



Commercial & Industrial Application for Energy Efficiency Incentives

ENERGY SMART ProgramSM
Brought to you by the City of Sturgis



Instructions for Use:

*For more detailed instructions, please refer to the Terms and Conditions included with this application.
Please call 877-NRG-SAV1 (877-674-7281) for questions about the application and/or pre-approval before installation.*

- Step 1:** **Determine Eligibility:** Equipment must be new and installed in a commercial facility which is a *City of Sturgis* electric customer, as well as meet minimum requirements set forth in this document.
- Step 2:** **Apply for Pre-Approval.** Complete this application and the "Approval Checklist" to receive pre-approval to initiate the project. Incomplete applications will cause delays!
- Step 3:** **Include the following documentation with your application:**
- Itemized invoices including costs for materials, permits, disposal, installation labor, etc. (Internal labor for self-installed projects cannot be included in the total project cost.)
 - New equipment specification sheet(s)
 - Two (2) copies of most recent Electric Utility Billing statements for installation facility
(First two (2) pages are sufficient if they include a summary of charges)
- Step 4:** **Install Equipment (after receiving pre-approval notification)** New equipment must be installed and old equipment removed. Only new products which are exact product types listed in this form are eligible for prescriptive incentives.
- Step 5:** **Complete and sign the application.** Incomplete applications will cause delays in payment, please make sure approval checklist is complete for final application. Final applications must be received within 30 days of installation. Include the final itemized invoices.
- Step 6:** **Return completed application and required materials to (choose a method):**

Mail to:
City of Sturgis ENERGY SMART ProgramSM
1219 Turner Street
Lansing, MI 48906

Email scanned copies to:
EnergySmart@FranklinEnergy.com

Fax applications to: (517) 316-9027



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Customer Information (Please Print)

Name of Business		Phone	Email Address	
Mailing Address		City	State MI	ZIP Code
Installation Address		City	State MI	ZIP Code
Utility Account Number	Hours of Operation: Is this a 24-hour facility? If NO please indicate annual hrs of operation: ----- <input type="checkbox"/> Yes <input type="checkbox"/> No >			
Building Use - Please check buildings intended use from list below:				
<input type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Restaurant <input type="checkbox"/> Grocery / Supermarket <input type="checkbox"/> Manufacturing <input type="checkbox"/> Lodging <input type="checkbox"/> School: Elementary <input type="checkbox"/> Healthcare facility <input type="checkbox"/> School: College <input type="checkbox"/> Other / Miscellaneous				
Fuel type for space heating:		<input type="checkbox"/> Natural Gas <input type="checkbox"/> Electric <input type="checkbox"/> LP (Propane) <input type="checkbox"/> Oil		
How did you learn about the program?				
<input type="checkbox"/> My Utility <input type="checkbox"/> Utility Website <input type="checkbox"/> Newspaper <input type="checkbox"/> Community Event <input type="checkbox"/> Mail / Bill insert <input type="checkbox"/> Contractor <input type="checkbox"/> Other				

Name of Installing Contractor (if applicable)		Address		City	State
Contractor Phone	Contractor EMAIL:				

Certifications and Signature			
I hereby certify that: 1. The information contained in this application is accurate and complete; 2. All rules of this incentive program have been followed; 3. I have read and understand the terms and conditions included with this document.			
I agree to verification of equipment installation which may include a site inspection by a program or utility representative. I understand that I am not allowed to receive more than one incentive from this program on any piece of equipment. I hereby agree to indemnify, hold harmless and release the utility from any actions or claims in regard to the installation, operation and disposal of equipment (and related materials) covered herein, including liability from any incidental or consequential damages.			
Please sign and complete all information below.		Please indicate application Intent by checking a box -->	
		<input type="checkbox"/> Pre-approval <input type="checkbox"/> Final <input type="checkbox"/> Revised App.	
Signature	Print Name	Date Submitted	
		Date Installed	

Program Use Only			
Date Received:	Post Inspected?	Incentive Approved (yes /	Date Approved:
	Post Inspection Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Post Inspection date	Amount :\$	



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Name of Business:

Pre-approval Checklist

The pre-approval checklist needs to be filled out and submitted with applications for pre-approval. All line items designated as (Req'd) must be checked

REQUIRED:

- Application has been filled out completely with accurate and complete contact information (Req'd)
- 2 copies of billing statements are being submitted (Req'd)
- All HPT8 Lighting (Low Watt included) has been verified in the CEE1.org database by Utility Customer or Contractor. Lamps and ballast are approved (Req'd if applied for)
- All Non-lighting measures meet the minimum specifications stated in this document. High Bay lighting meets "equipment guidelines". (Req'd if applied for)
- Separate manufacturer specification sheets with part numbers are being submitted for all equipment. (fixture mounted Occ. Sensors included) (Req'd)
- Itemized quote included with at least 1 line item cost per incentive measure applied for. Quote includes intended manufacturer and part numbers. (Req'd)
- Terms and conditions have been read and are understood by all parties involved (Req'd)
- Calculations with units and formulas have been submitted for CUSTOM measures as required. Complete checklist included on the custom form (custom only)

Final application checklist - To be completed after installation

The Final application checklist needs to be filled out and submitted with applications for final approval. All line items designated as (Req'd) must be checked before submitting application

- Application has been filled out completely with accurate and complete contact information, application has been signed by customer representative receiving incentive (Req'd)
- All quantities listed in application have been verified, any deviations have been explained (Req'd)
- Final invoices have been submitted with required information (part numbers, any labor and miscellaneous mat'l related to project) (Req'd)



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Terms and Conditions

1. **Incentive Offer:** Projects must be implemented (completed) by December 31, 2010. An original signed final application and invoices for materials and labor must be returned to City of Sturgis ENERGY SMART ProgramSM, 1219 Turner Street, Lansing, MI 48906, faxed to (517)-316-9027 or emailed to EnergySmart@franklinenergy.com within 30 calendar days of installation (completion). Please keep a copy for your records.
2. **Proof of Purchase:** This application must have complete information and be submitted with 1) an invoice itemizing the new equipment purchased and 2) the manufacturer (OEM) specification sheets. The invoice must indicate date of purchase, size, type, make, model and total project cost. Inside labor (self installed) will not be accepted as part of total project cost, only labor invoiced by a qualified contractor will be accepted in total project cost.
3. **Energy Savings:** Projects must result in reduced electric energy use due to improvement in the system efficiency; control upgrades may also qualify. Reduced electric use resulting from peak shaving, demand limiting, fuel switching, power generation, renewable energy, or operating schedule changes does not qualify.
4. **Compliance:**
 - a. All projects must comply with applicable federal, state, and local laws.
 - b. All equipment must be new or retrofitted with new components per the program specifications. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed or permanently disconnected.
 - c. Equipment must meet specification requirements and be purchased and operating prior to submitting an incentive application.
 - d. Customers are eligible to receive program incentives up to the incentive limits set by the utility (see "Incentive Limit" section below) per calendar year.
 - e. Customers can submit multiple projects in a calendar year, however, the incentives cannot exceed the "Incentive Limit" cap per year.
 - f. All projects must be a retrofit / replacement installation in an existing building (not available for new construction).
 - g. If the project is in a leased building, the term of the lease must be at least five (5) years.
 - h. To qualify lighting must be used a minimum of 1,800 hours per year and other equipment must operate a minimum of 1,500 hours per year.
5. **Payment:** Once completed paperwork is submitted, incentive payments are usually made within 4-6 weeks. Incomplete applications will either delay payments or result in denial of application approval. The City of Sturgis reserves the right to refuse payment and participation if the customer or contractor violates program terms and conditions. All projects exceeding **\$2,500** of incentives will be inspected prior to incentive payment. The City of Sturgis must receive 100% of the energy savings for the rated life of the product(s) or for a period of three (3) years from receipt of rebate, whichever is less. If you do not provide the energy savings, if the facility in which the installed projects are located closes or ceases operation within the three (3) years from receipt of rebate or if you cease to be a customer of The City of Sturgis during the three (3) years, you shall refund a prorated amount of rebate dollars based on the time installed.
6. **Inspection:** Program or utility staff may conduct an inspection of the facility to survey installed projects.
7. **Publicity:** The City of Sturgis reserves the right to publicize your participation in this program, unless you specifically request otherwise.
8. **Program Discretion:** Incentives are available on a first-come, first-served basis. Incentive amounts and offerings are subject to change or termination without notice at the discretion of The City of Sturgis.
9. **Logo Use:** Customers or allies may not use The City of Sturgis nor the City of Sturgis ENERGY SMART ProgramSM name or logo in any marketing, advertising, or promotional material without written permission.
10. **Disclaimers:** The City of Sturgis
 - a. does not endorse any particular manufacturer, product, labor or system design by offering these programs;
 - b. will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives;
 - c. does not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor for detailed warranties);
 - d. is not responsible for the proper disposal/recycling of any waste generated as a result of this project;
 - e. is not liable for any damage caused by the installation of the equipment or for any damage caused by the malfunction of the installed equipment.

INCENTIVE LIMIT:

Purchase and install qualifying equipment and receive an energy efficiency incentive of up to \$7,500 per customer. All projects must receive written approval BEFORE project installation. **Incentives may not exceed 50% of the total project cost (prescriptive measures) or 40% of total project cost for custom projects, including materials and labor.** (Internal labor for self-installed projects cannot be included in the total project cost.)

ELIGIBILITY: These incentives are offered by The City of Sturgis for electric customers only. For questions regarding eligibility, call 877-NRG-SAV1 (877-674-7281).



Commercial & Industrial Application for Energy Efficiency Incentives

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A. Compact Fluorescent Fixtures and Lamps (CFL)				
Description	Specifications	Qty Installed	Incentive Per Unit	Total (Qty x Incentive)
Compact Fluorescent Light Bulb (CFL)	Replaces Incandescent Light Bulb		\$1.50	
Specialty CFL (spot lamp, 3 way, Dimm.)	Replaces Incandescent Light Bulb W/ specialty CFL		\$4.00	
CFL Fixture	Replaces incandescent fixture with permanently wired		\$20.00	
TOTAL FOR SECTION A:				\$0.00

B. High-Performance T8 Fluorescent Systems (CEE Qualified Only)				
Replace T12 systems with CEE Qualified High Performance (super) T8 systems. Lamps and ballasts used must meet the CEE specifications for High Performance T8 Systems. See "Commercial Lighting" at www.cee1.org for approved lamp and ballast list. Replacement fixtures or lamp and ballast retrofits are eligible. For standard T8 to HPT8 replacement / retrofit use the custom application form.				
Description	Specifications	Qty Installed	Incentive Per Unit	Total (Qty x Incentive)
HPT8 4ft 1 lamp	Replacement or retrofit of T12 4ft 1 lamp		\$5.00	
HPT8 4ft 2 lamp	Replacement or retrofit of T12 8ft 1 lamp		\$6.00	
	Replacement or retrofit of T12HO 8ft 1 lamp		\$14.00	
HPT8 4ft 2 lamp	Replacement or retrofit of T12 4ft 2 lamp		\$8.00	
	Replacement or retrofit of T12 4ft 3 lamp		\$12.00	
HPT8 4ft 3 lamp	Replacement or retrofit of T12 4ft 3 lamp		\$12.00	
HPT8 4ft 4 lamp	Replacement or retrofit of T12 8ft 2 lamp		\$12.00	
	Replacement or retrofit of T12HO 8ft 2 lamp		\$25.00	
	Replacement or retrofit of T12 4ft 4 lamp		\$16.00	
De-Lamping (per lamp incentive)	Permanent lamp removal combined with HPT8 ballast and lamp retrofit - applies to T12 to HPT8 LW retrofits as well		\$4.00	
TOTAL FOR SECTION B:				\$0.00

C. Low Watt T8 Fluorescent Systems (CEE Qualified Only)				
Replace T8 / T12 systems with 28 and 25 watt CEE Qualified Reduced Wattage T8 Systems. Lamps and ballasts used must meet the CEE specifications for Reduced Wattage T8 Systems. See "Commercial Lighting" at www.cee1.org for approved lamp and ballast list. Incentive shown includes low wattage fluorescent lamp incentive of \$0.75 per lamp. Replacement fixtures or lamp and ballast retrofits are eligible.				
Description	Specifications	Qty Installed	Incentive Per Unit	Total (Qty x Incentive)
Low Watt T8 lamps 25W or 28W	Replacement of 32W T8 4ft lamps		\$0.75	
LW HPT8 4ft 1 lamp	Replacement or retrofit of T8 4ft 1 lamp		\$4.00	
LW HPT8 4ft 2 lamp	Replacement or retrofit of T8 4ft 2 lamp		\$7.00	
LW HPT8 4ft 3 lamp	Replacement or retrofit of T8 4 ft 3 lamp		\$10.00	
LW HPT8 4ft 4 lamp	Replacement or retrofit of T8 4ft 4 lamp		\$12.00	
LW HPT8 4ft 1 lamp	Replacement or retrofit of T12 4ft 1 lamp		\$6.00	
LW HPT8 4ft 2 lamp	Replacement or retrofit of T12 4ft 2 lamp		\$8.00	
LW HPT8 4ft 3 lamp	Replacement or retrofit of T12 4 ft 3 lamp		\$12.00	
LW HPT8 4ft 4 lamp	Replacement or retrofit of T12 4ft 4 lamp		\$16.00	
TOTAL FOR SECTION C:				\$0.00

LIGHTING MEASURES - PAGE 2.

D. High Bay Fluorescent Fixtures - T8 or T5HO High-Bay Fluorescent Fixtures with Electronic Ballasts. One for one replacement of specific wattage HID (Metal Halide, Mercury Vapor and High Pressure Sodium) or Incandescent Fixtures. Incentive paid @ \$0.35 / Watt reduced (saved). Note: minimum incandescent wattage for replacement is 250W. See standard Wattage table in the Equipment Guidelines tab

Description	Include description of High Bay upgrade: (Existing: type, wattage**) (New: type, wattage, number of lamps)	Qty Installed	Watts Saved Per Unit	Incentive
		A	B	(A X B X 0.35)
HID to T5 HO / F32T8 High Bay	Existing:			
	New:			
HID to T5 HO / F32T8 High Bay	Existing:			
	New:			
HID to T5 HO / F32T8 High Bay	Existing:			
	New:			
Other High Bay technology to T5 HO / F32T8	Existing:			
	New:			
Note: All lighting changes must meet IESNA Standards for lighting levels with respect to facility / area installed				
TOTAL FOR SECTION D:				\$0.00

E. Other Efficient Lighting Technologies and Controls				
Description	Specifications	Qty Installed	Incentive Per Unit	Total (Qty x Incentive)
Pulse Start Metal Halide (PSMH), (retrofit only)	320 W PSMH replacing 400 Watt or larger HID, must be permanently wired ballast and lamp retrofit, or new fixture.		\$60.00	
Occupancy Sensor < 500W	Incentive is per sensor. May be wall or ceiling mounted. Rapid or programmed start ballasts are recommended for fluorescent fixtures. Socket based sensors do not qualify.		\$30.00	
Occupancy Sensor > 500W			\$50.00	
LED Exit Sign New Fixture or Hardwired Retrofit Kit	Replace or retrofit existing sign <input type="checkbox"/> Incandescent <input type="checkbox"/> Fluorescent		\$12.50/ Fixture	
Central Lighting Controls	10,000 sq ft min. \ Requires pre-approval \ Requires control plan		\$600.00	
LED Traffic Signal	Retrofit of existing signals - all signal lamps must be replaced		\$20.00	
TOTAL FOR SECTION E:				\$0.00

Total for Lighting Measures	\$0.00
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A. Central Packaged and Split System Air Conditioning (including Rooftop Units)

For split systems, the indoor coil and condenser must be a matched set to be eligible.

Description	Size	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
<65,000 BTUH (1 ph)	< 5.4 tons	14.0 SEER	\$30.00			
<65,000 BTUH (3 ph)	<5.4 tons	11.6 EER	\$30.00			
65,000 – 134,000 BTUH	5.4–11.3 tons	11.5 EER	\$40.00			
135,000 – 239,000 BTUH	11.4–20.0	11.5 EER	\$40.00			
240,000 – 759,000 BTUH	20.1–63.3	10.5 EER	\$40.00			
TOTAL FOR SECTION A:						\$0.00

B. Central Packaged and Split System Air Source Heat Pumps (including Rooftop Units)

For split systems, the indoor coil and condenser must be a matched set to be eligible.

Description	Size	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
<65,000 BTUH (1 ph)	<5.4 tons	14.0 SEER	\$30.00			
<65,000 BTUH (3 ph)	<5.4 tons	11.6EER	\$30.00			
65,000 – 134,000 BTUH	5.4-11.3 tons	11.5 EER	\$40.00			
135,000 – 239,000 BTUH	11.4-20.0 tons	11.5 EER	\$40.00			
240,000 – 759,000 BTUH	> 20.0 tons	10.5 EER	\$40.00			
TOTAL FOR SECTION B:						\$0.00

C. Air Cooled Chillers

Description (Size)	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
All Sizes	1.2 kW/Ton Full Load	\$30.00			
TOTAL FOR SECTION C:					\$0.00

D. Water Cooled Chillers

Qualifying units must meet listed full and part load efficiencies.

Description (Size)	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
<150 Ton	0.79 kW/ton full load 0.49 kW/ ton part load (IPLV)	\$25.00			
150 – 300 Ton	0.63 kW/ton full load 0.44 kW/ ton part load (IPLV)	\$40.00			
> 300 Ton	0.58 kW/ton full load 0.44 kW/ ton part load (IPLV)	\$40.00			
TOTAL FOR SECTION D:					\$0.00

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NON-LIGHTING PAGE 2.

E. Three Phase Electric Motors							
Use the NEMA Premium Motor Efficiencies in the "Equipment Guidelines" section for qualifying efficiencies. Rebuilt, rewound, redundant, or backup units do not qualify.							
Description	Efficiency %	RPM	ODP or TEFC	HP	Incentive Per HP	Qty	Total Incentive (HP x Incentive/HP x Qty)
1 – 5 HP					\$10.00		
7.5 – 20 HP					\$8.00		
25 – 100 HP					\$5.00		
125 – 250 HP					\$3.00		
TOTAL FOR SECTION E:							\$0.00

F. Variable Frequency Drives					
Drives must be used in pumping or air handling applications related to HVAC only. VFDs must be automatically controlled by a variable signal, and have load diversity that will result in savings through motor speed variation. Redundant unit, back-up units, and replacements of existing VFDs do not qualify.					
VFD Application (Fan or Pump, Equipment Served)	Controls before VFD	HP	Incentive Per HP	Qty	Total Incentive (HP x Incentive/HP x Qty)
			\$60.00		
			\$60.00		
TOTAL FOR SECTION F:					\$0.00

G. Miscellaneous Equipment			
Equipment must be on the list of qualifying ENERGY STAR equipment to be eligible for an incentive. Please see the Commercial Food Service subsection under the Products section at www.energystar.gov for a list of qualifying products.			
Description	Incentive Per Unit	Qty	Total Incentive (Incentive/Unit x Qty)
Vending Equipment Controller (for cold beverage machines)	\$50.00		
ENERGY STAR Commercial Solid Door Refrigerator Less than 20ft3	\$125.00		
ENERGY STAR Commercial Solid Door Refrigerator between 20 to 48ft3	\$250.00		
ENERGY STAR Commercial Solid Door Refrigerator more than 48ft3	\$450.00		
ENERGY STAR Commercial Solid Door Freezer Less than 20ft3	\$75.00		
ENERGY STAR Commercial Solid Door Freezer Between 20 to 48ft3	\$200.00		
ENERGY STAR Commercial Solid Door Freezer More than 48ft3	\$350.00		
ENERGY STAR Ice Machines Less than 500 lbs	\$300.00		
ENERGY STAR Ice Machines 500 to 1,000 lbs	\$450.00		
ENERGY STAR Ice Machines More than 1,000 lbs	\$1,000.00		
Anti-sweat Heater Controls - Per Door Controlled Incentive	\$80.00		
Pre Rinse Sprayers < 1.6 gpm (electric water heating required)	\$25.00		
TOTAL FOR SECTION G:			\$0.00

NON-LIGHTING TOTAL INCENTIVE:	\$0.00
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Commercial & Industrial Application

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Step 1:

Submit Completed Application for Pre-approval: Written approval (notice to proceed) must be obtained by The City of Sturgis before purchase or installation of new equipment or systems. **The following checklist will help you identify needed information to ensure quick analysis and approval of your application.** Direct inquiries to 877-NRG-SAV1 (877-674-7281).

- Include description of current condition and description of proposed changes
- List all known factors, assumptions and issues in any calculations you provide for kW and kWh energy savings
- Provide clear and logical step-by-step calculations detailing the estimated savings
- Show all units in the calculations
- Provide a copy of the vendor proposal showing calculations and pricing detail
- Spreadsheets are accepted and encouraged; however calculation methods must be shown separately and clearly

For Steps 2, 3, 4, 5 & 6 please see "Instructions" tab / sheet

Directions for submitting energy savings estimates. On a separate sheet(s) of paper, please:

1. Describe the project in one-to-two paragraphs
2. List all known factors, assumptions and issues in any calculations you provide for kW and kWh energy savings.
3. Provide clear and logical step-by-step calculations detailing the estimated energy savings.
4. Show all units in the calculations
5. Provide a copy of the vendor proposal showing pricing detail.
6. Spreadsheets are accepted and encouraged; however, state calculation methodologies separately and clearly.

Estimated Project Savings					
Measure Description ^e		Demand (KW)	Annual Energy Savings (kWh)	Total Savings (\$) ^a	Measure Cost (\$) ^{b,c,d}
1					
2					
3					
4					
Totals:		-	-	\$ -	\$ -

^a All savings resulting from the project, to include - but not limited to - savings from energy reduction, maintenance, etc.

^b Measure cost is either the cost to remove/replace existing operational equipment, or it is the incremental cost to upgrade non operational equipment from standard efficiency to high efficiency equipment. See instructions for additional information.

^c Costs itemized by measure are required.

^d Include contracted labor costs, disposal, permit fees, etc, related to the project.

^e Measure refers to specific energy efficient project components. Examples would be "chiller replacement," "energy efficiency lighting conversion," "VSD air compressor replacement," etc.

^f Projects are paid at \$0.08 per kWh, up to 40% of the project cost, whichever is lower.

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CUSTOM MEASURES PAGE 2, DECLARATIONS, CALCULATIONS, INCENTIVE INFORMATION & PROGRAM USE

SAMPLE CALCULATIONS

Demand kW (Fixture Wattage X Fixture Quantity) / 1000

kWh and kWh Savings kWh = kW (see above) X Annual Hours of Operation

kWh Savings = Original kWh - New kWh

Annual Energy Savings \$ Annual Savings \$\$ = kWh Savings X Elect. Rate (\$/kWh)
Note: Electric Rates can be found on a customer's utility bill

INCENTIVE INFORMATION

Custom incentives are calculated using a rate of \$0.08 / annual kWh saved. All projects must have a payback period between 2 and 7yrs. Custom projects will either be paid at the calculated incentive or 40% of total project cost whichever is lower.

I hereby certify that: 1. The information contained in this application is accurate and complete; 2. All rules of this incentive program have been followed and 3. I have read and understand the terms and conditions included with this document.

I agree to verification of equipment installation which may include a site inspection by a program or utility representative. I understand that I am not allowed to receive more than one incentive from this program on any piece of equipment. I hereby agree to indemnify, hold harmless and release the utility from any actions or claims in regard to the installation, operation and disposal of equipment (and related materials) covered herein, including liability from any incidental or consequential damages.

Please sign and complete all information below.

Signature	Print Name	Date Submitted

For Administrator's Use Only

Measure Description	Demand (KW)	Annual Energy Use (kWh)	Total Savings (\$) ^a	Measure Cost ^{b, c}	Status	Tracking Number	NOTES
					<input type="radio"/> Accept <input type="radio"/> Reject		
					<input type="radio"/> Accept <input type="radio"/> Reject		
					<input type="radio"/> Accept <input type="radio"/> Reject		
					<input type="radio"/> Accept <input type="radio"/> Reject		



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Equipment Guidelines: Lighting

HPT8 Lighting Retrofits: Retrofits of T12 lighting to HPT8 lighting requires a ballast and lamp retrofit to HPT8 components listed in the 32 Watt HPT8 "approved" database that can be found at www.cee1.org/com/com-lt/lamps-ballasts.xls

HPT8 LW Lighting Retrofits: Retrofits of T12 or Standard T8 lighting to Low Watt HPT8 lighting requires a ballast and lamp retrofit to LW HPT8 components listed in the LW HPT8 "approved" database found at www.cee1.org/com/com-lt/RW-lamps-ballasts.xls

High Bay Fluorescent replacing HID High Bay Fixtures: Fluorescent high bay fixtures must be "marketed" as either High Bay fixtures or as F-Bay fixtures and typically include a "high" ballast factor ballast, reflector and 4100 - 6000K Lamps. A ballast factor greater than 1.1 & a specular reflector are required. High bay fixtures are not required to be on the CEE1.org "approved database".

Central Lighting Controls: ALL CENTRAL LIGHTING CONTROLS REQUIRE PRE-APPROVAL and must control 10,000 sq ft (min). Control plans will be required for pre-approval showing functional control and reduction in operating time due to precise automatic control

Standard Wattage Table for High-Bay Measures

<u>Current High Bay System</u>	<u>Input Watts</u>	<u>Energy Efficient T5/T8 Systems</u>	<u>Input Watts</u>
HID 50W	61	F32T8 4L	144
HID 75W	95	F32T8 6L	220
HID 100W	120	F32T8 8L	264
HID 150W	167	T5 H.O. 3L	185
HID 175W	210	T5 H.O. 4L	243
HID 200W	230	T5 H.O. 6L	365
HID 400W	455	T5 H.O. 8L	486
HID 1000W	1080		
T12 VHO 2L	380		

Energy Efficient Fixture Wattage will vary by fixture / manufacturer and may be modified from the above table if specification sheet provides actual ballast input Wattage (to be determined by program engineering at pre-approval only), otherwise the Wattage listed above will be used for High Bay Lighting Watts saved calculations

Equipment Guidelines Page 2

Equipment Guidelines: Non - Lighting

VFD's: For listed incentive, the VFD must be installed on HVAC equipment including but not limited to boiler circulation pumps on space heating boilers and VFDs added to HVAC blower motors / compressors / fans. VFDs used in "process" equipment such as conveyors or coolant pump applications will be considered on a custom application basis.

Motors

Table 1: Nominal Efficiencies For "NEMA PremiumTM" Induction Motors

HP	Open Drip-Proof			Totally Enclosed Fan-Cooled		
	1200 RPM	1800 RPM	3600 RPM	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77	82.5	85.5	77
1.5	86.5	86.5	84	87.5	86.5	84
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91	88.5	91	91.7	89.5
10	91.7	91.7	89.5	91	91.7	90.2
15	91.7	93	90.2	91.7	92.4	91
20	92.4	93	91	91.7	93	91
25	93	93.6	91.7	93	93.6	91.7
30	93.6	94.1	91.7	93	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93	94.1	94.5	93
60	94.5	95	93.6	94.5	95	93.6
75	94.5	95	93.6	94.5	95.4	93.6
100	95	95.4	93.6	95	95.4	94.1
125	95	95.4	94.1	95	95.4	95
150	95.4	95.8	94.1	95.8	95.8	95
200	95.4	95.8	95	95.8	96.2	95.4

*****Disclaimer:** These equipment guidelines are subject to change by program administration at any time without notice. These guidelines can be modified by the program personnel only and will not be open for interpretation by applicants. Program engineering reserves the right to apply and override information if deemed necessary for program reasons or concerns relating to project application / program budget management.