Programs and Grants for Public Sector

Bureau of Energy and Recycling
Andrea Reiff
illinois.energy@illinois.gov

Warren Ribley, Director
Pat Quinn, Governor
DCEO PUBLIC SECTOR PROGRAMS

- Energy Efficiency Portfolio Programs
- Training & Education Programs
- Renewable Energy/Recycling Programs
- Low Income Grant Programs
- American Reinvestment and Recovery Act (ARRA) Programs
State and Federal Energy Funds

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount (millions)</th>
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</thead>
<tbody>
<tr>
<td>EEPS</td>
<td>$108.7</td>
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<tr>
<td>SEP</td>
<td>$101.3</td>
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<tr>
<td>EECBG</td>
<td>$112.2</td>
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<tr>
<td>RERP</td>
<td>$5.0</td>
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<tr>
<td>EETF</td>
<td>$3.0</td>
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<tr>
<td>Energy Star</td>
<td>$12.5</td>
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</tbody>
</table>
Energy Efficiency Portfolio Standard (EEPS)

In 2007, legislation that amended the Illinois Public Utilities Act required that the State’s largest utility providers and the Department of Commerce & Economic Opportunity (DCEO) develop a portfolio of electric energy efficiency programs to meet defined legislative goals.

Applies only to ComEd & Ameren Illinois electric service territories.
EEPS is a group of energy efficiency programs that provide incentives in the form of rebates and/or grants for ComEd and/or Ameren Illinois utility customers to encourage them to purchase and install high efficiency equipment and systems to reduce electricity use.

- Sets goals of 0.2% reduction in electricity load, rising to 2.0% reduction by 2015
- Increases state energy efficiency funding from $3 million to ~$200 million plus
- Provides for independent evaluation of the programs
- 75% ComEd & Ameren Illinois, 25% DCEO
- Will bring Illinois up to funding levels equivalent to other significant national programs
## EEPS Projected Energy Efficiency Funding

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding Level</th>
<th>DCEO Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$53.2 million</td>
<td>$12.9 million</td>
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<tr>
<td>2009</td>
<td>$109 million</td>
<td>$26.4 million</td>
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<tr>
<td>2010</td>
<td>$172 million</td>
<td>$41.6 million</td>
</tr>
<tr>
<td>2011 +</td>
<td>$235 million</td>
<td>$57 million</td>
</tr>
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</table>

Public Benefit Funds from ComEd & Ameren Illinois Electric utility customer’s rider on electric bill effective June 1, 2008.
DCEO PUBLIC SECTOR ELECTRIC EFFICIENCY PROGRAM (PSEE)
Ameren and ComEd electric service area only

DCEO Public Sector

- Local Governments
  - Municipalities
  - Townships & County Facilities
- Special Units of Local Government
  - Library & Park Districts
  - Public Safety
  - Water Reclamation Districts
- State and federal agencies
- Public Schools
  - K-12 Public Schools
  - Public Community Colleges
  - Public Universities

ComEd/Ameren Electric Utilities

- Privately owned Businesses
- Privately owned Industrial & Commercial Facilities
- Private Schools
  - Private K-12 Schools
  - Private Colleges
  - Private Universities
- Not-for-profit
  - Museums
  - Foundations
  - Trade Organizations
  - 501C3
- Residential
Public Sector Electric Efficiency (PSEE) Programs

- Standard Incentive Program
- Custom Incentive Program
- New Construction Program
- Retrocommissioning Pilot Program
Public Sector Electric Efficiency (PSEE) Standard Incentive Program

Provides grants and rebates to public sector entities for a specific list of equipment upgrades. Includes electric system efficiency improvements for:

- Lighting Equipment
- HVAC Equipment
- Refrigeration Equipment
- Motors and Drives
- LED traffic signals (DCEO only)
Approx 40% energy savings
Standard incentive = $7.50 per lamp and ballast incentive
Delamp = $6.50
Delamp and add reflector = $13
More light
Better quality
High Bay Lighting Retrofits

- 400 watt metal halide to premium T8 or T5 HO fixtures
- 25% to 50% energy savings
- Standard Incentive = $0.44/Watt saved
- Instant on and off
- More likely to be turned off when not used
- incentive = $108 per fixture
  
  = (460W - 215W) \times (0.44)
LED Exit Signs

- 70% to 90% savings
- Standard Incentive = $22/sign
- Maintenance savings
Public Sector Energy Efficiency Custom Incentive Program

Projects that involve non-standard incentives and other unique projects

- Electric efficiency improvements not captured by the standard program
- $0.08 per kWh savings for measures with 1-7 year payback on first year kWh savings
- New lighting systems that operate 24/7
- Exterior lighting for demonstration of breakthrough equipment may receive an incentive of $0.20 per kWh.
### Year 2 EEPS Standard and Custom Incentive Projects to Date

<table>
<thead>
<tr>
<th>Funding Level</th>
<th>Ameren Electric Utilities</th>
<th>ComEd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2 Budget</td>
<td>$3.20 million</td>
<td>$9.68 million</td>
</tr>
<tr>
<td>Remaining</td>
<td>$2.04 million</td>
<td>$6.71 million</td>
</tr>
</tbody>
</table>

Year 2 for projects that are completed between 6/1/09 and 5/31/10.
Public Sector Electric Efficiency
New Construction Program

- Provides grants to public sector entities to encourage applicants to design new or rehabbed buildings to achieve the highest level of energy efficiency.
- Incentive for new construction or remodeling facilities ≥ 15,000 sq. ft. that exceed the Illinois Energy Conservation Code for Commercial Buildings (or other applicable code)
- Option of $0.05/kWh for constructing single components beyond code

<table>
<thead>
<tr>
<th>Measure</th>
<th>Incentive</th>
<th>Cap</th>
</tr>
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<tbody>
<tr>
<td>10% Beyond Code (kWh)</td>
<td>$0.20 per sq. ft.</td>
<td>$200,000</td>
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<tr>
<td>15% Beyond Code (kWh)</td>
<td>$0.40 per sq. ft.</td>
<td>$200,000</td>
</tr>
<tr>
<td>20% Beyond Code (kWh)</td>
<td>$0.60 per sq. ft.</td>
<td>$200,000</td>
</tr>
<tr>
<td>25% Beyond Code (kWh)</td>
<td>$0.80 per sq. ft.</td>
<td>$300,000</td>
</tr>
<tr>
<td>30% Beyond Code (kWh)</td>
<td>$1.00 per sq. ft.</td>
<td>$300,000</td>
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</tbody>
</table>
DCEO Retro-Commissioning Pilot Program

- Provides public sector funding to identify and implement low cost tune-ups and adjustments to existing building operating systems with a focus on HVAC and building control systems
- Delivered through a trained network of retro-commissioning (RCx) providers
- DCEO will work with the utilities to use the same program administrator and RCx providers
- Year 2 will fund a few pilot projects
Low Income Energy Efficiency Programs

- **Affordable Housing Energy Efficient Construction Program**
  - Supports energy efficiency in new construction and gut rehab
  - A per unit incentive for developers of affordable housing that commit to a complete list of efficiency measures
  - Expanded to for-profit developers in addition to not-for-profits

- **Low Income Energy Efficient Residential Retrofit**
  - Partners with state agencies, local governments, & affordable housing developers that administer weatherization or other low income home improvement programs to add electric energy efficiency measures

- **Efficient Living Program for Illinois Public Housing Authority**
Fuel-switching (i.e., from oil or natural gas to electric equipment), renewable, or combined heat and power technologies do not qualify for incentives.

**Ineligible Measures**

- Fuel switching
- Solar / Wind projects (other incentives available)
- Residential applications (other incentives available)
- Onsite Generation
- Peak Shifting
The Bureau of Energy and Recycling seeks to demonstrate the economic development benefits, including job creation, of energy efficiency, renewable energy, and recycling through a variety of programs and services. Further, Bureau programs will demonstrate that economic development, sustainable energy, recycling practices, and environmental protection go hand in hand.

In addition, the Bureau will continue to promote the leadership of the State of Illinois, through its own energy and recycling policies and practices, at state facilities. Individually tailored programs are available to assist Illinois citizens, communities, non-profit organizations, businesses, industry, and other government agencies in an effort to achieve the Bureau's mission.

Click here for a summary of Bureau of Energy and Recycling programs.
The Programs offered by DCEO’s Bureau of Energy and Recycling are as follows:

Public Sector Electric Efficiency

These programs include the Standard and Custom Incentive Programs and New Construction Program. These are offered to the Public Sector:

- federal, state and local government (county, township, municipal),
- public schools, community colleges, public universities and colleges,
- public safety, water and park districts

in ComEd and Ameren Illinois electric service territories.

Standard and Custom Incentive Programs
Provides grants and rebates to public sector entities for electric system efficiency improvements including lighting, motors, variable frequency drive controls, HVAC equipment, traffic signals, among others. Guidelines, Application, Worksheets

Standard Incentive Program
Provides set incentive levels for common retrofits for lighting, HVAC, motors and refrigeration. Application and Standard Incentive Forms in Excel format. (Use these spreadsheets to fill in the Application from Appendix A and Standard Incentive Worksheets from Appendix B: Lighting, HVAC, Motors, Refrigeration)
Illinois Municipal Electric Agency (IMEA)
Electric Efficiency Programs

- Standard Incentive Program
- Custom Incentive Program
- Mike Genin
- 217.789.4632
- mgenin@imea.org
Technical Assistance/Training & Education – Statewide Eligibility

Energy Audits, Design Assistance

- Smart Energy Design Assistance Center (SEDAC)
- Large-Customer Energy Analysis (LEAP)
- Energy Performance Contracting (EPC)

Training & Education

- Business Industry Training & Education
- Code Training
- Building Operator Training
- Lights for Learning
- Green-Jobs Grants
Smart Energy Design Assistance Center (SEDAC)

- Partnership with the University of Illinois, SEDAC Design Assistance Experts and Energy Service Providers
- Assist public sector and private building owners identify opportunities to save energy and money
- Provides energy audits, analysis and design assistance including:
  - Design review and/or site inspection
  - Computer modeling of base case and alternatives with ECMs
  - Energy savings analysis
  - Life cycle cost analysis
  - Final report with recommendations
- Energy service provider list

www.sedac.org
Large-customer Energy Analysis Program (LEAP)

- Targets large customers such as municipalities, colleges, hospitals and industrial sites with $500,000 in annual utility expenses
- A Management Diagnostic to develop an energy management strategy for customer
  - Identifies strengths and weaknesses in current practices
  - Provides an action plan with priority items
  - Benchmarks energy management performance in 22 specific areas
- Financial assistance (50% of cost) to prepare action plans
- Financial assistance (50% of cost) to conduct technical studies
Energy Performance Contracting

- DCEO offers no cost technical assistance
  - Units of municipal, county and state government
  - K-12 schools, colleges and universities
  - Nonprofit organizations
- Boilerplate documents
  - Request for Proposal
  - Energy Audit Agreement
  - Energy Service Agreement
- Measurement and verification assistance
Training & Education

Training & Education includes:

- Commerical & residential green building practices
- Building code and beyond code training
- Building Operator Certification
- Rater training
- Community College degree and training Programs
- Lights for Learning

Programs to train students and the building industry as well as to enhance the capacity of efficiency service providers, in order to meet long-term EEPS goals
American Recovery and Reinvestment Act
State Energy Program

$101 million

RFAs Due Oct. 26
- Renewable Energy Production $20M
- Community Renewable Energy Program $10M
- Green Industry Business Development $30M
- Next Generation Biofuels Production $10M

Solicitation Closed Oct. 1
- Green Roofs Grant $1M
- Electric Energy Efficiency Program $5M
- Thermal Efficiency for Public Facilities $7M
- Large Customer Energy Efficiency $17M
<table>
<thead>
<tr>
<th>ARRA Program</th>
<th>Funding (millions)</th>
<th>Purpose</th>
<th>Eligible Applicants</th>
<th>Grant Levels**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable Energy Production</td>
<td>$20</td>
<td>Support development and implementation of large (5 MW or larger) renewable energy projects intended for selling power in the electricity market. Preference for solar photovoltaic, biomass/biogas to energy, and hydroelectric projects. Wind projects must demonstrate need for grant funds.</td>
<td>governmental entities* - businesses - not-for-profit organizations</td>
<td>- 25% of eligible project costs - maximum grant of $5,000,000</td>
</tr>
<tr>
<td>Community Renewable Energy Program</td>
<td>$10</td>
<td>Support solar, wind, and other renewable energy projects that provide energy for the applicants’ own energy needs. Eligibility is limited to project costs for the purchase and installation of renewable energy generation equipment and related metering components.</td>
<td>governmental entities - businesses - not-for-profit organizations</td>
<td>30% of eligible project costs for private businesses - 50% of eligible project costs for public &amp; non-profit entities - maximum grant of $500,000</td>
</tr>
<tr>
<td>Green Industry Business Development</td>
<td>$30</td>
<td>Support the development or expansion of 1) manufacturing of renewable energy equipment and components, 2) manufacturing of energy efficiency equipment or components, 3) production of dedicated biomass crops (such as miscanthus or switchgrass), 4) manufacturing of recycled content products.</td>
<td>businesses - not-for-profit organizations - governmental entities</td>
<td>max. of 50% of eligible project costs - minimum grant of $250,000, maximum of $5,000,000</td>
</tr>
<tr>
<td>Green Roofs Grant</td>
<td>$1</td>
<td>Support development of cost-effective green roof projects that increase energy efficiency, clean and retain rainwater, and reduce “Urban Heat Island Effects.</td>
<td>Entities/projects located in a city with a population of greater than 50,000</td>
<td>$10/sq.ft. incentive - up to 50% of total project cost - maximum grant of $100,000</td>
</tr>
<tr>
<td>Electric Energy Efficiency Program</td>
<td>$5</td>
<td>Two Areas of Interest (1) Support electric energy efficiency projects in the public sector, in areas of the state not eligible for incentives under the Public Sector Electric Efficiency Program. (2) Supports non-investor owned utilities proposing to develop and administer electric efficiency programs.</td>
<td>governmental entities - (1) governmental entities outside of Ameren Illinois Utilities - ComEd electric territories - (2) municipal utilities &amp; electric co-ops</td>
<td>(1) incentive as listed for Standard lighting, HVAC, motors, &amp; refrig. - 8 cents/kWh for Custom projects - maximum grant of $500,000 (2) muni &amp; co-op max $3M</td>
</tr>
<tr>
<td>Thermal Efficiency for Public Facilities</td>
<td>$7</td>
<td>Support energy efficiency projects that produce thermal energy savings through efficiency improvements in buildings, equipment, or process. Thermal Energy refers to energy produced by combustion of natural gas, liquid petroleum (LP), coal or oil products.</td>
<td>governmental entities</td>
<td>$1/therm or $10/mmbtu for retrofit projects - $0.75/therm or $7.50/mmbtu for new construction - $1,000 per ton for closed loop geothermal - maximum grant of $500,000</td>
</tr>
<tr>
<td>Large Customer Energy Efficiency</td>
<td>$17</td>
<td>Support projects that improve the energy efficiency and reduce operating expenses of industrial enterprises and other large energy users. Projects eligible for funding through the EEPS Program offered by DCEO, ComEd or Ameren Illinois are ineligible.</td>
<td>Entities with a combined annual energy costs of at least $500,000, including: businesses - private universities</td>
<td>$1/therm, $10/mmbtu, and 8 cents/kWh saved - max. of 30% of eligible project costs for private businesses - minimum grant of $250,000, maximum of $2,000,000</td>
</tr>
<tr>
<td>Next Generation Biofuels Production</td>
<td>$10</td>
<td>Support the next generation of renewable biofuels technologies that will increase production efficiency, reduce energy and water usage, reduce GHG emissions, and increase renewable fuels output from biofuels facilities.</td>
<td>businesses - public and private colleges and universities</td>
<td>up to 25% of eligible project costs - minimum grant of $100,000, maximum grant of $3,000,000</td>
</tr>
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</table>

*Governmental entities include: local, state, and federal government agencies, municipal corporations, public k-12 schools, community colleges, and public universities.

**Grant award could be reduced if applicant combines this grant with funds from other public incentive programs such as State Energy Program, Energy Efficiency and Conservation Block Grant, Illinois Clean Energy Community Foundation, or other ARRA grants. The applicant is expected to contribute a minimum of 25% of the total project cost.
ARRA
Energy Efficiency & Conservation Block Grant Program (EECBG)

- Formula based grants from DOE to:
  - Illinois counties with a population > 200,000
  - Illinois communities with a population >35,000
  - the State for smaller communities & state programs
    - $13M to Illinois Regional Planning Agencies

- 52 Cities, $53.7
- State, $8.7
- Small Cities, $13.1
- 10 Counties, $36.6
Future ARRA ENERGY STAR Residential Appliances Program Plans

- Plan submitted to USDOE 10/15. Planning for December announcement.
- Phase 1: HVAC Contractors may work with program to provide incentives from DCEO to their customers for furnaces, boilers, ac. Planned for 12/09 launch.
- Phase 2: Earth Day April 2010 launch. Appliances that may receive 10-15% incentives; refrigerators, clothes washers, dishwashers, freezers, room and central ac, water heaters, air source heat pumps. Additional rebate for recycling.
Energy and Recycling News: Building Industry Training and Education Program Guidelines are now posted and applications are due by May 1, 2009. Click here for application and guidelines.

Program areas include the following:

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**ECONOMIC STIMULUS**

On February 17, 2009, President Obama signed into law the $787 billion economic stimulus bill known as the American Recovery and Reinvestment Act. The Act includes substantial investment in Energy Initiatives. DCEO’s Bureau of Energy and Recycling is charged with implementing these provisions in order to create jobs, stimulate the economy, improve the environment and further our Nation toward energy independence.
Renewable Energy Resources Program

- Approximately $5 million per year for the Renewable Energy Resources Program
- Programs Available:
  - Solar and Small Wind Energy Rebate Program
  - Biomass and Biogas-to-Energy Program
- Program funding for solar and small wind energy rebate program has been delayed this fiscal year due to state budget issues
  - hopeful that funds will be restored and that rebate program will re-open in coming weeks
- Rebates and grants are available to businesses, governments, non-profit entities, and residential customers that pay into fund.
Illinois Recycling Grants Program

Traditional Recycling Grants – Deadline is 11/13/09

- Through a competitive process, awards matching grants involving the establishment or expansion of recycling collection or processing programs that address traditional recyclables (e.g.: fiber, plastic, metal, glass).
- Project examples: curbside recycling, drop-off recycling, colleges, park districts, office buildings, sports facilities, etc.
- Current maximum amount for “traditional” recyclables is $60,000 for collection and $120,000 for processing

Electronics Recycling Grants – Deadline 11/13/09

- Permanent Collection/Processing of computers and other electronics (vs. one-day collection events)
- Current maximum amount for “electronics” is $75,000 or collection and/or processing with a maximum of $120,000 for any one entity

Visit: illinoisrecycles.com for Recycling Division Programs
Illinois Recycling Expansion and Modernization (REM) Program

(REM) Program grants that improve waste reduction practices and increase use of recyclables to divert materials from municipal landfills

- Awards matching grants to IL organizations and businesses for:

  Waste Reduction projects to modernize solid waste management practices, and/or

  Market Expansion projects to manufacture recycled-content products and increase the use of recyclable materials.
Illinois Zero Waste Schools Program

- This program accepts applications from K-12 Illinois schools to implement or expand recycling and waste reduction programs.
  - Level 1: recycling and source reduction activities
  - Level 2: includes above and composting/vermicomposting (worms)
  - Average grant award about $7,000
  - Eligible expenditures: collection containers, paper shredders, can crushers, hand dryers, compost equipment and tools, and other Department approved items.
<table>
<thead>
<tr>
<th>Link</th>
<th>Information</th>
</tr>
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<tbody>
<tr>
<td><a href="http://www.illinoisenergy.org">www.illinoisenergy.org</a></td>
<td>DCEO Energy Programs: guidelines, RFPs, contacts, applications, and other resources</td>
</tr>
<tr>
<td><a href="http://www.ComEd.com">www.ComEd.com</a></td>
<td>Info on ComEd Smart Ideas Business Solutions Programs</td>
</tr>
<tr>
<td><a href="http://www.ileeps.org">www.ileeps.org</a></td>
<td>EEPS Information for DCEO, ComEd and Ameren EEPS programs</td>
</tr>
<tr>
<td><a href="http://www.sedac.org">www.sedac.org</a></td>
<td>Smart Energy Design Assistance Center: Technical assistance for businesses and public sector providing energy information, news and trainings, energy service provider list</td>
</tr>
<tr>
<td><a href="http://www.illinoisrecycles.com">www.illinoisrecycles.com</a></td>
<td>DCEO Recycling Programs for local government, businesses and non-profits</td>
</tr>
<tr>
<td><a href="http://www.illinoiscleanenergy.org">www.illinoiscleanenergy.org</a></td>
<td>IL Clean Energy Community Foundation: grants for energy efficiency, renewable energy and natural areas for local government and non-profits</td>
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</tbody>
</table>