

Application Instructions

- Complete the application form for each installation account number.
- Complete the Lighting Program worksheet.
- Include all required documentation including detailed customer-approved invoices, proof of purchase, receipts, technical specifications, studies/proposals, work papers, etc.
- NOTE: Sending inadequate invoice documentation, incomplete/incorrect forms, or backup information will delay any potential incentive payment. Make a copy of this document for your records.
- Submit all information to AEP Ohio. All completed submissions become the property of AEP Ohio. Make a copy of all documents for your records.

FORM SUBMITTAL: Please note all Rules and Requirements.
Return the signed, completed form and all required detailed documentation to:

Mail: AEP Ohio
6031 East Main Street, Suite 190
Columbus, OH 43213

Fax: 877-607-0740

Email: gridsmartohio@kema.com

Questions: Call 877-607-0739

Visit **gridsmartohio.com** for more information on the Lighting Program and other energy efficiency incentive programs offered by AEP Ohio.

THIS INCENTIVE APPLICATION FORM IS VALID THROUGH DECEMBER 15, 2009

PROJECT ID: _____

Pre-approval Application

Final Application

SECTION 1: CUSTOMER INFORMATION (please print)

Company Name		Date Submitted
Mailing Address		
City	State	Zip Code
Contact Name	Phone	Fax
Contact E-mail*		
Taxpayer ID #	Tax Status: <input type="checkbox"/> Corporation (Inc. LLC, PC, etc.) <input type="checkbox"/> Tax Exempt <input type="checkbox"/> Other (Individual, Partnership – may receive 1099)	
Building Type	<input type="checkbox"/> Office <input type="checkbox"/> School (K-12) <input type="checkbox"/> College <input type="checkbox"/> Retail/Service <input type="checkbox"/> Restaurant <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> Medical <input type="checkbox"/> Grocery <input type="checkbox"/> Warehouse <input type="checkbox"/> Light industry <input type="checkbox"/> Heavy Industry <input type="checkbox"/> Government/Municipal <input type="checkbox"/> Other _____	

SECTION 2: COMPLETION AND CUSTOMER PAYMENT INFORMATION

Attention to	Total Amount Requested
Taxpayer ID #	Total Project Cost \$
Tax Status: <input type="checkbox"/> Corporation (Inc. LLC, PC, etc.) <input type="checkbox"/> Tax Exempt <input type="checkbox"/> Other (Individual, Partnership – may receive 1099)	Project Completion Date \$

SECTION 3: JOB SITE INFORMATION (where equipment was installed)

Job Site Name	AEP Ohio Account Number	Project Contact Name
Job Site Address (physical location)		Project Contact Telephone
City	State	Zip Code
Project Contact Email		
Construction Type: <input type="checkbox"/> New Construction <input type="checkbox"/> Existing Building <input type="checkbox"/> Major Renovation		

SECTION 4: LIGHTING CONTRACTOR INFORMATION (equipment or service provider/ installer)

Lighting Contractor Name			
Lighting Contractor Street Address	City	State	Zip Code
Lighting Contractor Contact Name	Contact Telephone	Contact Email	

* By providing your e-mail address, you are granting AEP Ohio permission to send further e-mails regarding our programs and services.

Lighting Program Rules and Requirements

Columbus Southern Power Company and Ohio Power Company are collectively known as AEP Ohio ("AEP Ohio"). AEP Ohio provides energy-efficiency rebates for the purchase and installation of qualifying equipment under the Rules and Requirements provided in this incentive application.

Customer Qualifications

This program applies to non-residential customers served at AEP Ohio's regulated retail rates, where qualifying projects are installed in a facility in AEP Ohio's electric service territory.

Terms and Conditions

- THIS INCENTIVE APPLICATION FORM, WHICH IS FOR THE BUSINESS LIGHTING PROGRAM (the "Program") IS VALID FOR SUBMITTAL UNTIL DECEMBER 15, 2009. AEP Ohio incentive programs may be changed or cancelled at any time without notice. The customer and its contractor are solely responsible for contacting AEP Ohio to ask whether or not the program is still in effect and to verify program parameters.
- Program funding is limited and subject to availability.
- Contact AEP Ohio for pre-approval prior to equipment purchase and to reserve funds in the Program for those projects to be completed in 2009.
- To ensure maximum program participation, AEP Ohio reserves the right to limit funding on a per project basis.
- The incentive payment shall be the lesser of:
 - 50% of the total project cost.
 - The calculated incentive, as approved by AEP Ohio.
- All equipment must be new; used or rebuilt equipment is not eligible for an incentive.
- Projects must be installed on the AEP Ohio electric account listed on the application.
- Equipment must be purchased, installed, and operating (or capable of operating in the case of seasonal uses) prior to submitting a final application for an incentive.
- A signed application with documentation and installation invoice(s) must be submitted to AEP Ohio within 60 calendar days of the installation completion date. All completed submissions become the property of AEP Ohio and will not be returned. Keep a copy for your records.
- Proposed equipment must meet the technical specifications. AEP Ohio reserves the right to withhold payment for products that do not meet the requirements.
- Eligibility and incentive payments are standardized in this Program.
- AEP Ohio will issue incentives in the form of checks, not utility bill credits.
- Incentives are paid as a one-time, one-program offer and cannot be combined with incentive payments from other AEP Ohio programs. The Customer may be eligible to participate in other programs offered by AEP Ohio, as long as no project is incentivised more than once.
- All documentation and verification is subject to strict confidentiality.

- AEP Ohio reserves the right to randomly inspect customer facility(ies) for installation of materials listed on this incentive application and will need access to survey the installed project. If the inspection finds that Customer did not comply with program rules and requirements, any incentive received under this Program must be returned to AEP Ohio, with interest. In addition, AEP Ohio reserves the right to withhold payment for projects that do not meet reasonable industry standards as determined by AEP Ohio.
- AEP Ohio reserves the right to refuse payment and participation if the customer or contractor violates program rules and procedures. AEP Ohio is not liable for incentives promised to customers as a result of misrepresentation the program.
- The Customer understands and agrees that all other terms and conditions apply, as specified in this application, including all attachments and exhibits attached to this application.
- AEP Ohio reserves the right to request additional backup information, supporting detail, calculations, manufacturer specification sheets or any other information prior to granting any incentive payment.
- All completed submissions become the property of AEP Ohio.

Disclaimers

AEP Ohio:

- Does not endorse any particular manufacturer, product or system design by offering these incentives.
- Will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives. AEP Ohio will report incentives greater than \$600 as income on IRS form 1099. Such incentives shall be taxable unless Customer meets acceptable tax exemption criteria. Customers are encouraged to consult with their tax advisors about the taxability of any incentive payments.
- Does not expressly or implicitly warrant the performance of installed equipment (contact your contractor for detailed equipment warranties).
- Is not responsible for the proper disposal/recycling of any waste generated as a result of this project.
- Is not liable for any damage caused by the operation or malfunction of the installed equipment.
- Does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program.

By signing here, I acknowledge the information on this application is accurate and complete. I confirm I have read, agree with and understand the Rules and Requirements on page 2 of this application.

Customer Signature _____

Date _____

LIGHTING INCENTIVES

Equipment Type	Incentive	Unit	# of Units	Incentive Subtotal
Screw in Compact Fluorescent Lamps				
5-15 Watts	\$2.00	Lamp		
16-26 Watts	\$2.00	Lamp		
27 Watts or higher	\$3.00	Lamp		
Hardwired Compact Fluorescent Fixtures				
29W or Less	\$30.00	Fixture		
30W or Greater	\$60.00	Fixture		
T12 to T8 Conversion (with electronic ballast)				
2-foot & 3-foot T12 to T8	\$6.00	Lamp		
4-foot T12 U Tube to T8 U Tube	\$5.00	Lamp		
4-foot T12 to High-Performance T8 or Reduced Wattage T8	\$7.00	Lamp		
8-foot T12 to Reduced Wattage T8	\$7.00	Lamp		
Standard T8 to Reduced Wattage T8 (Lamp Only)				
4-foot T8 to RW T8 (lamp only)	\$1.00	Lamp		
8-foot T8 to RW T8 (lamp only)	\$1.00	Lamp		
Delamping (Combined with T8 ballast retrofit)*				
2-foot & 3-foot delamping	\$5.00	Lamp Removed		
4-foot delamping	\$7.50	Lamp Removed		
8-foot delamping	\$12.50	Lamp Removed		
LED Exit Signs Electronic Fixtures (Retrofit Only)				
LED Exit Signs	\$25.00	Fixture		
Cold Cathode Lamps				
Cold Cathode Lamps	\$5.00	Lamp		
Lighting Occupancy Sensors*				
Lighting Occupancy Sensors	\$90.00	Controlled kW		
New T8/T5 Fixture*				
New T8/T5 Fixture	\$350.00	kW Reduction**		
Total Lighting Incentives				
			Total	\$
New Construction / Major Renovation				
Lighting Occupancy Sensors				
Lighting Occupancy Sensors	\$90.00	Controlled kW		
Lighting Density (New Construction Only)*				
Lighting Density	\$400.00	kW Reduction**		

Cannot exceed 50% of project cost.

*Lighting layouts, fixture counts and calculation spreadsheets are required.

**kW (kilowatt) reduction is calculated by subtracting the retrofit kilowatts from the base connected kilowatts.

Total project cost: _____

Project Completion Date: _____

RETROFIT LIGHTING SPECIFICATIONS

All lighting projects are expected to comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels or the local code. Visit the Consortium for Energy Efficiency's (CEE) website, www.cee1.org, for a listing of eligible lamps and ballasts.

Screw in Compact Fluorescent Fixtures

Screw-in CFLs must be ENERGY STAR® rated lamps with an efficacy of ≥ 40 lumens per watt (LPW).

Hardwired Compact Fluorescent Fixtures

For interior hardwired CFL fixtures, only new fixtures or modular hardwired retrofits with hardwired electronic ballasts qualify. The CFL ballast must be programmed start or programmed rapid start with a power factor (PF) ≥ 90 and a total harmonic distortion (THD) $\leq 20\%$.

T12 to T8 Conversion (With Electronic Ballast)

High Performance lamps

This measure consists of replacing existing T12 lamps and magnetic ballasts* with high performance T8 lamps, reduced wattage T8 lamps, U Tube T8 lamps and electronic ballasts. This measure is based on the Consortium for Energy Efficiency (CEE) high performance T8 specification (www.cee1.org) and is summarized below. A list of qualified lamps and ballasts can be found at: www.cee1.org. U tube T8 lamps must have color rendering index (CRI) ≥ 80 . Both the lamp and ballast must meet the specification in order to qualify for an incentive. Incentives for this measure are calculated per lamp installed. A manufacturer's specification sheet must accompany the application. Please make sure all high performance lamps that are installed are qualified by the CEE website that is listed above.

Reduced Wattage lamps

Incentives are available for replacing T12 systems with reduced wattage T8 lamps and electronic ballast systems. The lamps and ballasts must meet the Consortium for Energy Efficiency (CEE) specification (www.cee1.org). Qualified lamps and ballast products can be found at www.cee1.org. Both the lamp and ballast must qualify in order to receive an incentive for the system. The mean system efficacy must be ≥ 90 MLPW, CRI ≥ 80 , and have lumen maintenance of at least 94%. Visit the CEE site for further qualifications and a list of pre-qualified lamps and ballasts. Incentives are also available for replacing 59 Watt T8 lamps with reduced wattage 8-foot T8 lamps. Lamps must have a minimum MLPW of 90 and must have a nominal wattage of less than 57W. The incentive is calculated on a per lamp basis and ballast replacement is not necessary. A manufacturer's specification sheet must accompany the application. Please make sure all reduced wattage lamps that are installed are qualified by the CEE website that is listed above.

T12 Delamping (Combined w/ T8 ballast retrofit)

Incentives are paid for the permanent removal of existing fluorescent lamps. Permanent lamp removal is the net reduction in the quantity of lamps after a project is completed. Customers are responsible for determining whether or not to use reflectors in combination with lamp removal in order to maintain adequate lighting levels. Lighting levels are expected to meet the Illuminating Engineering Society of North America (IESNA) recommended light levels. Unused lamps, lamp holders, and ballasts must be permanently removed from the fixture and disposed of in accordance with local regulations. This measure is applicable when retrofitting from T12 lamps to T8 lamps or reconfiguring a T8 fixture to reduce the number of lamps. Removing lamps from a T12 fixture that is not being retrofitted with T8 lamps are not eligible for this incentive. A pre-approval application is required for lamp removal projects in order for AEP Ohio to conduct a pre-retrofit inspection.

LED Exit Signs Electronic Fixtures (Retrofit Only)

High-efficiency exit signs must replace or retrofit an existing incandescent exit sign. T1, and light-emitting diode (LED) exit signs are eligible under this category. Non-electrified and remote exit signs are not eligible. All new exit signs or retrofit exit signs must be UL or ETL listed, have a minimum lifetime of 10 years, and have an input wattage ≤ 5 Watts per face or be ENERGY STAR® qualified.

Cold Cathode Lamps

All Cold Cathode Fluorescent Lamps (CCFLs) must replace incandescent lamps of greater than or equal to 10 Watts and not greater than 40 Watts. Cold cathode lamps may be medium (Edison) or candelabra base. Product must be rated for at least 18,000 average life hours.

Lighting Occupancy Sensors

Passive infrared, ultrasonic, and fixture-integrated sensors with a combination thereof are eligible. All sensors must be hard-wired and control interior lighting fixtures. The incentive is per Watt controlled. To assist in rebate processing, please provide the inventory of the controlled fixtures with the final application. Incentives are also available for new fixtures with integrated occupancy controls. These fixtures must meet specifications for both new fixtures and control measures.

New T5/T8 Fixture

This measure consists of replacing any existing lighting system with new fixtures containing T8 or T5 lamps and electronic ballasts. The T8 or T5 lamps must have a color rendering index (CRI) ≥ 80. The electronic ballast must be high frequency (≥ 20 kHz), UL listed, and warranted against defects for 5 years. Ballasts must have a power factor (PF) ≥ 0.90. Ballasts for 4-foot lamps must have total harmonic distortion (THD) ≤ 20% at full light output. For 2- and 3-foot lamps, ballasts must have THD ≤ 32% at full light output. High output T5/T8 lamps also qualify for this rebate. Total replacement wattage must be lower than existing wattage to ensure energy savings.

Incentives for this measure are calculated based on the reduction in connected kilowatts. A pre-approval application is required for this measure in order for AEP to conduct a pre-retrofit inspection. Specifications of the new fixtures, lamps and ballasts, must accompany the final application. **Incentives are only available for new fixtures.**

TABLE 1. EXAMPLE PROJECTS	
Example #1 2 Lamp 8' to 2 lamp HP 4' T8	
Base	2 lamp, 8 foot T12 fixture
Retrofit	2 lamp, 4 foot High Performance T8 fixture
Incentive Calculation	[Qty = 1 T12 8-foot delamp] + [Qty = 2 4-foot T12 to High Performance T8] [1 x \$12.50] + [2 x \$7]
Total Incentive	\$26.50
Example #2 4 Lamp T12 to 2 Lamp RW T8	
Base	4 lamp, 4 foot T12 fixture
Retrofit	2 lamp, 4 foot Reduced Wattage T8 fixture
Incentive Calculation	[Qty = 2 4-foot T12 to Reduced Wattage T8] + [Qty = 2 T12 4-foot delamp] [2 x \$7] + [2 x \$7.50]
Total Incentive	\$29.00
Example #3 New T5/T8	
Base	400W Metal halide
Retrofit	6-4' T8 fixture
Incentive Calculation	Base wattage = 455 W Retrofit wattage = 205 W (455 W – 205 W) / 1000 = 0.25 kW reduction (0.25 kW) x (\$350/kW reduction)
Total Incentive	\$87.50

Lighting Density (New Construction)

This incentive applies to the installation energy efficient lighting with LPD in **Watts per square foot** less than values listed in ASHRAE 90.1-2004 corresponding to the building type (See table below). A total building power density reduction of $\geq 10\%$ is required to qualify for the incentive.

TABLE 2. MAXIMUM LIGHTING POWER DENSITY BY AREA TYPE			
Building Type	Lighting Power Density (W/ft ²)	Building Type	Lighting Power Density (W/ft ²)
Automotive	0.9	Motion Picture Theatre	1.2
Convention Center	1.2	Multi-Family	0.7
Court House	1.2	Museum	1.1
Dining: Bar Lounge/Leisure	1.3	Office	1.0
Dining: Cafeteria/Fast Food	1.4	Parking garage	0.3
Dining: Family	1.6	Penitentiary	1.0
Dormitory	1.0	Performing Arts Theatre	1.6
Exercise Center	1.0	Police/Fire Station	1.0
Gymnasium	1.1	Retail	1.5
Health Care	1.0	School/University	1.2
Hospital	1.2	Sports Arena	1.1
Hotel	1.0	Town Hall	1.1
Library	1.3	Transportation	1.0
Manufacturing Facility	1.3	Warehouse	0.8
Motel	1.0	Workshop.	1.4

- Light levels should meet IES recommendations for each space type.
- Documentation showing how LPD was calculated must accompany final application.
- Area is gross lighted area of each space type.
- Incentive is for interior lighting only (except parking garage).
- Installed interior lighting power includes all power used by the luminaries, including lamps, ballasts, current regulators, and control devices.

The following lighting equipment and applications are excluded from the calculation of interior lighting power:

1. Display or accent lighting for galleries, museums, and monuments.
2. Lighting integral to equipment, instrumentation, or appliances.
3. Lighting in retail display windows.
4. Lighting integral to advertising or directional signage, or exit signs.
5. Lighting for theatrical purposes, including performance, stage, film, and video production.
6. Lighting for television broadcasting in sporting activity areas.

Use the following procedure to calculate the actual Lighting Power Density of the building or space:

1. Determine the building type(s) and LPD baseline(s) from the table on the Lighting Worksheet.
2. Determine the gross lighted area corresponding to the building type and enter in Lighting Worksheet.
3. Determine the interior lighting power for corresponding building type and enter in Lighting Worksheet.
4. Incentive = (LPD baseline – LPD actual) x Gross Lighted Area x \$0.35.
5. Must have total building power density reduction of $\geq 10\%$ to qualify for incentive.

*PCB ballasts and lamps are hazardous materials and should be disposed of properly.