



# State Energy Efficiency and Renewable Energy Programs

## Sustainable Schools Symposium

February 27, 2009  
Joliet, Illinois

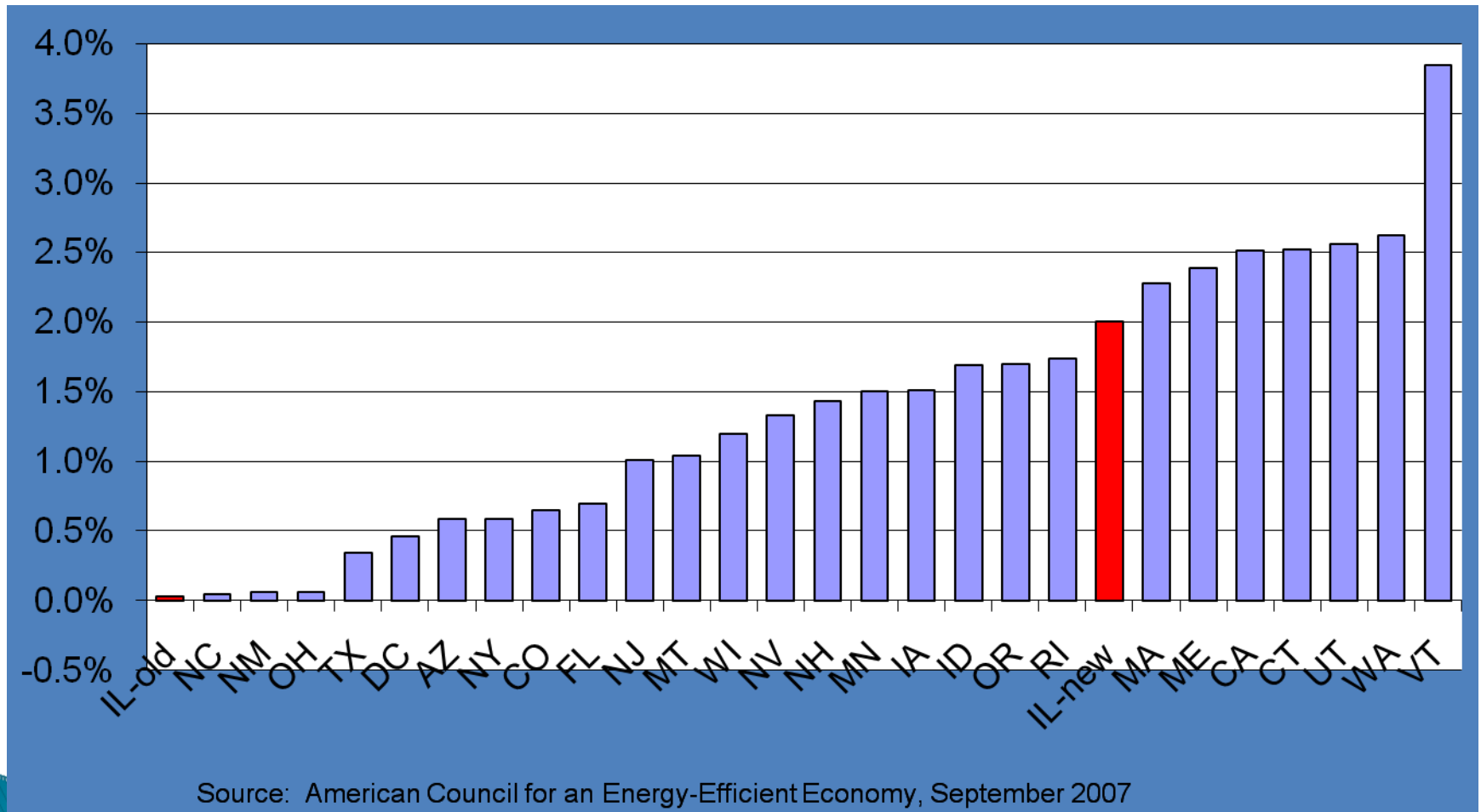
Jack Lavin, Director

Pat Quinn, Governor

# ***Energy Efficiency Portfolio Standard (EEPS)***

- ▶ 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
- ▶ Funded with fees on ComEd and Ameren Illinois electric utility customers
- ▶ 75% ComEd & Ameren Illinois, 25% DCEO
- ▶ 10% of funds to local governments, K-12 schools, and community colleges
- ▶ Three-year plan approved by Illinois Commerce Commission
- ▶ Started June 1, 2008

# Public Benefit Funding for Energy Efficiency as a Percent of Utility Revenues



# ***DCEO's Portion of the Illinois Energy Efficiency Portfolio***

## ▶ **Public Sector (~65%)**

- Local Governments
- K-12 Schools
- Community Colleges
- Universities
- State & Federal Facilities

## ▶ **Low Income (~25%)**

- New Construction/Gut Rehab
- Remodeling/Weatherization

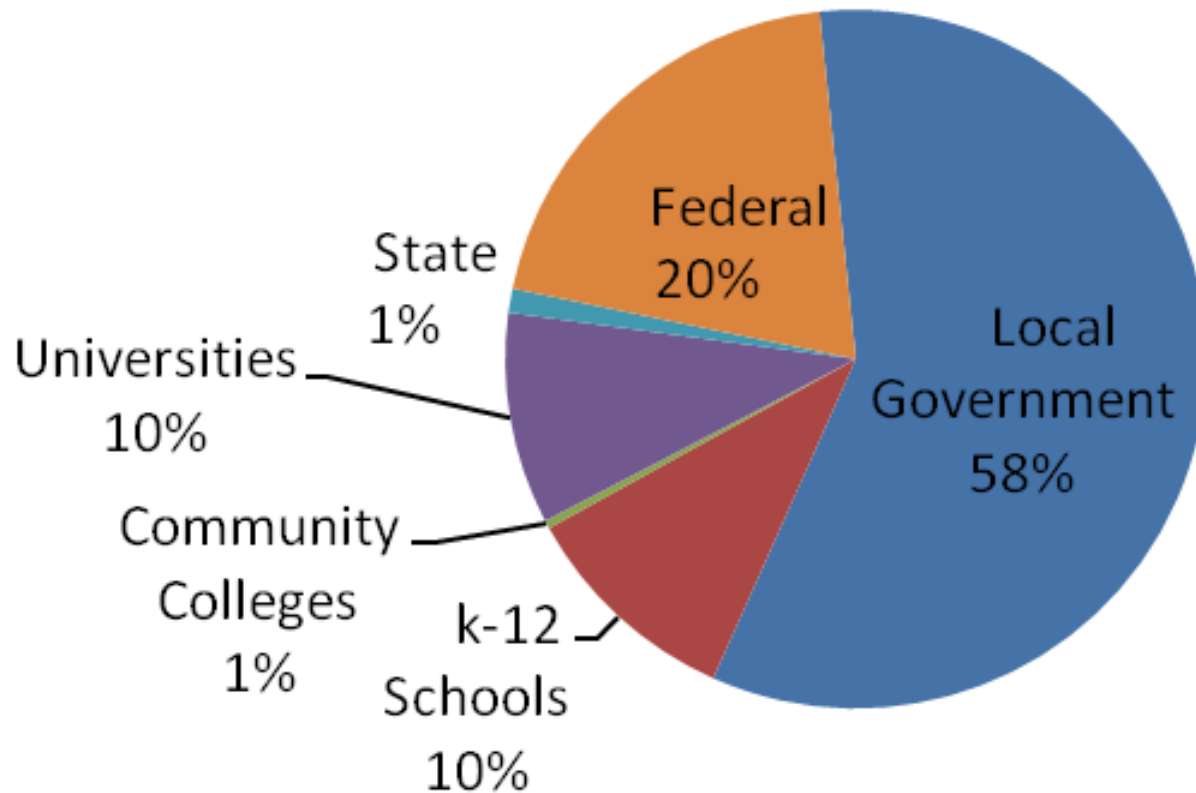
## ▶ **Technical Assistance (~5%)**

- Commercial Bldg Assessments
- Design Assistance
- Large Customer Management Practices Assessments

## ▶ **Education & Training (~5%)**

- Building Codes
- Building Operators/Owners
- Design/Construction and HVAC Replacement Industry

# Percent of MWh by Public Category



# *DCEO's Energy Efficiency Public Sector Programs*

- ▶ **Standard**: set incentives for specific lighting, HVAC, motors, and refrigeration equipment that are energy efficient
- ▶ **Custom**: an incentive of 7 cents/kWh saved for measures that are not standard
- ▶ **New Construction**: new construction incentive to build beyond code (\$0.20-\$1.00/sq. ft. or 5 cents/kWh)
- ▶ **Retro-Commissioning**: identify and implement low cost tune-ups and adjustments to existing building operating systems

# ***DCEO Incentive Levels***

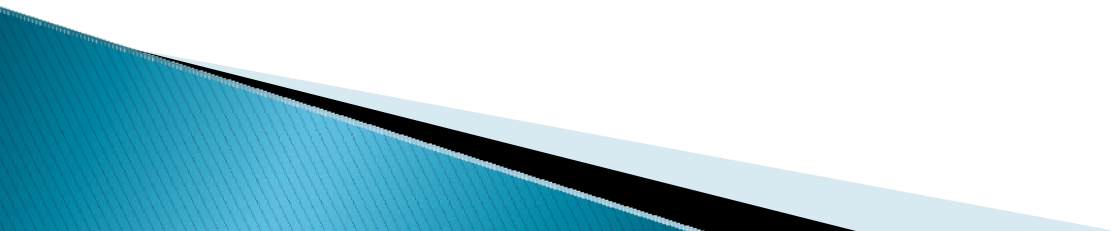
## **Standard**

- ▶ Set incentives for a standard list of equipment upgrades

## **Custom**

- ▶ 7 cents/kWh for measures with 1-7 year payback

## **Caps**

- ▶ \$100,000 per program year (June to May)
  - ▶  $\leq 100\%$  of Incremental Measure Costs (added cost of increasing efficiency beyond standard replacement option)
  - ▶  $\leq 50\%$  of Total Project Costs
- 

# Public Sector Projects

Type of Project	No. of Applications
Lighting	
Retrofit Lighting	63
New Lighting	41
Exit Signs	38
Occupancy Sensors	20
Delamping	11
LED Traffic Signals	14
CFLs	14
HVAC	
AC Equipment	4
Variable Speed Drive	12
Motors	3
Custom	12

# *Application Submittal*

- ▶ On-line: [www.illinoisenergy.org](http://www.illinoisenergy.org) (to download applications)
- ▶ E-mail: [illinois.energy@illinois.gov](mailto:illinois.energy@illinois.gov)
- ▶ Fax: (217)785-2618
- ▶ Mail: Illinois Department of Commerce and Economic Opportunity  
Bureau of Energy and Recycling  
Attn: PSEE  
620 East Adams Street  
Springfield, IL 62701

# Renewable Energy Resources Program

- ▶ **Solar Energy Rebate Program:** provides a rebate of 30 percent of eligible project costs up to \$10,000 related to a solar thermal or solar photovoltaic system installation
- ▶ **Solar Energy Incentive Program:** provides grants for solar thermal systems or certain photovoltaic installations over \$50,000 in total cost
- ▶ **Renewable Energy Business Development Program:** grants to develop renewable energy businesses and component manufacturers
- ▶ **Biogas and Biogas-to-Energy Program:** provides grants for feasibility studies and purchase and installation of equipment that uses biogas or biomass to produce electricity or heat



# ***DCEO Program Contacts***

- ▶ **Standard Incentive Program**
  - Andrea Reiff 217-785-0164
- ▶ **Custom, New Construction Incentive Programs**
  - Tom Coe 217-785-2433
- ▶ **Outreach & Marketing**
  - Carol Kulek 217-785-3412
- ▶ **Renewable Energy Programs**
  - Wayne Hartel 217-785-3420
- ▶ **Energy Programs & Policy**
  - David Baker 217-785-5222

Or e-mail at [Illinois.energy@illinois.gov](mailto:Illinois.energy@illinois.gov)

# 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

- ▶ Building 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
- ▶ To apply for FREE assistance: Call 1-800-214-7954 or visit [www.sedac.org](http://www.sedac.org) to download application or apply on line



# *DCEO's Energy Performance Contracting (EPC)*

- ▶ Energy performance contracting redirects energy, water and operations & maintenance savings to amortize building improvements without up-front costs. Performance and savings are guaranteed over term of contract
- ▶ DCEO provides no cost technical assistance and advice that includes:
  - Boilerplate documents:
    - Request for Proposal
    - Energy Audit Agreement
    - Energy Service Agreement
- ▶ Measurement and Verification Assistance

# ***DCEO Training and Education Programs***

## **Lights for Learning**

- ❑ A unique educational opportunity for Illinois students to earn money for their school or organization by selling money saving, energy efficient Compact Fluorescent Light bulbs (CFLs)
- ❑ Participating schools keep 50% of the proceeds
- ❑ Presentations are provided to educate students and their community about the environmental and financial benefits of using CFLs

For information: [www.mwalliance.org](http://www.mwalliance.org)

# Key Web Links

Link	Information
<a href="http://www.illinoisenergy.org">www.illinoisenergy.org</a>	DCEO Energy Programs: guidelines, RFPs, contacts, applications, and other resources
<a href="http://www.ActOnEnergy.net">www.ActOnEnergy.net</a>	Info on Ameren ActOnEnergy Business Programs
<a href="http://www.ComEd.com">www.ComEd.com</a>	Info on ComEd Smart Ideas Business Solutions Programs
<a href="http://www.ileeps.org">www.ileeps.org</a>	EEPS Information for DCEO, ComEd and Ameren EEPS programs
<a href="http://www.sedac.org">www.sedac.org</a>	Smart Energy Design Assistance Center: Technical assistance for businesses and public sector providing energy information, news and trainings, energy service provider list
<a href="http://www.illinoisrecycles.com">www.illinoisrecycles.com</a>	DCEO Recycling Programs for local government, businesses, non-profits K-12 schools and universities
<a href="http://www.illinoiscleanenergy.org">www.illinoiscleanenergy.org</a>	IL Clean Energy Community Foundation: grants for energy efficiency, renewable energy and natural areas for local government and non-profits

# Contact Information

David Baker

Manager, Energy Efficiency/Energy Policy

Bureau of Energy and Recycling

217-785-5222

[david.s.baker@illinois.gov](mailto:david.s.baker@illinois.gov)