year. This grant is funding the “Greening Southwestern Illinois Schools” project to connect Illinois K-12 schools in Southwestern Illinois with education and regional professional expertise, leading to building improvements and curriculum incorporating resource conservation. Lewis and Clark Community College is working with the Missouri Botanical Garden’s EarthWays Center on the project. During June 2011, Lewis and Clark Community College hosted the first Summer Energy Institute, which is a field-based intensive training for Illinois teachers to explore energy production and uses. The four day institute included tours of Calloway Nuclear Plant, Bagnell Dam, wind turbine, Chamois Plant, Conoco Phillips Oil Refinery, Laclede Gas, solar array and methane capture from a landfill. A second Summer Energy Institute is planned for June 2012. The program will also be modified to allow for one day excursions in addition to the full four day event. Lewis and Clark also began work on the “Investigate Green Schools” project. In this program staff will work with four Metro-East area middle schools during the 2011-2012 school year to explore the concepts of sustainability, conduct an audit of resources used in their school, make recommendations for building and occupant practice improvements, develop and implement a student-driven project to make at least one improvement, and make a formal presentation to their school board. Work under this program began at Triad Middle School and St. Mary St. Augustine School in Belleville during the fall semester. Additional schools will participate in the spring.