



**PUBLIC SECTOR
ENERGY EFFICIENCY PROGRAM**

**2014-2015
ELECTRIC AND NATURAL GAS**

PROGRAM GUIDELINES, APPLICATION, AND WORKSHEETS

**PROGRAM YEAR: 2014-2015
START DATE: JUNE 1, 2014**

**NEW CONSTRUCTION PROGRAM
FOR
LOCAL GOVERNMENT, PUBLIC SCHOOLS,
COMMUNITY COLLEGES, PUBLIC UNIVERSITIES,
AND STATE/FEDERAL FACILITIES**



**Illinois
Department of Commerce
& Economic Opportunity**

Pat Quinn, Governor
Adam Pollet, Director

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GUIDELINES

SECTION 1

GENERAL INFORMATION

1.1 Purpose. The Illinois Department of Commerce and Economic Opportunity (the “Department” or “DCEO”) administers the **Illinois Energy Now** (“IEN”) portfolio of programs to implement cost-effective energy efficiency measures that help meet annual energy savings targets. Implementing such measures will also enhance economic development in the state of Illinois through job creation and business development. The Public Sector New Construction Program (“Public Sector NC Program”) will, to the extent funds are available, provide incentives for projects that increase the energy efficiency of local governments, municipal corporations, public school districts, community college districts, public universities, and state/federal facilities located in the service territories of Ameren Illinois (“Ameren”), Commonwealth Edison (“ComEd”), Nicor Gas (“Nicor”), Peoples Gas (“Peoples”), and/or North Shore Gas (“North Shore”).

1.2 Authority and Funding. The Department is authorized by the Energy Efficiency Section of the Public Utilities Act (220 ILCS 5/8-103) and (220 ILCS 5/8-104) to administer a portion of the Illinois Energy Efficiency Portfolio (“EEP”). The statute provides funding for the EEP and sets certain statutory requirements to meet incremental annual energy savings goals; procure a minimum percentage of the portfolio from local governments, municipal corporations, public school districts, and community college districts; and target low income households proportionate to their share of annual utility revenues. The Public Sector NC Program is one component of the Department’s total portfolio of measures to meet its obligations under the Act. Funding levels are determined each year by the Department under a plan submitted to the Illinois Commerce Commission. The Department reserves the right to limit the total amount of funding for program incentives in any given fiscal year.

1.3 Definitions. The terms used in this document have the meanings set forth below. Words and terms not defined here, if defined in the Environmental Protection Act (415 ILCS 5), will have the meanings as defined therein.

“Act” means the Public Utilities Act.

“Applicant” means one of the following public entities, (i) a unit of local government, (ii) a municipal corporation, (iii) public school district, (iv) public community college district, (v) public universities, or (vi) State/Federal facilities:

- Proposing an electric energy efficiency project in Illinois that receives electric delivery service from Ameren or ComEd wires regardless of the retail electric supplier, or a private entity proposing an energy efficient new construction project in which one of the public entities above will lease the facility and will be responsible for paying for the electric delivery service from Ameren or ComEd regardless of the retail electric supplier.
- Proposing a natural gas energy efficiency project in Illinois that receives natural gas delivery service from Ameren, Nicor, Peoples, or North Shore distribution regardless of the retail natural gas supplier, or a private entity proposing an energy efficient new construction project in which one of the public entities above will lease the facility and will be responsible for paying for the gas delivery service from Ameren, Nicor, Peoples, or North Shore regardless of the retail gas supplier.

“Application” means a request for program funds by submitting the required information, on the Department’s approved forms and attachments as prescribed in these guidelines.

“Building Energy Model” means a modeling program and analysis that complies with the LEED-NC 2009 (or later version) Performance Rating Method criteria; or the Energy Policy Act of 2005 (EPAct 2005) Deduction for Energy Efficient Commercial Buildings (IRS Notice 2006-52), with or without adherence to ASHRAE 90.1-2010 Appendix G. The list of qualified software can be found at http://www1.eere.energy.gov/buildings/commercial/qualified_software.html

“100% Design” means final drawings for the building are complete and ready for bidding. Also called “100% Construction Documents.”

“Energy Efficiency” means measures that reduce the total Btus of electricity and natural gas needed to meet the end use or uses.

“Entity” means any applicant submitting an application to the Department.

SECTION 1

GENERAL INFORMATION (Continued)

“Final Application” means an application that is submitted after Project Completion Date that reflects the actual measures and equipment installed. It is used to determine the incentives paid.

“Grant Beginning Date” means the date the grant is signed and goes into effect.

“Grantee” means an entity that has been awarded a grant.

“Incentive” means a grant award or rebate. Incentives less than or equal to \$150,000 will be awarded as rebates, while those greater than \$150,000 will be processed as grants.

“Incremental Measure Cost” means the increased equipment cost of upgrading to energy efficient equipment. For new equipment, the incremental measure cost is the cost to purchase and install the energy efficiency equipment minus the cost to purchase and install equipment that meets minimum codes or standards.

“Performance Period” means the length of time the Grantee is required to operate the project and submit information/data to the Department.

“Pre-approval application” means an application for incentives that reflects the estimated number of various measures to be installed, given the best information at the time of the application. It is used to reserve funds for projects and to assure that the calculations and methodology used to estimate the energy impacts meet the program requirements.

“Project” means an eligible energy project that the Department agrees to fund through the program.

“Project Completion Date” means the date that all necessary procurement is complete, equipment is installed and operational. The project completion date may not exceed nine months after the grant beginning date unless an alternative schedule has been approved by the Department. Often called “Date of Substantial Completion” or “Certificate of Occupancy.”

“Total Project Cost” means the cost to purchase and install the qualifying measures including labor costs.

SECTION 2

ELIGIBILITY CRITERIA

2.1 Project Location. Eligibility is limited to projects physically located in the state of Illinois.

2.2 Customer of Participating Utility Requirement.

- Project locations for those requesting incentives for electric measures must receive electric delivery services from Ameren or ComEd. Applicants will be required to submit documentation that the project is located in the Ameren or ComEd electric service territory, in the form of a current utility bill or letter from their utility.
- Project locations for those requesting incentives for natural gas measures must receive natural gas delivery service from Ameren, Nicor, Peoples, or North Shore. Applicants will be required to submit documentation that the project is located in the Ameren, Nicor, Peoples or North Shore gas service territory, in the form of a current utility bill or letter from their utility.
- Project locations that receive either electric delivery service or gas delivery service (but not both) from a participating utility are only eligible for electric or gas incentives (but not both), determined by which energy type (electric or gas) is provided by the participating utility.

2.3 Eligible Projects/Equipment. Eligibility is limited to new construction projects or additions and renovations that exceed 15,000 square feet that produce electrical and or natural gas savings through efficiency improvements in buildings, equipment, or process. **Note: Applicants are encouraged to contact the DCEO project manager.**

Projects less than 15,000 sf may use the Standard Incentive Program through DCEO.

- A. Applicants must be a unit of local government, a municipal corporation, a public school district, a community college district, a public university or a state/federal facility located within the state of Illinois or a private entity proposing an energy efficient new construction project in which one of the public entities listed above will lease the facility and will be responsible for paying for the energy delivery service.
- B. Remanufactured equipment must have a warranty that meets or exceeds OEM warranty. Documentation must be submitted with application.
- C. The application must be for eligible equipment purchased or installed prior to June 1, 2015 and after May 31, 2014.
- D. The application may include prior incurred costs or installation of equipment prior to June 1, 2014, with written permission, which may take the form of a Notice to Proceed or Grant issued during the previous program year.
- E. Pre-approval applications are accepted at or after 100% Design Document completion.
- F. Applicant must submit the information as documented in Application Document.
- G. Prescriptive Incentive applicants must complete Appendix A.
- H. Custom Incentive applicants must complete Appendix B.
- I. Process load efficiency improvements must be calculated separately. This shall follow the LEED exceptional calculation process (www.usgbc.org).

2.4 Ineligible Projects and Costs. The following projects are not eligible for funding under these guidelines:

- A. Projects that repair or replace existing equipment with like equipment.
- B. Projects for sole purpose of implementing demand response measures which do not reduce overall energy use.
- C. Projects receiving funding for the same equipment through any other Energy Efficiency Portfolio (EEP) programs offered by the Department or Utilities (Ameren, ComEd, Nicor, Peoples, or North Shore).
- D. Component projects with simple paybacks greater than the equipment life.
- E. Used equipment.
- F. Renewable energy measures, except solar light tubes.
- G. Linear LED lamp retrofits for fluorescent fixtures.

2.5 Breakthrough Equipment and Devices. No more than 3 percent of Illinois Energy Now funds shall be expended on breakthrough equipment and devices. The Department reserves the right to negotiate incentive amounts.

Cold Cathode, Induction and LED Fixtures. All LED fixtures shall be certified by [Design Lights Consortium](#). Linear LED lamp retrofits for fluorescent fixtures are not eligible. Exterior wall packs are excluded from breakthrough incentive, but are eligible for incentives under the New Construction Prescriptive Program Lighting Measure or under the New Construction Custom Program.

- i. The Department shall provide an incentive of \$0.60 per reduced watt for interior Cold Cathode, Induction and LED fixtures.

- ii. The Department shall provide an incentive of \$1.30 per reduced watt for exterior Cold Cathode, Induction and LED fixtures operated less than or equal to 4,380 hours per year.
- iii. The Department shall provide an incentive of \$0.30 per reduced kilowatt-hour for exterior Cold Cathode, Induction and LED fixtures operated for greater than 4,380 hours per year with submission of detailed operating schedule.

2.6 The Department reserves the right to modify the incentive amounts as needed to fulfill its EEP statutory requirements or based on current market development, technology development, evaluation, measurement and verification (EM&V) results and program implementation experience. The Director reserves the right to waive funding limitations and other program parameters. The Director has the authority to implement pilot projects under these Guidelines. Cold cathode lighting projects will be evaluated to determine savings and based on the results DCEO reserves the right to adjust the incentive.

SECTION 3

PROGRAM INFORMATION

3.1 Prescriptive New Construction Incentives Program

- 3.1.1 **Program Scope.** Incentives based on energy efficient measures. The incentives are based on exceeding the current Illinois Energy Conservation Code for Commercial Buildings. This is to encourage applicants to design the building to achieve the greatest level of energy efficiency. DCEO reserves the right to negotiate different incentive levels if the applicant is under rules that already require beyond code achievement.
- 3.1.2 **Lighting Measures.** The incentives for Lighting Measures are as set forth in Appendix A, Section 1. Lighting Measures (LPD Reduction Incentives) encourages the inclusion or installation of lighting designs and equipment that provide quality lighting at lower installed wattage. The incentive for reducing LPD is calculated on a per square foot (SF) basis for overall LPD performance.

Lighting Measures		
Interior Lighting	\$0.30	Per watt/sf Reduced

- 3.1.3 **Envelope Measures.** The incentives for Envelope Measures are as set forth in Appendix A, Section 2. Funding is available for exceeding code requirements for the thermal envelope of the building based on the square footage of surface.

Envelope Measures		
Roof	\$0.08 / sf	Per Improved R-Value*
Walls	\$0.10 / sf	Per Improved R-Value*
Opaque Doors	\$2.00 / sf	Per Improved R-Value*
Windows & Skylights	\$5.00 / sf	Per Improved R-Value*, **
	\$5.00 / sf	Per Improved SHGC

* Total effective R-Value

** Convert window U-Factor to R-Value for calculation

- 3.1.4 **Mechanical Measures.** The incentives for Mechanical Measures are as set forth in Appendix A, Section 3. The efficient HVAC equipment incentive encourages designers to select energy efficient mechanical systems. The energy performance of select equipment must meet or exceed the requirements shown below.

Electric Equipment Type	Incentive	Qualifying Equipment	Size Category
Unitary and Split System Air Conditioning and Air Source Heat Pumps	\$83 per Ton	≥ 15 SEER	< 65,000 Btuh (5.4 tons)
	\$83 per Ton	≥ 12 EER	65,000-240,000 Btuh (5.5-20 Tons)
	\$83 per Ton	≥ 10.8 EER	≥ 240,000 Btuh (≥ 21 Tons)
Water-Cooled Chillers	\$27 per Ton	Level 1 (See specifications)	ALL
	\$55 per Ton	Level 2 (See specifications)	
Air-Cooled Chillers	\$42 per Ton	Level 1 (See specifications)	ALL
	\$83 per Ton	Level 2 (See specifications)	
PTAC/PTHP Packaged Terminal Air Conditioners or Heat Pumps	\$42 per Ton	EER > 13.08-(0.2556 x Btuh Capacity/1000)	ALL

Natural Gas Equipment Type	Incentive	Qualifying Equipment	Size Category
Natural Gas Furnaces	\$8.35 per 1,000 Btuh	≥ 92% AFUE	ALL
	\$10.00 per 1,000 Btuh	≥ 94% AFUE	ALL
	\$11.65 per 1,000 Btuh	≥ 96% AFUE	ALL
Natural Gas Boilers	\$5.85 per 1,000 Btuh	AFUE > 85%	< 1,000,000 Btuh Non-Condensing
	\$11.65 per 1,000 Btuh	AFUE > 90%	< 1,000,000 Btuh Condensing
	\$6.65 per 1,000 Btuh	TE (Et.) > 90%	1,000,000 Btuh to 5,000,000 Btuh
Condensing Unit Heaters	\$2.50 per 1,000 Btuh	TE (Et.) > 90%	≤ 300,000 Btuh
Infrared Heater	\$710 per unit	Low-intensity	ALL

3.1.5 **Water Heater Measures.** The incentives for Water Heater Measures are as set forth in Appendix A, Section 4.

Water Heater Measures		
Natural Gas Water Heater Tanked	\$500 per unit	See Appendix A, Section 4 for minimum specifications and worksheets
Natural Gas Water Heater Tankless	\$1,250 per unit	
Natural Gas Water Heater Tanked Condensing	\$875 per unit	

3.1.6 **Kitchen Equipment Measures.** The incentives for Kitchen Equipment Measures are as set forth in Appendix A, Section 5.

Kitchen Equipment Measures			
Electric Equipment			
ENERGY STAR® Freezer & Refrigerator	\$4.15 – \$5.00 / cf	See Appendix A, Section 5 for minimum specifications and worksheets	
Anti-Sweat Heat Controls	\$30 / ft		
Electrically Commutated Motor for Walk-in	\$65 / motor		
Electrically Commutated Motor for Reach-in	\$45 / motor		
Beverage Machine Control	\$110.00 / unit		
Snack Machine Control	\$45 / unit		
ENERGY STAR® Refrigerated Vending Machine	\$150 / unit		
LED Refrigeration Case Lighting	\$60 / door		
Low Flow Pre-Rinse Spray Valve - Electric Water Heater	\$32 / unit		
Natural Gas Equipment			
Low Flow Pre-Rinse Spray Valve - Natural Gas Water Heater	\$64 / unit		
High Efficiency Ice Makers			
High Efficiency Ice Maker	\$225 – \$600 / kWh per 100lbs		
Demand Control Ventilation for Kitchen Exhaust Hood			
New Hood	\$450 / HP		
Steam Cookers			
Electric Steam Cookers	\$450 – \$600 / unit		
Natural Steam Cookers	\$500 – \$800 / unit		

3.2 **Custom New Construction Incentives Program**

3.2.1 **Program Scope.** Incentives are based on kWh and/or therm savings demonstrated through whole

building energy modeling. The incentives are based on how far beyond the current Illinois Energy Conservation Code the building will be constructed.¹ This is to encourage applicants to design the building to achieve the greatest level of energy efficiency. For projects with baseline energy models aligned with the *International Energy Conservation Code*® (IECC)-2006 or the ANSI/ASHRAE/IES Standard 90.1 *Energy Standard for Buildings Except Low-Rise Residential Buildings* (ASHRAE 90.1)-2004, the custom incentive will be discounted 15%. For projects with baseline energy models aligned with the IECC-2009 or the ASHRAE 90.1-2007, the custom incentive will be discounted 10%. DCEO reserves the right to negotiate different incentive levels if the applicant is under rules that already require beyond code achievement.

- 3.2.2 **Maximum Base Incentive Rate.** Custom New Construction projects are subject to cost effectiveness evaluation. The Department reserves the right to review applications and negotiate incentive levels.

Custom New Construction Incentives	
Electricity	Natural Gas
\$0.08 / kWh	\$2.00 / therm

- 3.2.3 **High Performance Design Bonus.** In order to encourage the use of whole building energy modeling, buildings seeking LEED Silver, Gold or Platinum certification, or otherwise provide an engineered computer energy model, shall be eligible for a Design Bonus based on percentage of beyond code energy cost savings. Maximum bonus cannot exceed \$100,000.

High Performance Design Bonus		
Energy Cost Savings	Baseline Energy Model Conforming to ASHRAE 90.1-2004 or ASHRAE 90.1-2007	Baseline Energy Model Conforming to ASHRAE 90.1-2010
5% beyond code	\$0.00 / sf	\$0.40 / sf
10% beyond code	\$0.20 / sf	\$0.60 / sf
15% beyond code	\$0.40 / sf	\$0.80 / sf
20% beyond code	\$0.60 / sf	\$1.00 / sf
25% beyond code	\$0.80 / sf	\$1.20 / sf
30% beyond code	\$1.00 / sf	\$1.40 / sf

3.3 Funding Limitations

- 3.3.1 **Maximum Incentive Rate.** The incentives for each equipment category are as set forth in this section and in Appendix A and B by each individual energy efficiency measure. The total DCEO issued incentives cannot exceed 100 percent of the incremental measure cost and 75 percent of the total project cost. If additional incentives are provided to the project from other public sources [such as State Energy Program (SEP), Energy Efficiency and Conservation Block Grants (EECBG), Illinois Clean Energy Community Foundation (ICECF)], the combined DCEO and other public source incentives cannot exceed 100 percent of the total project cost.
- 3.3.2 **Maximum Grant Award.** The Department may provide up to, but not more than, a maximum grant award of \$2.50 per square foot for projects (total incentive including high performance design bonus, where applicable). Funding decisions are made as funding is available and the Department is not obligated to provide the maximum grant amount. The Department reserves the right to review applications and negotiate grant amounts. Projects are subject to a cost effectiveness evaluation.
- 3.3.3 **Maximum Incentive.** The Department may provide up to, but not more than, a maximum incentive of \$300,000. A single award may exceed \$300,000 if the application includes multiple project locations. Funding decisions are made as funding is available and the Department is not obligated to provide the maximum grant amount. The Department reserves the right to review application and negotiate grant amounts.

¹ *International Energy Conservation Code*® 2012 (IECC-2012) or the ANSI/ASHRAE/IES Standard 90.1 *Energy Standard for Buildings Except Low-Rise Residential Buildings* 2010 (ASHRAE 90.1-2010)

3.4 General Program Information

- 3.4.1 **Payment Schedule.** The grant agreement will specify the conditions of payment and the payment schedule. The Department reserves the right to determine the appropriate payment structure on a project-specific basis.
- 3.4.2 **Reporting Requirements/Project Monitoring.** Grantees will be required to submit progress and expenditure reports in accordance with the requirements of the grant agreement. The Department reserves the right to structure reporting requirements on a project-specific basis. The Department project manager will monitor the Grantee's compliance with the terms of the grant agreement to include verification of both sales transactions and equipment installation.
- 3.4.3 **Freedom of Information Act/Confidential Information.** Applications are subject to disclosure, in response to requests received under provisions of the Freedom of Information Act (5 ILCS 140/1 et seq.). Information that could reasonably be considered to be proprietary, privileged or confidential commercial or financial information should be identified as such in the application. The Department will maintain the confidentiality of that information only to the extent permitted by law.
- 3.4.4 **Authority/Approvals.** The applicant's signature on the Application page App-6 is its certification that all authorizations required to perform the project have either been obtained or will be obtained no later than 90 days following the grant beginning date set forth in the Notice of Grant Award issued by DCEO.
- 3.4.5 **Legal Compliance.** The applicant must certify on the application that the project complies with all applicable state, federal, and local environmental and zoning laws, ordinances, and regulations and that all permits, licenses, etc., required to perform the project have either been obtained or will be obtained no later than 90 days following the rebate application date or grant beginning date.
- 3.4.6 **Dissemination of Information/Technology Transfer.** Grantees will be contractually required to allow the Department access to the project site and the ability to obtain, publish, disseminate or distribute any and all information obtained from the project (except any data or information that has been negotiated as being confidential or proprietary), without restriction and without payment or compensation by the Department.
- 3.4.7 **Grant Duration/Performance Period.** The grant term/performance period will be determined on a project specific basis. Grantees will be required to certify the project completion date to the Department. The Agreement may require up to 24 months of performance data following the project completion date.
- 3.4.8 **Ownership/Use of Equipment.** The grant agreement will specifically prohibit the sale, lease, transfer, assignment, or encumbrance of any equipment or material purchased with grant funds, without the express written approval of the Department for the duration of 5 years or end of product life, whichever is less. In the event of a Grantee's failure to comply with this requirement, the grant agreement will provide that the Department may, at its discretion, require the Grantee to return all grant funds provided by the Department, require the Grantee to transfer to the state ownership of equipment and material purchased with grant funds and bar the Grantee from consideration for future funding. The Department reserves the right to require the Grantee to give it a purchase money security interest in equipment purchased with grant funds for the duration of the grant term.
- 3.4.9 **Prevailing Wage Requirements.** Grantees are responsible for determining if their projects will trigger compliance with the Illinois Prevailing Wage Act (820 ILCS 130/0.01). The Department will not render a legal opinion as to the applicability of the Prevailing Wage Act to any project. Questions regarding the applicability of Prevailing Wage requirements may be referred to the Illinois Department of Labor at (312) 793-2800 or (217) 782-6206. Attorney General Opinion No. 00-018, which addresses applicability of Prevailing Wage requirements, may be accessed on the Attorney General's Web site at <http://www.ag.state.il.us/opinions/2000/00-018.pdf>.
- 3.4.10 **State Not Liable.** Grantee shall hold the State harmless from any and all claims, demands, and actions based upon or arising out of any services performed by Grantee or by their agents or employees under a grant agreement. The Department, by entering into a grant agreement, does not pledge or promise to pledge the assets of the state nor does it promise to pay any compensation to the Grantee from any moneys of the treasury or the state except such moneys as shall be appropriated and paid to the Grantee by the Department.

- 3.4.11 **Indemnity.** The Grantee agrees to assume all risks of loss and to indemnify and hold the Department, its officers, agents and employees, harmless from and against any and all liabilities, demands, claims, damages, suits, costs, fees, and expenses, incidents thereto, for injuries or death to persons and for loss of, damage to, or destruction of property because of the Grantee's negligence, intentional acts or omissions. In the event of any demand or claim, the Department may elect to defend any such demand or claim against the Department and will be entitled to be paid by the Grantee for all damages.
- 3.4.12 **Insurance.** The Grantee shall provide Workers' Compensation Insurance or the same, as required, and shall accept full responsibility for the payment of Unemployment Insurance, premiums for Workers' Compensation, Social Security, and retirement and health insurance benefits, as well as all income tax deductions required by law for its employees who are performing services specified by the grant agreement.
- 3.4.13 **Return of Funds.** The Grantee shall return to the Department any and all funds that are determined by the Department to have been spent in violation of the grant agreement.

SECTION 4

APPLICATION PROCESS

4.1 Term and Application. Applications shall be printed or typed on the Department's current approved forms included in this document available at www.illinoisenergy.org. Electronic submissions must be submitted as one attachment.

- 4.1.1 Each application submitted under these guidelines must include all of the information required in the Application Document as provided for herein.
- 4.1.2 Applicants are strongly encouraged to submit a Pre-Approval Application to reserve funding. A Pre-Approval Application must be submitted prior to the start of construction. The pre-approval process assures that the calculations and methodology used to estimate the energy impacts meet the program requirements. Incentives will be based on the actual energy savings achieved as determined in the final application and the pre-approval process is not a guarantee of an incentive.
- 4.1.3 Applications under this program will be accepted on an ongoing basis, beginning on June 1, 2014 subject to funding availability. The Department will review the Pre-Approval Application for completeness. A letter acknowledging reservation of funds will be sent to the applicant. Funds will be reserved until May 8, 2015.
- 4.1.4 No new Pre-approval Applications for the Program Year ending May 31, 2015 will be accepted after April 1, 2015.
- 4.1.5 The Final Application, reflecting the measures and equipment actually installed, must be submitted within 45 days of project completion and no later than May 8, 2015, provided a Pre-approval Application was submitted by April 1, 2015. No Final Applications for new projects will be accepted after April 1, 2015, unless a Pre-approval Application was submitted by April 1, 2015. Project documentation, such as copies of substantial completion pay request; as-built construction documents and project manual; dated invoices for the purchase and installation of the measures and/or product specification sheets; and Certificate of Occupancy is required.

Note: Applicants are encouraged to contact the program manager Tom Coe at (217)785-2433 before proceeding with any potential incentive related projects.

- 4.1.6 Incentive **pre-approval applications** will be accepted at the following address:

Smart Energy Design Assistance Center (SEDAC)
 Attn: New Construction Incentive Program
 1901 S. First Street, Suite C-2
 Champaign, IL 61820
 (217) 244-7755

or electronically at the following email address: NCincentives@sedac.org.

- 4.1.7 Incentive **final applications** will be accepted at the following address:

DCEO
 Illinois Energy Office
 Attn: Illinois Energy Now Public Sector Energy Efficiency New Construction
 500 East Monroe Street, 11th floor
 Springfield, IL 62701

or electronically at the following email address: illinois.energy@illinois.gov. Electronic submissions **will contain 2 attachments:**

- 1) DCEO Application Forms PDF and
- 2) Single PDF scan of all Application Forms and Support Documents (as in previous program cycles).

4.2 General Review and Evaluation. The Department will review and evaluate applications in the order in which they are received and grants and rebates will be awarded as funding is available. Applications will first be reviewed to determine eligibility and completeness as specified under Section 2 and Section 4.1 and for compliance with the EEP statutory requirements. Ineligible or otherwise incomplete applications will be immediately rejected and returned to the applicant.

4.3 Incentives. The applicant must submit final completion certification to the Department within 45 days of the project completion but not later than May 15, 2015. This certification must include the project completion date. Applicants are also required to provide any information that may be required by the Independent Evaluator to assure Department compliance. Applications that satisfy the general review of Section 4.2 and provide certification of completion will be processed subject to Department approval. For incentives over \$150,000, the Department will incorporate a statement of work, budget, and grant requirements into a Grant Agreement between the Department and the Grantee. The Grant Agreement will require the Grantee's signature before the final Department approval.

4.4 Evaluation Criteria. Applications satisfying the general review of Section 4.2 will be evaluated on the basis of the following criteria. The evaluation criteria have been developed to allow the Department to identify those projects that best achieve the goals and objectives of the Department's Public Sector Energy Efficiency Program.

- 4.4.1 Overall quality of the application including measurable project goals, tasks and activities, a well-developed work plan, and easily identifiable deliverables.
- 4.4.2 Likelihood that project will be completed, potential to accomplish defined objectives, and technical feasibility.
- 4.4.3 Potential for the project to encourage investment in energy efficiency measures and support economic development in the state of Illinois through job creation and business development.
- 4.4.4 Cost-effectiveness in energy saved per program dollar spent.
- 4.4.5 Capability of the applicant including previous experience and additional professional resources available.
- 4.4.6 Any Applicant that is a current or previous grantee of the Department and was or is delinquent in its compliance with grant provisions shall have such delinquency included as one of the application evaluation criteria for this current application.
- 4.4.7 Other criteria as determined by the Department to be in the best interest of the State of Illinois.

4.5 Rejection of Applications. The Department reserves the right to reject any application. The submission of an application under these guidelines confers no right upon any applicant. The Department is not obligated to award any grants or rebates under this program or to pay any costs incurred by the applicant in the preparation and submission of an application, or pay any grant or rebate related costs incurred prior to the grant beginning date.

APPLICATION DOCUMENT

SECTION 1: PROGRAM CONTACT AND SUBMITTAL INFORMATION

Check for Availability of Funds	www.illinoisenergy.org under Energy Efficiency link or www.ilenergynow.org <ul style="list-style-type: none">• Fund availability is listed by participating utility companies and their delivered energy types (electric or gas)• You may only apply for incentives in those participating utility service territories that show “funds available” on the website.
For Additional Information	www.illinoisenergy.org or http://smartenergy.illinois.edu/new-construction-incentive-program.html or Illinois.energy@illinois.gov TTY: (800) 785-6055
DCEO Contact	Tom Coe Program Manager of Illinois Energy Now Public Sector Energy Efficiency New Construction
Final Application Review Contact	Tom.coe@illinois.gov (217) 785-2433 (phone) (217) 588-2647 (fax)
Send Final Application to	DCEO Illinois Energy Office Attn: Illinois Energy Now Public Sector Energy Efficiency New Construction 500 East Monroe Street, 11 th floor Springfield, IL 62701
Send Pre-Approval Application to	NCincentives@sedac.org <ul style="list-style-type: none">• Electronic submissions are encouraged SEDAC Attn.: New Construction Incentive Program 1901 S. First Street, Suite C-2 Champaign, IL 61820 (217) 244-7755 (phone) (312) 264-2379 (fax)
Pre-Approval Application Review Contact	SEDAC Jean Ascoli Program Director for New Construction jean@sedac.org (217) 244-7755 (phone)

SECTION 2: APPLICATION CHECKLIST

The method and assumption used by the applicant to calculate the annual savings will be reviewed by DCEO. **DCEO is solely responsible for the final determination of the annual energy savings to be used in calculating the incentive amount.** DCEO also reserves the right to require specific measurement and verification activities such as monitoring both before and after the retrofit and to base the incentive payment on the results of these activities.

The following information should be provided where applicable as supporting documentation along with the information required in this application. DCEO reserves the right to request additional documentation if necessary to determine or verify the energy savings.

Pre-Approval Application - all Applications must include:

- Completed application
- 100% construction documents including architecture, mechanical, and electrical drawings
- Project manual and/or specifications
- Copy of utility bill or application for utility^{2, 3}

Prescriptive Projects must also include:

- Completed worksheets (Appendix A)
- Manufacturer's specification sheets for all eligible equipment

Custom Projects must also include:

- Completed worksheets (Appendix B)
- Baseline and proposed building energy model inputs and outputs (see Section 1.3, Building Energy Model) and documenting reports to justify energy savings
- Estimated construction costs

Final Application must include:

- Copy of electric and/or natural gas bill (final pages that list taxes and fees applied) or letter from utility certifying that the building will use that utility, unless submitted with pre-approval application. Please include pages of bills that list taxes and fees applied.
- Completed final application (revised as necessary)
- As-built construction documents w/ changes noted
- Substantial completion pay request and building occupancy certificate

² For projects requesting electric incentives, bills must confirm electric delivery service from Ameren or ComEd wires regardless of the retail electric supplier.

³ For projects requesting natural gas incentives, bills must confirm natural gas delivery service from Ameren, Nicor, Peoples, or North Shore distribution regardless of the retail natural gas supplier.

The following information may be required as supporting documentation along with the information required in this application or as required during the review process.

- If not included in the Construction Documents, Project Manual, and/or Specifications
 - Concise project description: Describe BOTH the existing (pre-retrofit or “baseline”) system and the proposed (post-retrofit or “efficient-case”) system. Be as precise, yet concise as possible in the descriptions - include specific quantities and equipment descriptions.
 - Provide the quantity, make, model number and rated capacity of the new equipment (proposed) that is being installed. Also provide other nameplate information like operating voltage, rated full load amps, thermal rating, and efficiency where appropriate. The scope of work from the proposal to the client is often helpful to describe the new equipment.
 - Provide copies of the manufacturer’s specifications and/or performance rating sheets and the Web site address where further technical information about the equipment performance might be found.
 - Describe the locations where the equipment is installed.
- Describe BOTH the facility operating hours and the equipment operating schedule for each day of the week. Where equipment operation varies with days of the week or seasons, be sure to provide a description of the operation for all days of the week and all seasons.
- Annotate all assumptions or constants used in engineering calculations.
- Provide the name of the person(s) who did the savings calculations so that staff can discuss questions.
- Use accepted engineering algorithms and procedures from recognized technical organizations such as ASHRAE, SMACNA, ANSI, etc.
- Use rated performance factors tested under accepted procedures specified by recognized rating agencies such as AHRI, AGA, ANSI, ASTM, etc. Provide an explanation when equipment performance rating conditions vary from standard conditions.
- Other information as required.

Building Information	
Project Name: _____	
Electric Utility Account Number* _____	Gas Utility Account Number* _____
Electric Meter Number* _____	Gas Meter Number* _____
Total Project Cost for this Building/Facility:** \$ _____	Building Gross Area (gsf): _____
Estimated Total Baseline Project Cost (code compliant)* \$ _____	Other Public Incentive Funds*** \$ _____

* If available.

** Total Project Cost = Equipment + Labor.

*** Such as State Energy Program (SEP) and Illinois Clean Energy Community Foundation (ICECF). The combined DCEO incentives and other public sources incentives cannot exceed 100 percent of total project cost.

Incentive Request	
Prescriptive New Construction Incentives (from Appendix A, Table 11)	
Total Prescriptive Incentive ** \$ _____	
Custom New Construction Incentives (from Appendix B, Table 13 and 14)	
Electric Incentive (\$) = Annual Electric Savings (kWh/yr) X Incentive Rate*,** (Table 13) \$ _____	Natural Gas Incentive (\$) = Annual Natural Gas Savings (therms/yr) X Incentive Rate*,** (Table 13) \$ _____
High Performance Design Bonus Incentive (\$) = Total Building Square Footage X Performance Incentive ** (Table 14) \$ _____	

* Custom Incentive amount for New Construction Projects equals \$0.08 per annual kWh saved for electric measures and \$2.00 per annual therm saved for natural gas measures.

** Total incentive cannot exceed 100 percent of the incremental measure cost and 75 percent of the total project cost.

APPLICANT CERTIFICATION

Applicant hereby certifies that:

- For electric energy projects, the project received electric delivery service from Ameren or ComEd. A copy of the electric utility bill or other documentation must be submitted with this Application.
- For natural gas energy projects, the project received natural gas delivery service from Ameren, Nicor Gas, Peoples or North Shore. A copy of the gas utility bill or other documentation must be submitted with this Application.
- All authorizations required to perform the project, described in its application, have either been obtained or will be obtained no later than 90 days following the grant beginning date set forth in the Notice of Grant Award issued by the Department.
- The project complies with all applicable state, federal, and local environmental and zoning laws, ordinances, and regulations and that all required licenses, permits, etc., have either been obtained or will be obtained no later than 90 days following an award by DCEO.
- It is not in violation of the prohibitions against bribery of any officer or employee of the State of Illinois as set forth in 30 ILCS 505/10.1.
- It has not been barred from contracting with a unit of state or local government as a result of a violation of Section 33E-3 or 33E-4 of the Criminal Code of 1961 (720 ILCS 5/33 E-3 and 5/33 E-4).
- It is not in violation of the Educational Loan Default Act (5 ILCS 385/3).
- I understand that the State Finance Act, 30 ILCS 105/30 may apply and that payments under this incentive program are contingent upon the existence of a valid appropriation, and that no officer, institution, department, board or commission shall contract any indebtedness on behalf of the State, or assume to bind the State in an amount in excess of the money appropriated, unless expressly authorized by law.
- I understand that the Illinois Prevailing Wage Act (820 ILCS 130/0.01) may apply and that Grantees are responsible for determining if their projects will trigger compliance.
- As of the submittal date, the information provided in its application is accurate, and the individual signing below is authorized to submit this application.

Applicant Information [Authorized Official]

Authorized Official Signature*:		Date:
Printed Name:	Title:	Name of Public Entity:
Authorized Signature Address (Address, City, 9 Digit Zip **)		
Phone:	Fax:	Email:
FEIN Number (9 digits, Federal Employment ID Number, does not start with "E"):		

* Electronic Signatures not acceptable. Please supply Certifications (this page) with original signature via e-mail, fax, or electronically (scanned document)

** Find 9-digit zip at www.usps.com

SECTION 4: PROJECT INFORMATION

Project Name _____ **Address:** _____

If your application includes more than one building/facility, a separate Application, Section 3 and 4 plus all associated worksheets (Appendices A & B) must be filled out for each building/ facility and submitted as part of this application.

The project will be (please check all that apply):

- New facility Addition to existing facility Renovation of existing Facility

Building Description: Describe the building use, structural system, envelope design, other unique characteristics.

Proposed Equipment: Describe proposed equipment and operation strategy (i.e., operating hours, efficiency, etc.)

(Custom Applications) Calculation Method: Briefly describe the method used to calculate annual electric energy savings in kWh and annual natural gas savings in therms (attach documentation if available)

APPENDIX A: PRESCRIPTIVE INCENTIVE WORKSHEETS

All equipment must meet or exceed the minimum requirements in the Illinois Energy Conservation Code and the *Guidelines, Application, and Worksheets* for the New Construction Program.

SECTION 1: LIGHTING POWER DENSITY (LPD) FOR INTERIOR LIGHTING

The LPD reduction incentive (Table 1) encourages the inclusion or installation of lighting designs and equipment that provide quality lighting at lower installed wattage. The incentive for reducing LPD is calculated on a per square foot (SF) basis for overall LPD performance.

Table 1 Lighting Power Density Incentive

LPD Reduction	Incentive Rate (\$/SF)
For each watt/sf below maximum allowed LPD or fraction thereof.	\$0.30

1. To determine the maximum allowed LPD reference ANSI/ASHRAE/IES Standard 90.1 *Energy Standard for Buildings Except Low-Rise Residential Buildings* 2010 (ASHRAE 90.1-2010), Table 9.5.1; or for projects following the Space-by-Space method, Table 9.6.1.
2. Maximum payment is \$0.15 per square-foot-gross lighting area or \$40/fixture, whichever is less
3. DCEO may assign a power rating (e.g. watts per fixture) for proposed lighting equipment that is not supported by manufacturer model numbers or specification sheets.
4. DCEO's team will make the final determination of affected area for incentive calculation.
5. Lighting power densities must be based on designs that meet applicable codes and standards and follow industry guidelines for acceptable quantity and quality of light for the space types and tasks.
6. Provide Construction documents with lighting plans and schedules.

Table 2 Lighting Measure Incentives Worksheet

Building Area (or Space) Type	(A) Required LPD *	(B) Proposed LPD	(C) Gross Building Area or Gross Space Area	(A-B) * C * \$0.30
Total				

* Use required LPD from the following: ASHRAE 90.1-2010, Table 9.5.1; or for projects following the Space-by-Space method, Table 9.6.1.

SECTION 2: ENVELOPE MEASURES

Funding is available for exceeding code requirements for the thermal envelope of the building based on the square footage of surface, subject to review of measure cost-effectiveness.

Table 3 Envelope Measure Incentive Worksheet

Envelope Description	(A) Proposed R-Value* (SHGC where applicable)	(B) Required R-Value** (SHGC where applicable)	(C) Area (sf) of Component	Incentives \$
Roofs				(A-B) * C*\$0.08
Insulation Entirely above Deck		R-20.8 (Zones 4 & 5)		
Metal Building		R-18.2 (Zones 4 & 5)		
Attic and Other		R-37 (Zones 4 & 5)		
Walls				(A-B) * C*\$0.10
Mass		R-9.6 (Zone 4) R-11.1 (Zone 5)		
Metal Building		R-11.9 (Zone 4) R-14.5 (Zone 5)		
Steel-Framed		R-15.6 (Zones 4 & 5)		
Wood-Framed and Other		R-11.2 (Zone 4) R-15.6 (Zone 5)		
Opaque Doors ***				(A-B) * C*\$2.00
Swinging		R-1.43 (Zones 4 & 5)		
Roll-up or sliding		R-2.00 (Zones 4 & 5)		
Windows & Skylights***				(A-B) * C*\$5.00
Nonmetal framing (all)		R-2.50 (Zone 4) R-2.85 (Zone 5)		
Metal framing (curtainwall/storefront)		R-2.00 (Zone 4) R-2.22 (Zone 5)		
Metal framing (entrance door)		R-1.18 (Zone 4) R-1.25 (Zone 5)		
Metal framing (all other)		R-1.82 (Zones 4 & 5)		
Skylights		R-1.45 (Zones 4 & 5)		
Windows - SHGC				(B-A) * C*\$5.00
SHGC		SHGC-0.40		
SHGC		SHGC-0.40		
SHGC		SHGC-0.40		
Total				

Notes to Table 3:

- * Proposed R-Value is the effective R-Value of the exterior system.⁴ For buildings which have several envelope systems, calculate incentive for each wall area separately. Each effective R-Value shall include all components of the wall or roof assembly. Provide calculations.
- ** Required R-Value is the effective total assembly R-Value based on 1/U-Factor, where the U-Factor is the Assembly Maximum listed in the ANSI/ASHRAE/IES Standard 90.1 *Energy Standard for Buildings Except Low-Rise Residential Buildings* 2010 (ASHRAE 90.1-2010), Table 5.5-4 for buildings located Climate Zone 4, or Table 5.5-5 for buildings located in Climate Zone 5.
- *** Convert proposed and code allowed maximum window U-Factor to R-Value for this calculation.

Envelope Specifications

All envelope components must meet the minimum standards of the Illinois Energy Conservation Code. Improvements in the envelope must be calculated based on the effective R-Value and subtracted from the required effective R-Value. All other conditions of the code must be met.

⁴ The determination of effective assembly R-Values for building envelope components, including roof and walls, should be based on industry best practice. Recommended source for information on this topic:
ANSI/ASHRAE/IES Standard 90.1, Normative Appendix A: Rated R-Value of insulation and assembly U-Factor, C-Factor, and F-Factor Determinations

SECTION 3: MECHANICAL MEASURES

The efficient Heating Ventilating and Air Conditioning (HVAC) equipment incentive encourages designers to select energy efficient mechanical systems. The energy performance of select equipment must meet or exceed the requirements shown in Table 4.

Table 4 HVAC Incentive Summary

Electric Equipment Type	Incentive	Qualifying Equipment	Size Category
Unitary and Split System Air Conditioning and Air Source Heat Pumps	\$83 per Ton	≥ 15 SEER	< 65,000 Btuh (5.4 tons)
	\$83 per Ton	≥ 12 EER	65,000 to 240,000 Btuh (5.5 - 20 Tons)
	\$83 per Ton	≥ 10.8 EER	≥ 240,000 Btuh (≥ 21 Tons)
Water-Cooled Chillers (scroll, centrifugal, reciprocating)	\$27 per Ton	Level 1 (See HVAC Specifications)	ALL
	\$55 per Ton	Level 2 (See HVAC Specifications)	
Air-Cooled Chillers	\$42 per Ton	Level 1 (See HVAC Specifications)	ALL
	\$83 per Ton	Level 2 (See HVAC Specifications)	
PTAC/PTHP Packaged Terminal Air Conditioners or Heat Pumps	\$42 per Ton	EER > 13.08-(0.2556 x Btuh Capacity/1000)	ALL
Natural Gas Equipment Type	Incentive	Qualifying Equipment	Size Category
Natural Gas Furnaces	\$8.35 per 1,000 Btuh	≥ 92% AFUE	ALL
	\$10.00 per 1,000 Btuh	≥ 94% AFUE	ALL
	\$11.65 per 1,000 Btuh	≥ 96% AFUE	ALL
Natural Gas Boilers	\$5.85 per 1,000 Btuh	AFUE > 85%	< 1,000,000 Btuh Non-Condensing
	\$11.65 per 1,000 Btuh	AFUE > 90%	< 1,000,000 Btuh Condensing
	\$6.65 per 1,000 Btuh	TE (Et.) > 90%	1,000,000 Btuh to 5,000,000 Btuh
Condensing Unit Heaters	\$2.50 per 1,000 Btuh	TE (Et.) > 90%	≤ 300,000 Btuh
Infrared Heater	\$710 per unit	Low-intensity	ALL

Table 5 Chiller Information Worksheet

Chiller Type	Minimum Efficiency *		Proposed Efficiency **		Level 1	Level 2
	Full Load	IPLV	Full Load	IPLV		
Scroll or Helical-Rotary					\$27 / Ton	\$55 / Ton
Centrifugal					\$27 / Ton	\$55 / Ton
Reciprocating					\$27 / Ton	\$55 / Ton
Air-Cooled					\$42 / Ton	\$83 / Ton

* Obtain full load and IPLV data from minimum efficiency requirements of ASHRAE 90.1-2010, Table 6.8.1C.

** Obtain full load and IPLV data from manufacturer.

Table 6 HVAC Incentive Worksheet (Total HVAC and Chiller Incentives)

Equipment Type	Make & Model **	Unit Efficiency	(A) Unit Size (ton or kBtuh)	(B) Quantity	(C) Incentive per Unit *	(A*B*C) *** Incentives \$
Total						

- * Incentives are listed in Table 4 and Table 5.
- ** Provide manufacturer’s specification sheets.
- *** For Infrared Heater (B*C)

Ground Source Heat Pumps and Variable Refrigerant Flow

Table 7 Ground Source Heat Pump and Variable Refrigerant Flow (VRF) Incentive Worksheet

Ground Source Heat Pump (GHSP) [or Variable Refrigerant Flow (VRF)]						
Baseline	GSHP [or VRF] Make and Model*	Unit Efficiency (EER)	(A) Unit Size (Tons)	(B) Quantity	(C) Incentive per Ton	(A*B*C) Incentive \$
All Electric					TBD	
All Electric					TBD	
All Electric					TBD	
All Electric					TBD	
Electric HVAC and Natural Gas Heating					TBD	
Electric HVAC and Natural Gas Heating					TBD	
Electric HVAC and Natural Gas Heating					TBD	
Electric HVAC and Natural Gas Heating					TBD	
Total GHSP [or VRF] Incentive Request						

- * Provide manufacturer’s specification sheets.

HVAC Specifications

Unitary and Split System Air Conditioning, Air Source Heat Pumps

Incentive applies for new unitary air conditioning units or air source heat pumps that meet or exceed the qualifying cooling efficiency shown in the HVAC Incentive Worksheet Table. Systems can be either split systems or single package units. The efficiency of split systems is based on an Air Conditioning, Heating and Refrigeration Institute (AHRI) reference number. All packaged and split system cooling equipment must meet AHRI Standards (210/240, 320 or 340/360), and be UL listed. The refrigerant must comply with local codes. All required efficiencies are based on the Consortium for Energy Efficiency (CEE) high efficiency commercial air conditioning and heat pump specifications (www.cee1.org). **A manufacturer’s specification sheet indicating the system efficiency must accompany the application.** Disposal of the existing unit must comply with local codes and ordinances.

Water- and Air-cooled Chillers

Incentive applies for new chillers where rated kW/ton for the Integrated Part Load Value (IPLV) is less than or equal to the qualifying Level 1 and Level 2 efficiency shown in the table below. The chiller efficiency rating must be based on AHRI Standard 550/590-2003 for IPLV conditions and not based on full-load conditions. The chillers must meet AHRI Standards 550/590-2003 and be UL listed. The refrigerant must comply with local codes. The AHRI net capacity value should be used to determine the chiller tons. **A manufacturer specification sheet with the rated kW/Ton-IPLV or COP-IPLV must accompany the application.** Qualifying efficiencies for chillers are summarized below. Central plant or loop systems may apply under the Custom New Construction Incentives Program.

Chiller Type	Size (Tons)	Level 1 kW per Ton IPLV	Level 2 kW per Ton IPLV
Scroll or Helical	< 150	0.55	0.49
	150 to 299	0.52	0.46
	≥ 300	0.49	0.43
Centrifugal	< 300	0.54	0.48
	300 to 599	0.49	0.44
	≥ 600	0.49	0.43
Reciprocating	ALL	0.63	0.56
Air-Cooled	ALL	1.04	0.86

Ground Source Heat Pumps

Incentive applies for new Ground Source Heat Pump (GSHP) systems with Energy Efficiency Ratio (EER) ≥ 15 and Coefficient of Performance (COP) ≥ 3.4.

Incentive applies for closed loop heat exchanger system including vertical closed loop field, horizontal closed loop field, slinky closed loop field, and closed pond loop. Other heat exchangers such as boiler/chiller water loop systems and direct expansion may be eligible under the Custom Incentive Program. Heat pump EER will be the published full load values at standard test conditions in accordance with ANSI/AHRI/ASHRAE ISO Standard 13256-1, 2: 1998 (Ground Loop Heat Pump). (Entering water temperature from ground loop: 77 °F cooling, 32 °F heating). **A manufacturer’s specification sheet indicating the EER and COP must accompany the application.**

Variable Refrigerant Flow

Incentive applies for new Variable Refrigerant Flow (VRF) systems with Energy Efficiency Ratio (EER) ≥ 15 and Coefficient of Performance (COP) ≥ 3.4.

Incentive applies for VRF air conditioners, and air-cooled, water source, ground source, or groundwater source VRF systems. This includes Multi-Split systems and Heat Pump equipment. Other heat exchangers such as boiler/chiller water loop systems and direct expansion may be eligible under the Custom Incentive Program. VRF EER will be the published full load values at standard test conditions in accordance with ANSI/AHRI/ASHRAE ISO Standard 1230: 2010 (Variable Refrigerant Flow). Entering water temperature from ground loop per ASHRAE 90.1-2010. **A manufacturer’s specification sheet indicating the EER and COP must accompany the application.**

Packaged Terminal AC and Heat Pump Units (PTAC/PTHP)

Incentive applies for new through-the-wall self-contained packaged terminal air conditioners and heat pumps ≤ 2 tons (24,000 Btuh). Only units that have an Energy Efficiency Ratio (EER) > 13.08 – (0.2556 * Capacity / 1000), where capacity is in Btuh, qualify for the incentive. All EER values must be rated at 95°F outdoor dry-bulb temperature.

Natural Gas-Fired Furnace

Incentive applies to the installation of new natural gas-fired furnace. Furnace shall be ENERGY STAR® qualified (www.energystar.gov) and meet Minimum Annual Fuel Utilization Efficiencies (AFUE) of ≥ 92%. Incentive based on kBtu (1,000 Btuh) input.

Boilers

Incentive applies to the installation of new natural gas-fired boiler. Incentive is based on kBtuh (1,000 Btuh) input. Boilers greater than 5 MMBtuh (5,000,000 Btuh) may be eligible for the Custom New Construction Incentives Program. Qualifying unit efficiency must be rated in accordance with Department of Energy (DOE) Boiler test procedures. Ratings can be found at the AHRI (Air-Conditioning, Heating and Refrigeration Institute) website <https://www.ahridirectory.org/> - select Commercial Boilers.

Condensing Unit Heaters

Incentive applies for the installation of a natural gas-fired condensing unit heater. The efficient equipment unit must be less than 300,000 Btuh and have a Thermal Efficiency > 90%. The heater must be vented and condensate drained per manufacturer's specifications.

Infrared Heaters, Low Intensity

Incentive applies for the installation of a natural gas-fired low-intensity infrared heater with an electric ignition that uses non-conditioned air for combustion.

SECTION 4: WATER HEATER MEASURES

Table 8 Water Heater Incentive Worksheet

Natural Gas Fired Water Heater	Size	Unit Efficiency *	(A) Quantity	(B) Incentive per Unit	(A * B) Incentive \$
Natural Gas Water Heater Tanked	≥ 75 kBtuh input ≥ 50 gallon capacity	Efficiency (E _t) ≥ 90%		\$500 per Unit	
Natural Gas Water Heater Tankless	≥ 5 GPM output @ 70°F temperature rise ≥ 50 gallon capacity	Thermal Efficiency (E _t) ≥ 80%		\$1,250 per Unit	
Natural Gas Water Heater Tanked Condensing	≥ 75 kBtuh input ≥ 50 gallon capacity	Thermal Efficiency (E _t) ≥ 94%		\$875 per Unit	
Total					

* Provide manufacturer’s specification sheets.

Natural Gas Water Heater Tanked

Incentive applies to the installation of new natural gas-fired water heaters. Qualifying units must meet specified Thermal Efficiency (E_t). They can be found at the AHRI (Air-Conditioning, Heating and Refrigeration Institute) website <https://www.ahridirectory.org/> - select Commercial Water Heaters.

Natural Gas Water Heater Tankless

Incentives applies to the installation of new on-demand or instantaneous tankless natural gas-fired water heaters. Qualifying units must meet specified Thermal Efficiency (E_t). Qualifying unit must meet or exceed the efficiency requirements for tankless hot water heaters mandated by the International Energy Conservation Code (IECC) 2012, Table C404.2.

SECTION 5: KITCHEN AND OTHER MEASURES

Table 9 Kitchen Incentive Worksheet *

	Incentive Unit	(A) Quantity	(B) Incentive per Unit	(A * B) Incentive \$
Electric Measure				
ENERGY STAR® Solid Door Freezers	Per Cubic Foot		\$4.15	
ENERGY STAR Glass Door Freezers	Per Cubic Foot		\$5.00	
ENERGY STAR Glass Door Refrigerator	Per Cubic Foot		\$5.00	
Anti-Sweat Heater Controls	Per Linear Foot		\$30.00	
Electrically Commutated Motor for Walk-in	Per Motor		\$65.00	
Electrically Commutated Motor for Reach-in	Per Motor		\$45.00	
Beverage Machine Control	Per Unit		\$110.00	
Snack Machine Control	Per Unit		\$45.00	
ENERGY STAR Refrigerated Vending Machine	Per Unit		\$150.00	
LED Refrigeration Case Lighting	Per Door		\$60.00	
Low Flow Pre-Rinse Spray Valve – Electric Water Heater	Per Unit		\$32.00	
Natural Gas Measure				
Low Flow Pre-Rinse Spray Valve – Natural Gas Water Heater	Per Unit		\$64.00	
Total				

* Provide manufacturer’s specification sheets.

Table 10 Other Kitchen Incentives Worksheet *

High Efficiency Ice Makers					
Size (lbs / 24 hrs)	Qualifying kWh per 100 lbs	Installed kWh per 100 lbs	(A) Quantity	(B) Incentive per Ice Maker	(A * B) Incentive \$
101-200	8.5			\$225.00	
201-300	7.7			\$225.00	
301-400	6.5			\$300.00	
401-500	5.5			\$340.00	
501-1000	5.2			\$450.00	
1001-1500	5			\$600.00	
> 1500	4.6			\$600.00	
Total					
Demand Control Ventilation for Kitchen Exhaust Hoods					
	Incentive Unit	(A) New Exhaust Fan (hp)	(B) Incentive per hp	(A * B) Incentive \$	
New Hood	Exhaust Fan hp		\$450		
Total					
Steam Cookers					
Electric Steam Cookers	Energy Efficiency	Idle Energy Rate	(A) Quantity	(B) Incentive per Steam Cooker	(A * B) Incentive \$
3-pan	≥ 50%	≤ 400 W		\$450	
4-pan	≥ 50%	≤ 530 W		\$500	
5-pan	≥ 50%	≤ 670 W		\$550	
6-pan and larger	≥ 50%	≤ 800 W		\$600	
Natural Gas Steam Cookers	Energy Efficiency	Idle Energy Rate	(A) Quantity	(B) Incentive per Steam Cooker	(A * B) Incentive \$
3-pan	≥ 38%	≤ 6,250 Btu/h		\$500	
4-pan	≥ 38%	≤ 8,350 Btu/h		\$600	
5-pan	≥ 38%	≤ 10,400 Btu/h		\$700	
6-pan and larger	≥ 38%	≤ 12,500 Btu/h		\$800	
Total					

* Provide manufacturer's specification sheets.

KITCHEN SPECIFICATIONS

ENERGY STAR® Solid Door Freezers

Incentive applies for commercial food-grade ENERGY STAR listed freezers. Outer doors on all sides of the unit must be solid doors, doors may be sliding or hinged. Qualifying models are listed at www.energystar.gov/cfs.

ENERGY STAR Glass Door Freezers and Refrigerators

Incentive applies for ENERGY STAR listed refrigerators or freezers. Outer doors on at least one side of the unit are glass doors, doors may be sliding or hinged. Qualifying models are listed at www.energystar.gov/cfs.

Anti-Sweat Heater Controls

Incentive applies for the installation of anti-sweat heater controls that sense the relative humidity in the air outside of the display case and reduces or turns off the glass door (if applicable) and frame anti-sweat heaters at low-humidity conditions. Technologies that can turn off anti-sweat heaters based on sensing condensation (on the inner glass pane) also qualify. Incentive is based on the total linear footage of the case.

Electrically Commutated (EC) Evaporator Fan Motor (Reach-in or Walk-in Refrigerated Cases)

Incentive applies for the high-efficiency shaded-pole evaporator fan motor in refrigerated display cases or fan coil in reach-in or walk-in refrigerated cases. The unit must be an Electronically Commutated Motor (ECM).

Beverage Machine Controls

Incentive applies for the installation of new controls on beverage machines (assumed to contain non-perishable bottled and canned beverages). Controls must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Also, the control logic should power up the machine at 2-hour intervals to maintain product temperature and provide compressor protection. Incentive does not apply to ENERGY STAR qualified vending machines as they are eligible under **ENERGY STAR Refrigerated Beverage Vending Machine**.

Snack Machine Controls

Incentive applies for the installation of new controls on non-refrigerated snack vending machine. Controls must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Incentive does not apply to ENERGY STAR qualified vending machines.

ENERGY STAR Refrigerated Beverage Vending Machine

Incentive applies for the installation of an ENERGY STAR qualified refrigerated beverage vending machine. Qualifying machines can be found at www.energystar.gov.

LED Refrigeration Case Lighting

Incentive applies for the installation of new light emitting diode (LED) source illumination. New LED lamps and fixtures must be either ENERGY STAR labeled or on the [Design Lights Consortium](#) qualifying fixture list.

Low Flow Pre-Rinse Spray Valve (Electric and Natural Gas Water Heater)

Incentive applies for the installation of low flow pre-rinse spray valves where the hot water heater is electric or natural gas. Pre-rinse spray valves must have a flow rate of 1.06 gallons per minute or less, and a cleanability performance of 26 seconds per plate or less based on the ASTM Standard Test Method for Performance of Pre-Rinse Spray Valves. Applicants who receive a high efficiency pre-rinse spray valve for free through any other DCEO programs are not eligible for this incentive.

High-Efficiency Ice Makers

Incentive applies for the installation of a new ENERGY STAR qualified commercial ice machine. This excludes flake and nugget type machines. Only air-cooled machines qualify (self-contained, ice making heads, or remote condensing). The machine must have a minimum capacity of 101 lbs of ice per 24-hour period (per day). Qualifying model numbers are listed at www.energystar.gov or www.cee1.org. A manufacturer's specification sheet must accompany the application that shows rating in accordance to AHRI standard 810.

Demand Control Ventilation for Kitchen Exhaust Hoods

Incentive applies for new control system that varies the exhaust rate of kitchen ventilation (exhaust and/or makeup air fans) based on the energy and effluent output from the cooking appliances (i.e., the more heat and smoke/vapors generated, the more ventilation needed). This includes the installation of a temperature sensor in the hood exhaust collar and/or an optic sensor on the end of the hood, a variable speed drive on the exhaust fan that will vary the rate of exhaust to what is needed, and a variable speed drive on the makeup air unit, if applicable. Incentive is based on the exhaust fan HP only (not makeup air fan). VSDs on the makeup air fan do not qualify for an additional incentive.

Electric and Natural Gas Steam Cookers

Incentive applies for the installation of ENERGY STAR steam cookers. The minimum cooking energy efficiency at heavy load (potato) cooking capacity is 38% for gas steam cookers and 50% for electric steam cookers. Qualifying models are listed at www.energystar.gov/cfs.

SECTION 6: PRESCRIPTIVE INCENTIVE SUMMARY

Complete the following worksheet to calculate the total gas and electric incentive requested under the prescriptive incentive program. This figure is subject to verification by DCEO. Provide construction documents, project manual, and other documentation required to verify implemented measures.

Table 11 Total Prescriptive Incentive Worksheet

Section		Table	Incentive \$
1	Lighting Power Density	Table 2	
2	Envelope	Table 3	
3	HVAC	Table 6	
	Ground Source Heat Pumps/VRF	Table 7	
4	Water Heaters	Table 8	
5	Kitchen and Other		
	Kitchen	Table 9	
	Ice Makers	Table 10	
	Demand Control Ventilation	Table 10	
	Steam Cookers	Table 10	
Total			

APPENDIX B: CUSTOM INCENTIVE WORKSHEETS

For custom (non-prescriptive) projects, indicate kWh and/or therm saving totals from building model or calculation. The method and assumption used by the applicant to calculate the annual savings will be reviewed by DCEO. **DCEO is solely responsible for the final determination of the annual energy savings to be used in calculating the incentive amount.** Provide construction documents, project manual, all inputs and outputs from building energy model, and other documentation required to verify implemented measures.

Table 12 Energy Savings Summary*

	KWH Saved	Therms Saved
HVAC		
Space Heating		
Space Cooling		
Pumps		
Fans		
HVAC – Add'l		
Heat Rejection		
Other _____		
Lighting - Interior		
Lighting - Exterior		
Receptacle Loads		
Water Heating		
Other Process _____		
Total Building Performance		

- * To complete this table, refer to the building energy model reports, for example see:
- Trane® TRACE™ 700 – Energy Cost Budget / PRM Summary report;
 - eQUEST® (DOE-2 based program) – BEPU-Building Utility Performance report;
 - Carrier® HAP™ – Performance Rating Table - Performance Rating Method Compliance (within the LEED Credit 1 Summary Report).

Table 13 Custom Base Incentive Worksheet

	(A) Baseline *	(B) Proposed *	(C) Incentive Rate	(A-B) * C Incentive \$
Electrical Savings (kWh)			\$0.08/kWh	
Natural Gas Savings (therms)			\$2.00/therm	
Total				

* Refer to the building energy model reports.

Table 14 High Performance Design Bonus Incentive Worksheet

	(A) Baseline *	(B) Proposed *	(A-B)/A % Beyond Code	Incentive \$ (See Section 3.2.3)
Energy Cost (\$)				
Energy Use (kBtu)				X
Gross Square Footage				
Total (Incentive Rate * Square Footage)				

* Refer to the building energy model reports.