



DCEO ILLINOIS ENERGY NOW

ILLINOIS ENERGY NOW 4TH QUARTERLY REPORT

DCEO Energy & Recycling Office

SAG Meeting | July 2015



Illinois
Department of Commerce
& Economic Opportunity

Pat Quinn, Governor

PROGRAM PARTNERS



Illinois
Department of Commerce
& Economic Opportunity

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Illinois Energy Now | 1-800-214-7954 | www.ILenergynow.org

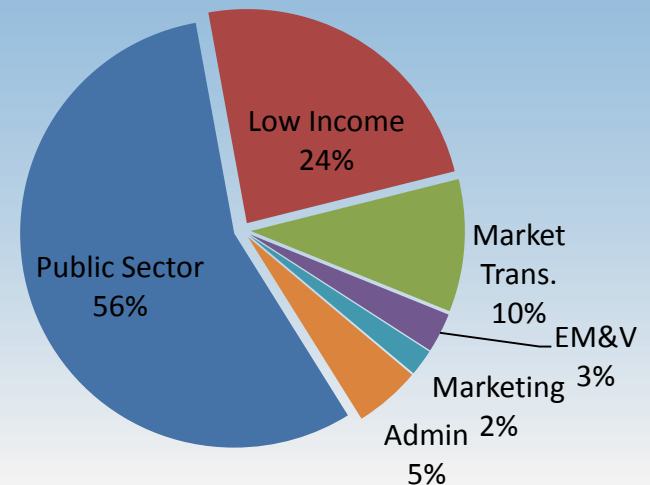
ILLINOIS ENERGY NOW GOALS & BUDGETS FOR 2014-2015

Energy savings goals:

- ⦿ Electricity: Est. 104.2 M kWh of 141.5 M kWh Goal (73%)
- ⦿ Natural gas: Est. 4.9 M therms of 5.2M therms Goal (94%)

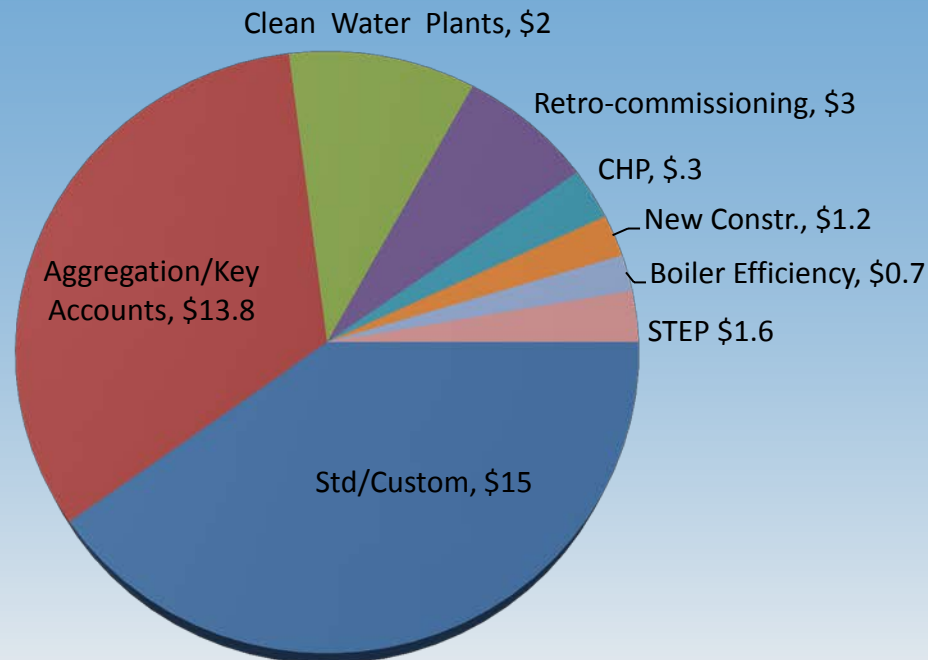
Program spending/budget:

- ⦿ Electricity 91%: \$49.2 M/\$54.1 M
- ⦿ Natural gas 88%: \$19.2M/\$21.7 M

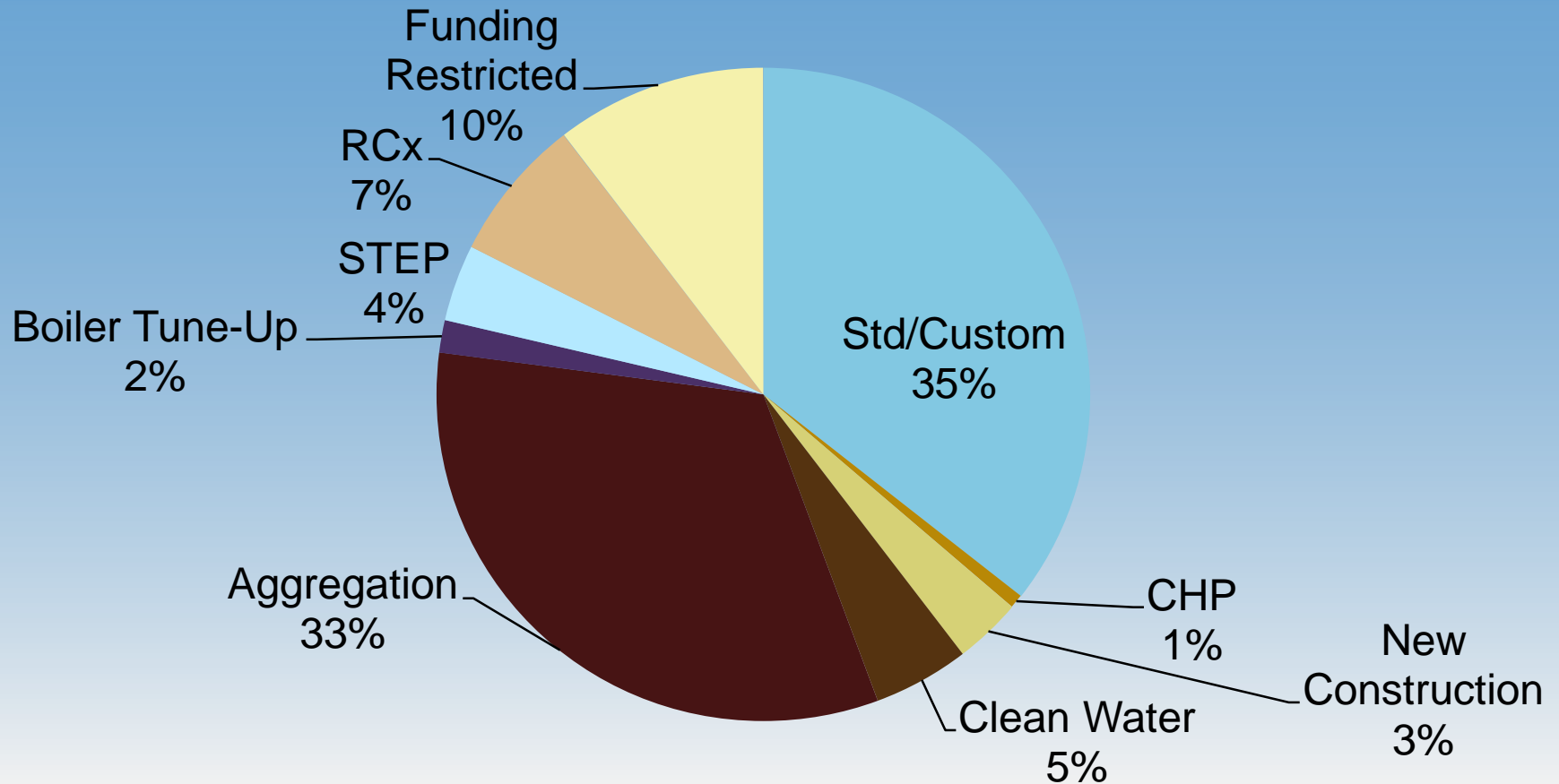


PUBLIC SECTOR PROGRAMS

Public Sector Obligations (\$ M)

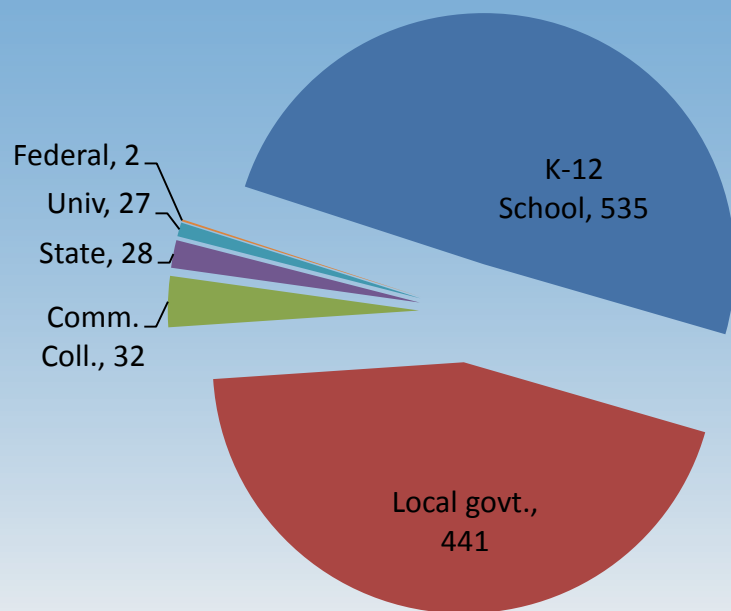


PUBLIC SECTOR PROGRAMS

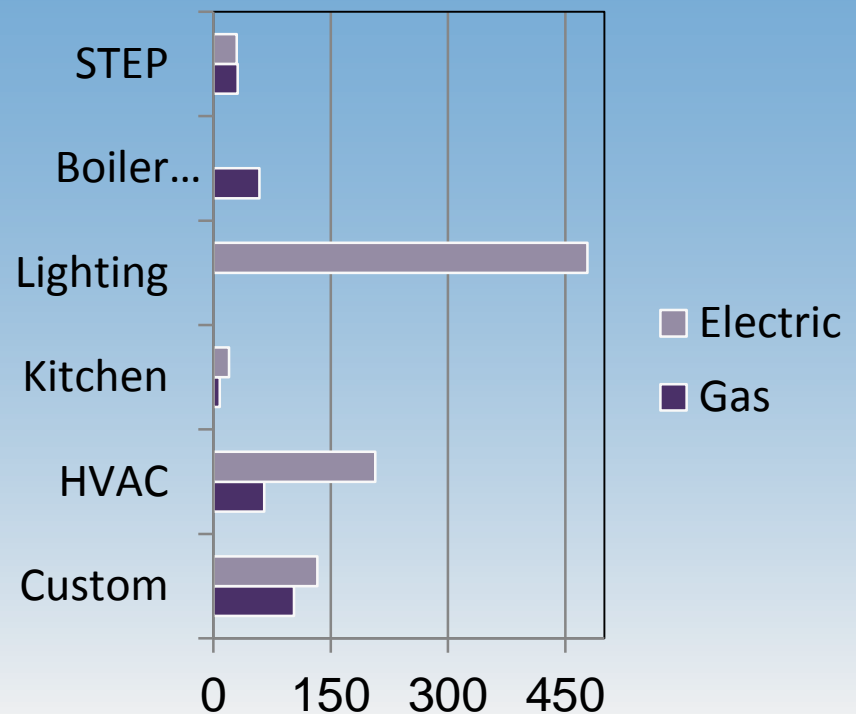


NUMBER OF PUBLIC SECTOR PROJECTS BY TYPE

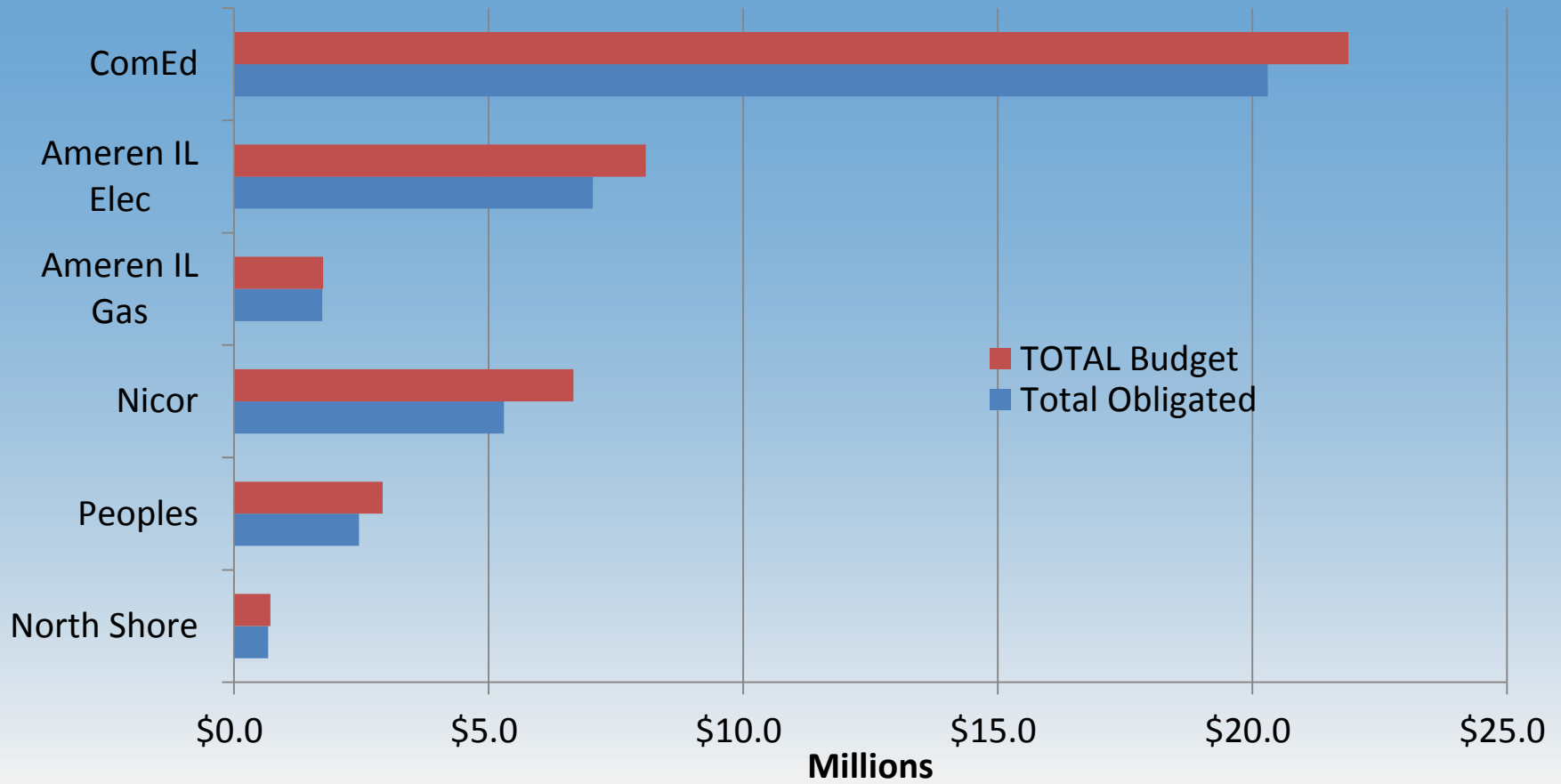
BY GOVERNMENTAL TYPE



BY MEASURE TYPE



PUBLIC SECTOR PROGRAMS BY UTILITY TERRITORY



ILLINOIS ENERGY NOW PUBLIC SECTOR PROGRAMS AFFECTED BY STATE FREEZE

Standard, Custom, and New Construction Rebates:

- Funding was frozen in January which severely hampered DCEO's ability to complete applications.
- Projects that were held due to frozen funding:
 - Public Sector Rebates: 75 projects, \$1.5M; Ameren Electric 63 alone, NICOR and Peoples were also affected in this category
 - CHP: \$537,752 in ComEd (savings not attributable first year)
 - WWT: \$343,492 in ComEd
 - New Construction: \$306,483 mostly ComEd
- Resulting in loss of energy savings able to be reported:
 - WWT lost 1,339,587 kWh savings
 - Public Sector Rebates savings loss potential up to 2M kWh



NEW CONSTRUCTION PROGRAM

- **22 buildings were evaluated in PY7**
- **19 buildings submitted completed applications in PY7**
- **14 buildings received incentives of \$1,189,179
saving 1,274,900 KWH and 201,079 Therms**



RETRO-COMMISSIONING

- **\$3 M budget**
- **Identified savings – 19 M kWh; 2.4 M therms**
- **Planning/audit stage – 30 projects**
- **Verification stage – 34 projects**
- **Mini-RCx – 9 projects**
- **RCx dashboards – 14 live, 2 installations underway**



CLEAN WATER ENERGY EFFICIENCY INITIATIVE

- **The program is designed to complement Federal and State Clean Water Initiatives by enticing water and waste water treatment facilities to invest in newer energy efficient technology when updating their current facilities**
- **Offers enhanced incentive for high efficiency aeration systems, including high efficiency blowers, aeration diffusers and controls**
- **PY7 - 13 applications, 8 projects funded**
- **Energy savings were over 6,400,000 kWh**



COMBINED HEAT AND POWER PROGRAM PY7-PY9

- **Received 17 applications; funded Argonne, O'Hare airport, 3 water treatment plants, College of DuPage, Niles West High School have asked to delay funding**
- **Budgeted \$11.2 M in incentives over three years; \$6.4 M**
- **Incentives offered in three phases – design, construction, and production**
- **13.7 MW of CHP generating capacity savings are not realized during the first year**
- **Annual Electric savings 94 MW; Annual Natural Gas Savings 1.7 M therms**



SAVINGS THROUGH EFFICIENT PRODUCTS

STEP offers free, easy-install products to new Illinois Energy Now customers

- Low-flow Faucet Aerators (unlimited)
- Low-flow Showerheads (unlimited)
- Kitchen Pre-rinse Green Nozzles (unlimited)
- CFLs (40 maximum)
- LED Exit Signs (50 maximum)
- Vending Machine Controls (10 maximum)
- Occupancy Sensors (60 maximum)
- Outdoor LEDs (30 maximum)

► Process

- Engineer leads facility walkthrough
- Facility installs the free products and submits verification
- MEEA connect facilities to additional rebates, programs and educational opportunities.



	PY7
Facilities	76 completed, 150 projected
kWh Saved	2.2 M kWh projected
Therms Saved	130,000 projected



STEP
Savings Through Efficient Products
Partnering with Public Facilities to Reduce Energy Use



SEDAC DESIGN ASSISTANCE

Services Provided	
Initial Consult/Quick Advice	451
Energy Assessments	255
Design Assistance Report	143
Implementation Assistance	49
Potential Energy Savings from Recommendations	
Therms/Year	5,715,181
kWh/Year	73,602,860
mBtu/Year	822,651
\$ Savings/Year	\$ 9,697,740
Implemented Energy Savings from Prior Recommendations	
Therms/Year	1,403,477
kWh/Year	32,006,031
mBtu/Year	249,562
\$ Savings/Year	\$ 3,580,107

Key SEDAC Support

- Design IEN Branding Materials
- Website Maintenance: www.sedac.org
- Maintain IEN Program Phone: 800-214-7954
- Jobs Creation Study
- Cost Effectiveness Study
- EM&V Assistance and Review
- Quarterly Implementation Success Reports



SEDAC TRAINING AND COMMUNICATIONS

Training, Outreach and IEN Support		
Type	Quantity	# Attendees
Presentations	43	3938
Workshops & Trainings	12	827
Conferences	41	>5,600
Meetings	69	NA

Marketing and Communications	
IEN Site Verification Visits	85
Marketing Materials	13
Contact List	11,797
Fact Sheets and Case Studies	11
Newsletter	12



AGGREGATION / KEY ACCOUNTS PROJECTS

Aggregation	Project Description
Metropolitan Mayors Caucus	Municipal projects in Chicago area
UIC Energy Resources Center	Natural Gas Boiler Tune-Up Program; Illinois Department of Corrections
Midwest Energy Efficiency Alliance (MEEA)	Savings Through Efficient Products (STEP) program and data center pilot program
IL Green Economy Network (IGEN)	Community College (outdoor lighting)
Key Accounts	Project Description
Chicago Public Schools	Chicago Public Schools
University of Illinois at Chicago	UIC

Requested:

\$21.7 M

Funded:

\$14.6 M



LOW INCOME PROGRAMS

- **Budgets based on share paid by households <150% of poverty;**
- **Programs targeted up to 80% of Area Median Income (80 AMI)**
 - **Energy Efficient Affordable Housing Construction – new and gut rehab**
 - **Energy Efficient Residential Retrofit**
 - **Energy Savers Multi-family Program – audits, retrofit, assistance in finding financing**
 - **Efficient Living Public Housing Authority Program**



ENERGY EFFICIENT AFFORDABLE HOUSING CONSTRUCTION PROGRAM

- Available funds - \$5 million
- PY 7 obligations \$4.4 million, with \$1.5 million in potential additional projects

Number of Housing Units

Housing Type	Completed Projects	Continuing Projects	New Projects	TOTAL
New MF	954	676	588	2,218
New SF	181	63	83	327
Gut Rehab MF	25	494	250	769
Gut Rehab SF	10	-	-	10
TOTAL	1,170	1,233	921	3,324

Number of Projects

Housing Type	Completed Projects	Continuing Projects	New Projects	TOTAL
New MF	14	14	9	37
New SF	6	4	3	13
Gut Rehab MF	2	5	2	9
Gut Rehab SF	1	-	-	1
TOTAL	23	23	14	60



RESIDENTIAL RETROFIT

- **32 applications requested \$13.1 million**
- **Available funds - \$9 million**
- **Funded projects:**
 - **LIHEAP Home Weatherization Assistance - \$4.5M**
 - **Energy Savers Multi-family Program (Elevate Energy)**
 - **Chicago Bungalow Association**
 - **Hispanic Housing, City of Springfield, Black United Fund**
 - **Completed: Neumann Family Services, Residential Options, Affordable Housing**



PUBLIC HOUSING AUTHORITY PROGRAM

- **Public Housing Authority Efficient Living Program**
 - Available funds - \$4 million
 - Administered by UIUC Building Research Council
 - Working with 10 PHAs in Ameren IL territories
 - Working with 14 PHAs in ComEd, 4 Nicor, 1 North Shore, and 2 Peoples
- **Received MEEA Inspiring Energy Efficiency Award**



BUILDING INDUSTRY TRAINING & EDUCATION (BITE) PROGRAM

- **25 applications requested \$9.5 M**
- **Available funds - \$3.5 M**
- **Approved 10 projects/programs, including:**
 - **Energy Efficiency Building Codes Training**
 - **Building Operator Certification**
 - **Illinois Home Performance**
 - **Lights for Learning**
 - **Trade Ally Program**
 - **Application Assistance – Public Sector & Low Income**
 - **Community College Energy Management**



TRADE ALLY PROGRAM

- **Hosted three Trade Ally rallies, 600 attendees**
- **Maintain 450 Trade Allies**
- **Held two Trade Shows with 450 attendees**
- **U of I, ERC offers program support for operating Trade Ally program**



DATA CENTER PROGRAM

ENERGY STUDY AND ROADMAPS

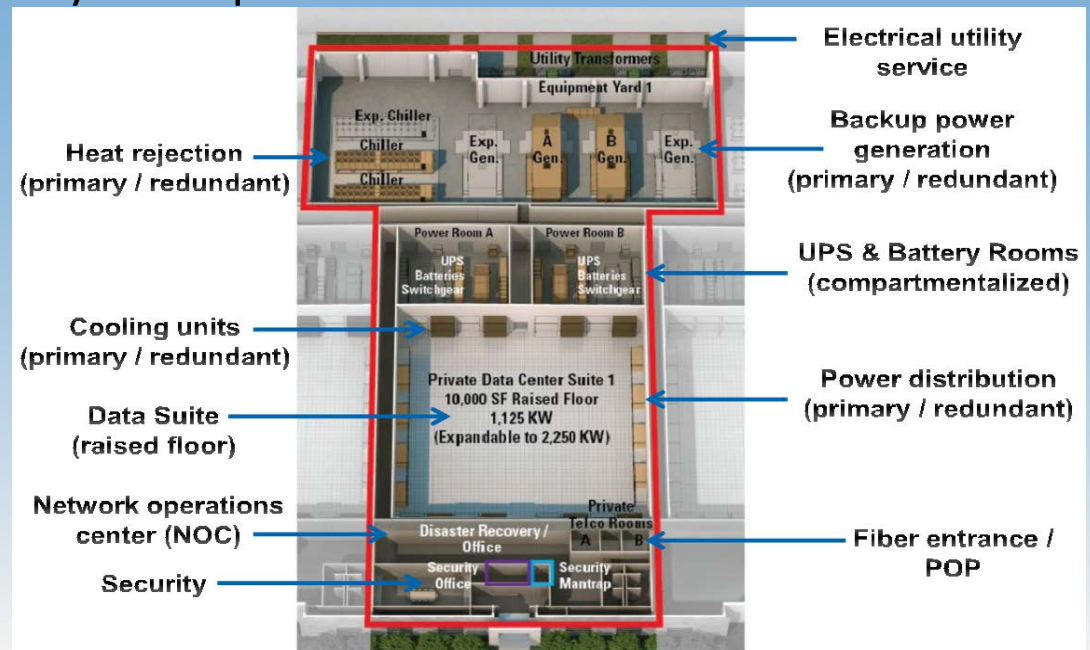
- Hines VA Hospital Information Technology Center, Hines
- Argonne National Laboratory Building 221 North Data Center,
- City of Chicago, Public Safety Headquarters Data Center

AC GUIDANCE

- Arlington Heights School District 25

Data Center Reports prepared by

Willdan Energy Solutions





BUILDING OPERATOR CERTIFICATION



Building Operator Certification (BOC) is a nationally recognized training and certification program focusing on energy efficient building operations and preventative maintenance procedures. Facilities with BOC graduates are proven to save energy, have lower energy bills, and offer an improved comfort for occupants.

The **BOC Veterans Program** seeks to reduce unemployment among Illinois veterans and achieve energy and cost savings for Illinois through BOC training and certification, mentoring and job placement assistance.

Trained 122 individuals including 5 Veterans.



ILLINOIS ENERGY CODES TRAINING

The collage features several promotional materials for the DCEO Illinois Energy Now program. Key elements include:

- Free Training Flyers:** Multiple flyers titled "FREE Training" and "Illinois Energy Conservation Code" offering workshops on topics like HVAC load calculations, energy modeling, and code compliance. These are scheduled for various dates in 2014 across different locations like Rock Valley College, DuSable Community College, and the City of Lake Forest.
- Code Updates:** Information regarding the 2012 IECC Effective January 1, 2015, and the 2013 IECC Effective January 1, 2015, highlighting new requirements and the importance of staying up-to-date.
- Technical Assistance:** Flyers and documents detailing the availability of technical assistance for code officials, contractors, and homeowners, including contact information for the Illinois Department of Commerce & Economic Opportunity.
- Game On! Commercial Energy Modeling:** A flyer promoting a game-based training module for commercial energy modeling.
- Residential HVAC Load Calculations:** A flyer specifically targeting residential HVAC load calculations with a 10% discount on training fees.

- Trained 878 Code Officials, Contractors, Architects, Engineers & Homeowners
- Customized 2 publications, "SUCCESS WITH 2012 IECC ILLINOIS" for both Code Officials and for Builders & Trades
- Provided 374 technical assistance answers and code interpretations statewide
- Provided 63 hours consultative technical assistance to the City of Chicago update of their building energy code
- Provided 82 hours technical assistance to the IL Energy Conservation Advisory Council
- Expanded FAQs at www.ildceo.net/energycode website





LIGHTS FOR LEARNING®

L4L is a K-12 education and fundraising program for Illinois youth. Organizations can:

- Host a free energy efficiency educational presentation
- Host a free, high-yield efficient lighting fundraiser
- Maximize the learning and earning by hosting both

Fundraisers promoted CFLs, LEDs & energy efficient products

- Students became EE educators
- Free presentations focused on:
 - Basic energy literacy
 - Energy-saving products
 - Home energy conservation



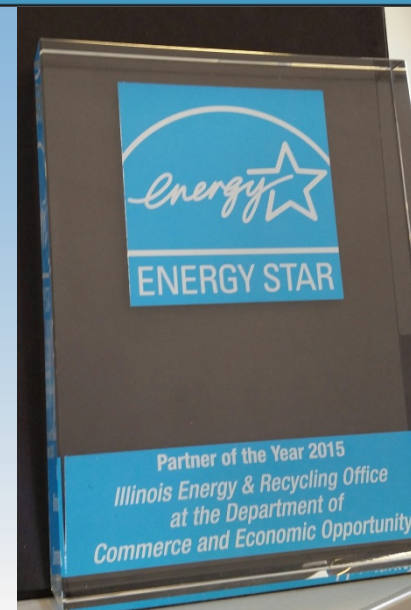
	PY7
Youth Educated	22,262
Items Sold	1,856
kWh Saved	51,359



ILLINOIS HOME PERFORMANCE WITH ENERGY STAR®

PY7 (2014-15)

- Awarded 50 Gold Certificates and 1,679 Silver Certificates totaling 110 Gold and 5,488 Silver for entire history of program
- Over 60 IHP Participating Contractors completing projects
- One Participating Contractor won U.S. DOE Housing Innovation Award
- 6 Illinois Home Performance Participating Contractors received Home Performance with ENERGY STAR 2014 Century Club Awards
- 7 Active Program Providers:
 - Ameren Illinois ActOnEnergy, ComEd Smart Ideas, Corn Belt Energy, Delta Weatherization Energy Efficiency Program, Energy Impact Illinois, Historic Chicago Bungalow Association, Nicor Gas energySMART
- Building Science Training Series trained 251 contractor and 199 real estate agents this year
- Awarded 34 BPI certification rebates
- Recognized with U.S. DOE's 2015 Energy Star Partner of the Year Award for second consecutive year
- Maintained active Building Science Hotline (866-395-1032)





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