



# ILLINOIS ENERGY NOW

## TECHNICAL AND APPLICATION ASSISTANCE

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O'Fallon Trade Ally Workshop 10/03/2016



# TECHNICAL AND APPLICATION ASSISTANCE

- Building design review and consultation
- Energy Performance Contracting
- ILLINOIS ENERGY NOW Incentive Application support
- Assistance with other Grant and Rebate Applications



# STANDARD/CUSTOM INCENTIVE PROGRAMS PUBLIC SECTOR

## Standard

- Efficient Lighting
- Boilers, Chillers, Furnaces, Air Conditioners
- HVAC Equipment Tune-Up
- Variable Speed Drives
- Programmable Thermostats

**\$/Item installed**

## Custom

- Any other project that will save energy

*If there is a standard incentive and you think your situation is saves more energy than normal inquire about a custom incentive*

**\$/kWh saved and \$/therm saved**

**The objective is to help pay down the cost of using high performance equipment. NOT to pay for it entirely!**



# OTHER FUNDING OPPORTUNITIES

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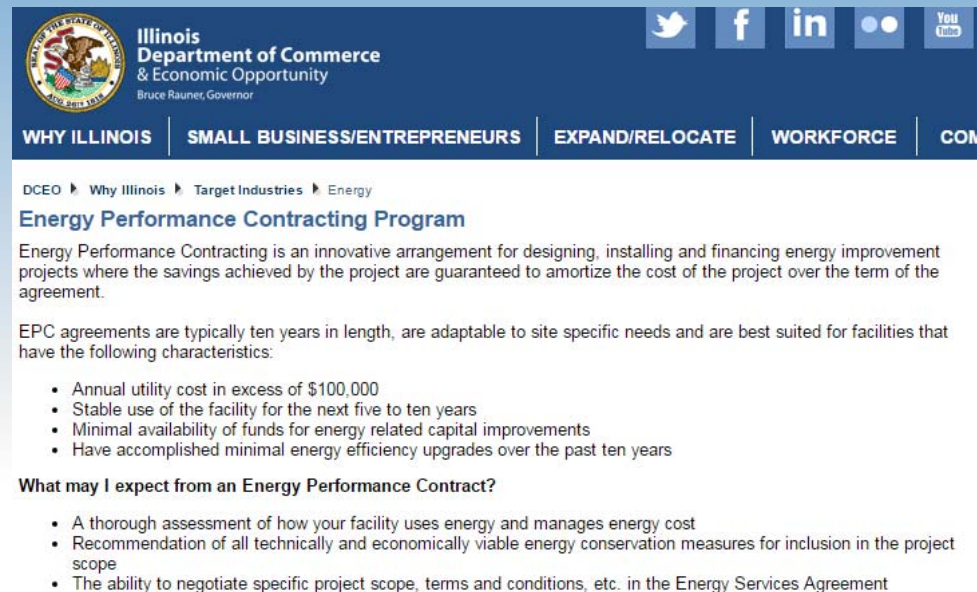
- **Non-EEPs Incentives** – IMEA for municipalities and coops
- **Illinois Clean Energy Community Foundation (ICECF)** – programs for gov't buildings, non-profit community centers, and non-EEPs. Lighting, innovative energy, green buildings, design and commissioning, and more!
- **Illinois State Board of Education (ISBE)** – Illinois School Board Association Energy Efficiency Grants. DCEO may provide matching grant up to \$250,000
- **Illinois Association of County Board Members (IACBM)** – free application assistance to Public Sector
- **Metropolitan Mayors Caucus (MMC)** – direct incentives and help with purchasing for local governments in the Chicago-area and collar counties
- **Performance Contracting** – assistance with RFPs and contracting
- **DSIREUSA.org** – website listing all known energy programs by state



# ENERGY PERFORMANCE CONTRACTING

EPC agreements are typically 15-20 years in length, are adaptable to site specific needs and are best suited for facilities that have the following characteristics:

- Annual utility cost in excess of \$100,000
- Stable use of the facility for the next ten years
- Limited availability of funds for energy related capital improvements
- Have accomplished minimal energy efficiency upgrades over the past five years



The screenshot shows the Illinois Department of Commerce & Economic Opportunity website. The header includes the state seal, the department name, and Governor Bruce Rauner's name. Navigation links include 'WHY ILLINOIS', 'SMALL BUSINESS/ENTREPRENEURS', 'EXPAND/RELOCATE', 'WORKFORCE', and 'COM'. The main content area is titled 'Energy Performance Contracting Program' and includes a description of the program, a list of characteristics for facilities suitable for EPC, and a section titled 'What may I expect from an Energy Performance Contract?' with a list of expected outcomes.

Illinois Department of Commerce & Economic Opportunity  
Bruce Rauner, Governor

WHY ILLINOIS | SMALL BUSINESS/ENTREPRENEURS | EXPAND/RELOCATE | WORKFORCE | COM

DCEO > Why Illinois > Target Industries > Energy

### Energy Performance Contracting Program

Energy Performance Contracting is an innovative arrangement for designing, installing and financing energy improvement projects where the savings achieved by the project are guaranteed to amortize the cost of the project over the term of the agreement.

EPC agreements are typically ten years in length, are adaptable to site specific needs and are best suited for facilities that have the following characteristics:

- Annual utility cost in excess of \$100,000
- Stable use of the facility for the next five to ten years
- Minimal availability of funds for energy related capital improvements
- Have accomplished minimal energy efficiency upgrades over the past ten years

**What may I expect from an Energy Performance Contract?**

- A thorough assessment of how your facility uses energy and manages energy cost
- Recommendation of all technically and economically viable energy conservation measures for inclusion in the project scope
- The ability to negotiate specific project scope, terms and conditions, etc. in the Energy Services Agreement



# ENERGY PERFORMANCE CONTRACTING

## ENERGY PERFORMANCE CONTRACTING

IEN supports the Energy Performance Contracting Program, which provides assistance to the public and non-profit sectors in the state in setting up performance contracting to implement energy efficiency projects. Assistance provided can include review of project scope, RFQ development, managing the bidding process and contract review.

The Program has assisted various public sector participants over the past twelve years and has developed sample documents that reduce or eliminate the need to "recreate the wheel" in developing successful energy performance projects.

*"The EPC program has allowed us to implement large scale capital improvements projects at our largest energy intensive facilities in an effort to meet energy, water, and greenhouse gas emission reduction goals and provide a healthier working environment for County staff"*

*Tony Dover, Energy Manager, Cook County Government Bureau of Asset Management*

Project Costs: \$496,437,000

Annual Savings Value: \$30,152,000

Annual kWh Savings: 374,949,000

Annual Therm Savings: 9,454,000



Creating Programs that Provide Valuable Services



# EASTERN ILLINOIS UNIVERSITY EXAMPLE

Large-scale improvements –

- Chiller and cooling tower upgrades
- Adding buildings to the campus chilled water loop
- Retrocommissioning
- New Renewable Energy Center
- Decommissioning the old coal plant

Small-scale improvements – replacing incandescent light bulbs with fluorescents and replacing toilets, faucet aerators, showerheads, and washing machines with water-conserving fixtures



[http://www.eiu.edu/sustainability/eiu\\_contracts.php](http://www.eiu.edu/sustainability/eiu_contracts.php)

# EPC EXAMPLE

## Eastern IL Univ. Phase 2

**\$10,800,000**

Energy cost savings

\$1,888,911

Operational cost savings

\$ 31,398

Electricity savings

4,934,513 kWh

Gas savings

504,540 therms

Coal savings

127,467 mmBTU

Water savings

66,221,444 gallons

## Avoided Emissions

CO<sub>2</sub> 41,506,257 lbs.

SO<sub>2</sub> 150,950 lbs.

No<sub>x</sub> 52,407 lbs.





# EIU RENEWABLE ENERGY CENTER

- \$80m project to replace the rapidly failing 1928 coal-burning plant
- New combined woodchip, natural gas, and solar plant
- Two-stage high temperature gasification
- Back pressure turbine for electricity generation
- Expected to reduce CO2 by 80%
- First LEED Platinum power plant in country



# MORE ILLINOIS ENERGY NOW SPECIAL PROGRAMS

- Energy Efficiency Aggregation Program
- Application Assistance
- Savings Through Efficient Products (STEP)
- Natural Gas Boiler System Program
- Combined Heat and Power
- Energy Performance Contracting
- Low Income Incentive Programs/PHA
- Lights for Learning
- Waste Water Treatment Facilities
- Trade Ally Program
- And more!





**Illinois Energy Now | 800.214.7954**  
**[www.ILenergynow.org](http://www.ILenergynow.org)**