

# PPL Electric Utilities E-power Incentives

## Prescriptive & Custom Project Application June 1, 2012 - May 31, 2013

PPL Electric Utilities is offering rebates on qualifying purchases retroactive to July 1, 2009. Some restrictions apply. The rebate may not exceed the total project costs (not including internal labor).

All incentives listed in this application are available through May 31, 2013, and applications must be postmarked by June 30, 2013. Incentive applications submitted after the deadline may be incented at a different rate, depending on the current program structure.

### Eligibility for E-power Rebates

- Only PPL Electric Utilities customers may apply for this rebate.
- Install the equipment where there is an active meter using PPL Electric Utilities services.
- Installation must be complete by May 31, 2013 for incentives listed in this application.
- Equipment must meet program requirements (specifications).

### How to Participate

1. Read the Application Checklist to determine what you will need to submit, which includes:
  - a. A completed signed incentive application including all inventory worksheets and documentation, as appropriate for the equipment installed.
  - b. Pre-approval applications are strongly encouraged to reserve funds for all projects not yet completed and are required for Custom Incentive Projects and Technical Study Applications.
  - c. Custom Incentive Project applications for Large Commercial and Industrial customers will be placed on a waitlist. Technical Study applications are no longer being accepted for Large Commercial and Industrial customers and are not being waitlisted. Technical Study pre-approval applications for Small Commercial and Industrial customers and Institutional customers will not be accepted after December 31, 2011.
  - d. An itemized receipt or invoice with the manufacturer, model number and purchase price of each qualifying product (for final application only).
2. Make a copy of all submissions for your own records and mail submission to address below.
3. If you prefer the incentive be sent to someone other than yourself, complete the "Third Party Payment Release Authorization" found in the Final Application Agreement Form. Your incentive will be sent when all completed project documentation is received and verified.

**FINAL APPLICATIONS LACKING PROPER DOCUMENTATION WILL NOT QUALIFY.**

**KEMA**  
**c/o PPL Electric Utilities**  
**2 North Ninth Street (GENGA2)**  
**Allentown, PA 18101**  
**Phone: 1-866-432-5501**  
**Fax: 1-866-372-3978**  
[EpowerSolutions@kema.com](mailto:EpowerSolutions@kema.com)  
[www.pplelectric.com/e-power](http://www.pplelectric.com/e-power)

# APPLICATION CHECKLIST

## PPL Electric Utilities E-power Incentives

### INSTRUCTIONS

- 1) Complete pre-approval application checklist before commencing with construction (recommended for all projects, required for Custom Incentive and Technical Studies).
- 2) Complete final application checklist to initiate final review and payment process.
- 3) Complete and submit only the worksheets applicable to the incentive being requested.
- 4) Use Excel format from website, if possible and submit electronically. Use PDF format if filling out manually and mailing (See page 1 for mailing information).

### PRE-APPROVAL APPLICATION CHECKLIST

**Required Attachments for All Projects**

- [Customer/Contractor Information](#)
- Application Checklist
- Copy of PPL Electric Utilities Bill

**For Custom Projects**

- Commissioning/Measurement Plan
- [Custom Incentive Worksheet](#)

**Incentives Worksheets**

(Check those that apply and complete forms)

- [Retrofit Lighting\\*](#)
- [New Construction Lighting\\*](#)
- [HVAC\\*](#)
- [DHP\\*](#)
- [Insulation](#)
- [Refrigeration](#)
- [Appliances](#)
- [VSD and Motors\\*](#)
- [Custom/Technical Study](#)

Pre-Approval Application Date: \_\_\_\_\_

Estimated Project Cost: \_\_\_\_\_

Expected Completion Date: \_\_\_\_\_

*\*These worksheets have additional required documentation that show kWh savings. See worksheets for details.*

### FINAL APPLICATION CHECKLIST

**Required Attachments for All Projects**

- [Customer/Contractor Information](#)
- [Final Application Agreement Form/Third-Party Payment Release Authorization](#)
- Itemized Invoices
- Manufacturer's Specifications (requested)
- Application Checklist

**For Custom Projects**

- Commissioning/Measurement Report
- [Custom Incentive Worksheet](#)
- TRM Worksheets

**Incentives Worksheets**

(Check those that apply and complete forms)

- [Retrofit Lighting\\*](#)
- [New Construction Lighting\\*](#)
- [HVAC\\*](#)
- [DHP\\*](#)
- [Insulation](#)
- [Refrigeration](#)
- [Appliances](#)
- [VSD and Motors\\*](#)
- [Custom/Technical Study](#)

Final Application Date: \_\_\_\_\_

Final Project Cost: \_\_\_\_\_

Final Completion Date: \_\_\_\_\_

*\*These worksheets have additional required documentation that show kWh savings. See worksheets for details.*

*Incomplete applications will delay processing and incentive payment.*

**Please complete below if this is a revised submittal.**

REVISED PRE-APPROVAL APPLICATION DATE: \_\_\_\_\_

REVISED FINAL APPLICATION DATE: \_\_\_\_\_

APPLICATION NUMBER (IF KNOWN): \_\_\_\_\_

# APPLICATION

## CUSTOMER/CONTRACTOR INFORMATION

### PPL Electric Utilities E-power Incentives

**Important:** Please read the Terms and Conditions before signing and submitting this application.  
You must complete all information and provide required additional documentation to avoid processing delays.

#### CUSTOMER INFORMATION

**Project Type:**  New Construction/Whole Building Renovation       Retrofit/Equipment Replacement

**Building Information:** Total Sq. Ft.: \_\_\_\_\_ Space Heating Type: \_\_\_\_\_  
Building Age: \_\_\_\_\_ (elec or non-elec)

**Building Type (select one):**

EDUCATION - PRIMARY SCHOOL <input type="checkbox"/>	LODGING HOTEL (GUEST ROOM) <input type="checkbox"/>	RETAIL - 3 STORY LARGE <input type="checkbox"/>
EDUCATION - SECONDARY SCHOOL <input type="checkbox"/>	LODGING MOTEL <input type="checkbox"/>	RETAIL - SINGLE-STORY LARGE <input type="checkbox"/>
EDUCATION - COMMUNITY COLLEGE <input type="checkbox"/>	MANUFACTURING - LIGHT <input type="checkbox"/>	RETAIL - SMALL <input type="checkbox"/>
EDUCATION - UNIVERSITY <input type="checkbox"/>	MULTI-FAMILY - COMMON AREAS <input type="checkbox"/>	STORAGE CONDITIONED <input type="checkbox"/>
LARGE RETAIL/SERVICE <input type="checkbox"/>	OFFICE - LARGE <input type="checkbox"/>	STORAGE UNCONDITIONED <input type="checkbox"/>
GROCERY <input type="checkbox"/>	OFFICE - SMALL <input type="checkbox"/>	WAREHOUSE <input type="checkbox"/>
MEDICAL - HOSPITAL <input type="checkbox"/>	RESTAURANT - SIT DOWN <input type="checkbox"/>	OTHER <input type="checkbox"/> _____
MEDICAL - CLINIC <input type="checkbox"/>	RESTAURANT - FAST-FOOD <input type="checkbox"/>	(specify)

**Business Type (select one):**

Government (Federal/State/Local) <input type="checkbox"/>	Non-Profit Entity <input type="checkbox"/>
Education <input type="checkbox"/>	None of the Above <input type="checkbox"/>

**Tax Status:**

Sole-Proprietor <input type="checkbox"/>	Non-Profit Corporation <input type="checkbox"/>	Government Religious <input type="checkbox"/>
Partnership <input type="checkbox"/>		

START DATE	COMPLETION DATE	ESTIMATED TOTAL COST
NAME OF APPLICANT'S BUSINESS		PROJECT NAME (IF APPLICABLE)
NAME AS IT APPEARS ON PPL ELECTRIC UTILITIES BILL	PPL ELECTRIC UTILITIES ACCOUNT #	APPLICANT TAXPAYER ID # (SSN/FEDERAL ID)
MAILING ADDRESS	CITY	STATE      ZIP
INSTALLATION ADDRESS	CITY	STATE      ZIP

Please indicate the dollar amount of other (non-PPL) rebates you may also be receiving for this purchase. This information does not change the amount of your E-power rebate.      \$ \_\_\_\_\_

#### CUSTOMER CONTACT

NAME OF CONTACT PERSON - Preferred Contact for Documentation		TITLE OF CONTACT	
CONTACT PHONE #	EXT	CONTACT FAX #	CONTACT EMAIL ADDRESS

#### CONTRACTOR INFORMATION

NAME OF CONTRACTING COMPANY			
NAME OF CONTACT PERSON		TITLE OF CONTACT PERSON	
CONTACT PHONE #	EXT	CONTACT FAX #	CONTACT EMAIL ADDRESS: (Used to send status updates regarding this application and additional information about other PPL Programs.)
MAILING ADDRESS	CITY	STATE	ZIP
CONTRACTOR SIGNATURE		DATE	

How did you hear about E-power rebates?

PPL Bill Insert <input type="checkbox"/>	Store <input type="checkbox"/>	Word of Mouth <input type="checkbox"/>
Newspaper <input type="checkbox"/>	PPL Employee <input type="checkbox"/>	Trade Ally <input type="checkbox"/>
Online <input type="checkbox"/>	Event <input type="checkbox"/>	Other <input type="checkbox"/> _____
Radio <input type="checkbox"/>	Magazine <input type="checkbox"/>	
Television <input type="checkbox"/>	Mail <input type="checkbox"/>	

I understand PPL Electric Utilities reserves the right to audit my rebate application and if requested, I will allow PPL Electric Utilities' representatives reasonable access to verify the installation of qualifying product(s) and potentially the removal of older products. I understand PPL Electric Utilities may provide my name and address to PPL Electric Utilities representatives to verify this information and I approve sending the rebate to the address I have provided above.

CUSTOMER SIGNATURE (PPL CUSTOMER)	DATE
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# TERMS AND CONDITIONS

## PPL Electric Utilities E-power Incentives

PPL Electric Utilities Corporation ("PPL") is offering financial incentives under the PPL E-power Program to facilitate the implementation of cost-effective energy-efficient measures for commercial, industrial, governmental, institutional, and non-profit customers.

Completed applications will be reviewed in the order received. Applicants who submit incomplete applications will be notified of deficiencies upon review of the application, which will be held separately until all requested information is received. Applicants are encouraged to call 1-866-432-5501 if they have any questions about documentation requirements. Funds are limited and subject to availability. The Program and/or its individual components may be extended, modified (including changing incentive levels) or terminated without prior notice.

### Program Effective Dates

The current Program cycle runs from July 1, 2009 through May 31, 2013. The PPL E-power Program and incentives are offered under Act 129 and are subject to change. See the E-power website at [www.pplelectric.com/e-power](http://www.pplelectric.com/e-power) for Program information.

### Program and Project Eligibility

The PPL E-power incentives are available for the energy-efficient measures listed in the worksheets attached to the application. All customers who receive their electricity via the PPL distribution network are eligible to apply for these incentives, regardless of the retail electric supplier from which the customer has chosen to purchase electricity. Both small and large multi-family projects also are eligible for incentives under this Program and must provide their master meter account information.

Many projects involving energy savings may be eligible. Incentives are available for both Prescriptive and Custom Measures.

Prescriptive Measures are energy-efficiency measures with pre-determined savings and incentive levels. These measures are listed in the Lighting, HVAC, Refrigeration, and Motors and Drives worksheets of the application.

Custom Measures are those energy-efficiency measures not covered by any other E-power Program, rebate, or incentive. Accordingly, projects to implement Custom Measures are considered Custom Incentive Projects. Those Projects must be approved by PPL in advance. Incentives are determined on a case-by-case basis, and are paid per unit of energy (kWh) saved (up to \$500,000 per site or \$2 million per parent company). Custom projects may not result in an increase in summer peak demand usage. Custom Incentive Projects must be cost-effective according to PPL calculations. Projects not eligible to be treated as Custom Incentive Projects include those that:

- Receive a rebate/incentive through any other energy efficiency program offered by PPL.
- Produce an electric energy reduction through substitution of another energy source for electricity.
- Merely terminate existing processes, facilities, or operations; or simple control adjustments that do not involve external costs.
- Relocate existing processes, facilities, or operations out of PPL service territory.
- Are required by local, state or federal law; building or other codes; or are standard industry practices.

Installation for all Customer Measures must be at the customer's facility and provide 100% of the energy benefits as stated in the application for a period of five years or for the life of the product, whichever is less.

### Custom Incentive Project Payment Limits

Custom Incentives are capped at \$500,000 per customer site per year, or \$2 million per parent company per year for customers with multiple sites. Technical Study Reimbursements are capped at \$50,000 or 100% of the eligible study cost, whichever is less. Technical Study Reimbursement calculations are specific to the type of study and can be found on Page 20. Custom Incentive Project payments cannot exceed 50% of the customer's total external, out-of-pocket costs for the project. Customer internal labor costs cannot be included in calculating implementation costs as they are 'sunk' cost and not incremental costs associated with the custom incentive project.

# TERMS AND CONDITIONS (cont'd)

## **Application Review Process**

Pre-approval applications are highly recommended for all projects and are required for Retrofit Lighting Projects, Custom Incentive Projects and Technical Study Reimbursement Applications. Following review of the pre-approval application, which must include all relevant documentation, PPL will respond with a funds reservation letter if the project is eligible. The funds reservation letter is not a guarantee of an exact dollar amount, but serves as approval for project acceptance.

Invoices for all associated work must be provided. The project invoice must provide sufficient detail to separate the project cost from the cost of other services such as repairs and building code compliance. PPL reserves the right to request additional supporting documentation necessary to ensure measure eligibility and verify that the expected energy savings will occur. Requested information may include, but is not limited to: equipment purchase dates, installation dates, proof that the equipment is operational, manufacturer specifications, warranty information, and proof of customer co-payment. PPL will make every effort to maintain the confidentiality of customer information except when such information must be provided to the Pennsylvania Public Utility Commission (PUC) and its contractors, as well as contractors engaged by PPL to perform measurement and evaluation.

## **Inspections and/or PUC's Statewide Program Evaluation**

PPL, its agents, Program Evaluation Contractor, and/or the PUC statewide program evaluator have the right to audit or inspect all projects to verify the accuracy of project documentation as well as compliance with these terms and conditions and the Program rules. This may include pre-installation and/or post-installation inspections, detailed lighting layout descriptions, metering, data collection, interviews, and utility bill data analyses. By submitting a completed application, the customer agrees to allow access by the entities listed above to project documents and the facility where the measures were installed for a period of five years after receipt of incentive payment from PPL.

## **Tax Liability**

Incentives may be taxable for most taxpayers. If the incentive is more than \$600, it will be reported to the IRS and the customer will be provided with an IRS form 1099, unless the customer is exempt. PPL is not responsible for any tax liability that may be imposed on any customer as a result of the payment of Program incentives. All customers must supply their Federal Taxpayer ID Number to PPL in order to receive a Program incentive. Please consult with your tax professional for information on the tax treatment of the incentives.

## **Warranties/ No Endorsement and Limitation of Liability**

PPL does not endorse, support or recommend any particular manufacturer, contractor, supplier, product, measure, or system design in connection with this Program. PPL does not guarantee the specific level of energy savings with respect to any product, system design or energy efficiency measure.

PPL makes no representations and provides no warranty or guarantee with respect to: (a) design, manufacture, construction, safety performance, or effectiveness of newly installed equipment or (b) the work performed by any contractor with respect to the design, manufacture, or installation of any measures in connection with this Program, including any warranties of merchantability or fitness for a particular purpose. By virtue of participating in this Program, the customer agrees to waive any and all claims or damages against PPL except the receipt of any applicable Program incentives. Customer agrees that, except with respect to any applicable Third Party Payment Release Authorization, PPL shall have no obligations to any third party arising under or related to the Program.

The customer and its contractor(s) shall be solely responsible for (i) the construction, installation, maintenance, and/or operation of the measures, and (ii) any liability or claims arising under or related thereto. The Customer and its contractor(s), and not PPL, are responsible for (a) the installation of the measure in accordance with any and all laws, standards and codes, and (b) disposing of any equipment and materials according to local and state code requirements.

# FINAL APPLICATION AGREEMENT

## PPL Electric Utilities E-power Incentives

In exchange for the receipt of any incentive payments from PPL Electric Utilities Corporation ("PPL") for which I may be eligible, the applicant:

Certifies that work was completed on this project on or after July 1, 2009. Project documentation, including product specification sheets, and copies of dated invoices for the purchase and installation of the measures, are attached.

Understands that the location or business name on the invoice must be consistent with the application information. The applicant agrees to verification, by PPL Corporation or its representatives, of both sales transactions and equipment installation. The applicant understands that in no case will PPL pay more than 100% of the total costs of the project.

Has attached any other documentation requested of it by the program team. The applicant understands that PPL or its representatives shall have the right to ask for additional information at any time, and that PPL will make the final determination of incentive levels for all projects.

Certifies that the information on this application is true and correct and that the Taxpayer ID Number and tax status is the applicant's. The applicant understands that incentives over \$600 will be reported to the IRS unless the applicant submits appropriate exemption documentation.

Understands that this project must involve a facility improvement that results in improved energy-efficiency and/or a permanent reduction in energy usage. The applicant understands that in the event the application was pre-approved and funds were reserved based upon the application, such pre-approval or reservation, including the specific dollar amount of reservation, did not represent a guarantee that such funds will be paid. Payment of incentives is based upon the final application and program terms and conditions, as well as the availability of funds.

Understands that all materials removed, including lamps and PCB ballasts, must be permanently taken out of service and disposed of in accordance with all laws, including local codes and ordinances. The applicant understands it is the applicant's responsibility to be aware of any applicable codes or ordinances and that information about hazardous waste disposal can be found at: [www.epa.gov/epawaste/hazard/index.htm](http://www.epa.gov/epawaste/hazard/index.htm).

Understands that it may be recognized as a program participant in promotional materials; however, project details will not be released to the public without prior consent. If the applicant chooses to opt-out of any recognition, it will indicate its choice in a letter addressed to: E-power Solutions/KEMA, c/o PPL Electric Utilities, 2 North Ninth Street (GENGA2), Allentown, PA 18101, or via email to [EpowerSolutions@kema.com](mailto:EpowerSolutions@kema.com).

Understands that PPL does not guarantee the energy savings and does not make any warranties associated with the measures eligible for incentives under E-power programs and further, that PPL has no obligations regarding and does not endorse or guarantee any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors that sell or install any energy efficiency measures.

Understands that programs, eligibility requirements and incentives are subject to change. Program information is listed on the E-power website at [www.pplelectric.com/e-power](http://www.pplelectric.com/e-power).

Understands and agrees to be bound to the terms and conditions herein when submitting any rebate or incentive application to PPL and its affiliates or subsidiaries, and further understands that these terms and conditions may be changed at any time without prior notice and shall be governed by the laws of the Commonwealth of Pennsylvania. The applicant understands that either it or PPL may bring any legal action or proceeding arising out of or relating to this application only in federal courts in Eastern Pennsylvania or in the state courts in Lehigh County, Pennsylvania. The applicant consents to the exclusive jurisdiction of such courts for the purpose of all legal actions and proceeding. The applicant waives, to the fullest extent permitted by law, any objection that it may now or later have to the laying of venue as provided in this section and any claim that any action or proceeding brought in any such court has been brought in an inconvenient form. The applicant knowingly, voluntarily, and intentionally waives its right to trial by jury in any action or other legal proceeding arising out of or relation to this application. This waiver applies to any action or legal proceeding, whether in agreement, tort, or otherwise.

Has read, understood and is in compliance with all rules and regulations concerning PPL E-power programs. The applicant certifies that all information provided is correct to the best of its knowledge, and gives PPL permission to share the applicant's records with the PUC, and agents, representatives and contractors it selects to manage, coordinate or evaluate the program. Additionally, the applicant hereby authorizes PPL to have reasonable access to its property to inspect the installation and performance of the equipment and installations that are eligible for incentives under the guidelines of the program.

**Signature required on page with Final Agreement**

# FINAL APPLICATION AGREEMENT

## PPL Electric Utilities E-power Incentives

### INCENTIVES REQUESTED AGREEMENT

I have read and understand the program requirements, measure specifications, and E-power Incentives Terms and Conditions set forth in this application and agree to abide by those requirements. Furthermore, I concur that I must meet all eligibility criteria in order to be paid under this program.

**FOR FINAL APPLICATIONS, SIGN AND SUBMIT ONLY AFTER ALL EQUIPMENT HAS BEEN INSTALLED AND OPERATIONAL. A CUSTOMER SIGNATURE IS REQUIRED FOR PAYMENT. SIGNED APPLICATIONS RECEIVED BY FAX OR EMAIL WILL BE TREATED THE SAME AS ORIGINAL APPLICATIONS RECEIVED BY MAIL.**

TOTAL PROJECT COST		**TOTAL INCENTIVES REQUESTED	
CUSTOMER SIGNATURE (PPL Electric Utilities CUSTOMER)		YOUR PPL ELECTRIC UTILITIES 10-Digit Account #:	
PRINT NAME	DATE	ACTUAL COMPLETION DATE	

### THIRD-PARTY PAYMENT RELEASE AUTHORIZATION (OPTIONAL)

**Complete this section ONLY if incentive payment is to be paid to an entity other than the PPL customer listed on the Applicant Information page.**

I AM AUTHORIZING THIS REBATE PAYMENT TO THE THIRD PARTY NAMED BELOW AND I UNDERSTAND THAT I WILL NOT BE RECEIVING THE REBATE PAYMENT CHECK FROM PPL ELECTRIC UTILITIES. I ALSO UNDERSTAND THAT MY RELEASE OF PAYMENT TO THE THIRD PARTY DOES NOT EXEMPT ME FROM THE REBATE REQUIREMENTS OUTLINED IN THE APPLICATION.

**Authorized by:**

CUSTOMER SIGNATURE (PPL CUSTOMER)		PRINT NAME	DATE
<b>Check should be made payable to:</b>			
PAYEE: COMPANY		ATTENTION TO:	
MAILING ADDRESS 1			
CITY		STATE	ZIP
EMAIL: <i>(Used to send status updates regarding this application and additional information about other PPL Programs.)</i>			
CONTACT PHONE NUMBER			
TAXPAYER ID # (SSN/FEIN OF PAYEE)		TAX STATUS Corporation (Inc., PC, Etc.), Tax Exempt, Individual, Other (May receive 1099)	

**\*\*Rebate amount will pay the lesser of 1) The calculated incentive as approved and 2) 50% of the total cost of the project for custom measures.**

# RETROFIT LIGHTING REBATE WORKSHEET

**Note:** A PA Lighting Form is required for all Retrofit Lighting projects. The form may be found at [pplelectric.com/e-power/resources](http://pplelectric.com/e-power/resources). Call 1-866-432-5501 for assistance. Additionally, a manufacturer's specification sheet for new fixtures, lamps, and/or ballasts is requested.

Measure Description & Eligibility Criteria	Eligible Installation	Quantity	Rebate/Unit	Total Rebate
<b>T12 to High Performance/Reduced Wattage T8 Fixtures</b>				
The installed lamps and ballasts must qualify for the Consortium for Energy Efficiency (CEE) high performance/reduced wattage T8 specification <a href="http://www.cee1.org/com/com-lt/com-lt-specs.pdf">http://www.cee1.org/com/com-lt/com-lt-specs.pdf</a> . A list of qualified lamps and ballasts can be found at: <a href="http://www.cee1.org">http://www.cee1.org</a> .	Retrofit Fixture with New High Performance/Reduced Wattage T8 Lamps <b>AND Ballast</b>		<b>\$6.00</b> per lamp installed	
<b>32 Watt T8 Lamps to High Performance/Reduced Wattage T8 Lamps</b>				
The installed lamps must qualify for the Consortium for Energy Efficiency (CEE) high performance/reduced wattage T8 specification <a href="http://www.cee1.org/com/com-lt/com-lt-specs.pdf">http://www.cee1.org/com/com-lt/com-lt-specs.pdf</a> . A list of qualified lamps can be found at: <a href="http://www.cee1.org">http://www.cee1.org</a> .	Retrofit T8 Fixture with New High Performance/Reduced Wattage T8 Lamps		<b>\$1.00</b> per lamp installed	
<b>High Bay T5HO Fixtures</b>				
New fixture wattage must be >100 watts.	New T5HO Fluorescent Fixture (>100W)		<b>\$16.00</b> per lamp with installation of new fixture	
<b>High Bay T8 Fixtures</b>				
New fixture wattage must be >100 watts.	New T8 Fluorescent Fixture (>100W)		<b>\$12.00</b> per lamp with installation of new fixture	
<b>T5 and T8 Fixtures</b>				
Replace or retrofit existing fixture with same number of new T8 or T5 lamps and new ballasts.	New T8 or T5 Lamps & Ballasts		<b>\$4.00</b> per lamp installed	
<b>Delamp and Install Reflectors</b>				
Replace or retrofit the existing fluorescent fixture with new T8 or T5 lamps, electronic ballast and reflector. This measure can be a retrofit kit or new fixture. Installed fixture must have fewer lamps or a net (in the case of 8 foot lamps) reduction in linear lamp length. Common examples: 2 Lamp U T12 to 2 Lamp 2' T8 w/ reflector = \$20 per fixture 4 Lamp 4' T12 to 3 Lamp 4' T8 w/ reflector = \$30 per fixture 4 Lamp 4' T12 to 2 Lamp 4' T8 w/ reflector = \$40 per fixture 2 Lamp 8' T12 to 2 Lamp 4' T8 w/ reflector = \$30 per fixture 2 Lamp 8' T12 to 3 Lamp 4' T8 w/ reflector = \$30 per fixture 4 Lamp 8' T12 to 4 Lamp 4' T8 w/ reflector = \$60 per fixture	Replace existing fixture with T8 or T5 fixture with one or more lamps removed from the original number of lamps. Retrofitted fixture must include an electronic ballast and reflector. Removing lamps from a fixture that is not being retrofitted with higher performance lamps is not eligible.	2' or 3' lamp, 1 or more lamps removed	<b>\$10</b> per 2' or 3' lamp installed (max 2 lamps)	
		4' lamp, 1-4' lamp removed	<b>\$10</b> per 4' lamp installed	
		4' lamp, 2-4' lamps removed	<b>\$20</b> per 4' of lamp installed	
		2 lamp 8' fixture to (2) 4' lamps installed	<b>\$30</b> per fixture	
		2 lamp 8' fixture to (3) 4' lamps installed	<b>\$30</b> per fixture	
<b>High Pressure Sodium Lighting (HPS)</b>				
HPS lamp wattage must be > 65 watts and < 300 watts. The retrofit must replace a Mercury Vapor Lamp.	New High Pressure Sodium Fixture		<b>\$40.00</b> per fixture	
<b>Pulse Start or Ceramic Metal Halide</b>				
The qualified fixture may be new pulse start metal halide fixtures or retrofit kits that replace probe start fixtures. The retrofit kit must include lamp and ballast with fixture. Ballasts may be either electronic or magnetic.	Retrofit to Pulse Start or Ceramic Metal Halide, ≤ 320 watts		<b>\$25.00</b> per fixture	
<b>Pulse Start or Ceramic Metal Halide</b>				
The qualified fixture may be new pulse start metal halide fixtures or retrofit kits that replace probe start fixtures. The retrofit kit must include lamp and ballast with fixture. Ballasts may be either electronic or magnetic.	Retrofit to Pulse Start or Ceramic Metal Halide, > 320 watts		<b>\$50.00</b> per fixture	



# RETROFIT LIGHTING REBATE WORKSHEET

**Note:** A PA Lighting Form is required for all Retrofit Lighting projects. The form may be found at [ppllectric.com/e-power/resources](http://ppllectric.com/e-power/resources). Call 1-866-432-5501 for assistance. Additionally, a manufacturer's specification sheet for new fixtures, lamps, and/or ballasts is requested.

Measure Description & Eligibility Criteria	Eligible Installation	Quantity	Rebate/Unit	Total Rebate
<b>LED Exit Lighting</b>				
LED exit signs must replace either incandescent or compact fluorescent lamps (CFL) exit signs. The installed signs must meet UL-924 requirements (listed on product's packaging) and local fire codes or ETL listed. Retrofit kits, that are used to replace the lamps within the casing are not eligible – the entire fixture must be replaced. The exit sign must have a minimum lifetime of 5 years.	Retrofit to LED Exit Sign with input wattage ≤ 5 watts per face		<b>\$15.00</b> per sign	
<b>Light Emitting Diode (LED) Fixtures ≤ 15 W</b>				
New LED Energy Star qualified fixtures or retrofit kits must replace incandescent or halogen fixtures. LED lamps do not qualify. Residential use only.	Must be ENERGY STAR® qualified and ≤15 watts		<b>\$15.00</b> per fixture or retrofit kit	
<b>Cold Cathode Lamps</b>				
Cold cathode lamps may be medium (Edison) or candelabra base. Product must be rated for at least 18,000 average life hours.	Must be ≥ 2 and ≤ 8 watts		<b>\$3.00</b> per lamp	
<b>Non-Residential CFL Pin-Base Fixture</b>				
Must be a new ENERGY STAR® CFL Pin-Based Fixture  Number of lamps per fixture = _____ lamps _____ watts/lamp	New ENERGY STAR® CFL Pin-Based Fixture		<b>\$30.00</b> per fixture	
<b>Residential CFL Pin-Base Fixture</b>				
Must be a new ENERGY STAR® CFL Pin-Based Fixture  Number of lamps per fixture = _____ lamps _____ watts/lamp	New ENERGY STAR® CFL Pin-Based Fixture		<b>\$5.00</b> per fixture	
<b>CFL Non-Residential Screw-In Bulbs</b>				
The installed bulbs must be new ENERGY STAR® CFL. CFLs cannot be stored or inventoried. Lamps must be installed (not stock) to qualify.  The rebate only applies to CFLs that are not currently being discounted through PPL EU Residential Retail CFL Program. This measure does not apply to new construction applications.	Replacing existing incandescent lamps with ENERGY STAR® CFLs	<b>CFL Qty</b>	<b>50%</b> of the cost per bulb up to <b>\$1.50</b> per CFL (not including taxes, shipping, and handling)	
		<b>Avg Cost per CFL</b>		

# RETROFIT LIGHTING REBATE WORKSHEET

**Note:** A PA Lighting Form is required for all Retrofit Lighting projects. The form may be found at [ppllectric.com/e-power/resources](http://ppllectric.com/e-power/resources). Call 1-866-432-5501 for assistance. Additionally, a manufacturer's specification sheet for new fixtures, lamps, and/or ballasts is requested.

Measure Description & Eligibility Criteria	Eligible Installation	Quantity	Rebate/Unit	Total Rebate
<b>Occupancy Sensor</b>				
Eligible occupancy sensors are passive infrared and/or ultrasonic wall, ceiling or fixture mounted. Installations must comply with manufacturer's guidelines on coverage and maximum controlled watts. This measure may NOT be combined with daylighting controls.	Occupancy Sensor	<b>Occ Sensor Qty</b>	Up to <b>\$45</b> per sensor, not to exceed cost	
		<b>Avg Cost per Sensor</b>		
<b>Occupancy Sensor (coupled with Daylighting Controls)</b>				
Eligible occupancy sensors are passive infrared and/or ultrasonic wall, ceiling or fixture mounted. Installations must comply with manufacturer's guidelines on coverage and maximum controlled watts.	Occupancy sensor combined with daylighting controls. Up to \$25 per sensor plus \$35 for daylighting controlled fixture, not to exceed cost	<b>Occ Sensor Qty</b>	Up to <b>\$25</b> per sensor, plus <b>\$35</b> for daylighting controlled fixture, not to exceed cost	
		<b>Avg Cost per Sensor</b>		
<b>Daylighting Controls</b>				
The controls can be on/off, stepped, or continuous (dimming). The on/off controller should turn off artificial lighting when the interior luminance meets the desired indoor lighting level. Daylight sensor controls must be new and are required to be commissioned in order to ensure proper sensor calibration and energy savings. They are typically installed in spaces with reasonable amounts of sunlight exposure and areas where task lighting is not critical.	Installation of daylighting controls and sensors.	<b># of Controlled</b>	<b>\$35</b> per controlled fixture	
		<b>Watts Controlled</b>		
<b>LED Traffic Signals</b>				
LED Traffic Signal 8" Red and Green	Lamps shall have a maximum LED module wattage of 17. Rebates are on a per-lamp (not for spare lamps) basis (including arrows) that retrofit an existing incandescent traffic signal. Lights must be hard-wired, with the exception of pedestrian hand signals.		<b>\$25.00</b>	
LED Traffic Signal 12" Red and Green			<b>\$30.00</b>	
LED Traffic Signal 8" or 12" Pedestrian			<b>\$30.00</b>	
LED Traffic Signal 8" Green Arrow			<b>\$25.00</b>	
LED Traffic Signal 12" Green Arrow			<b>\$30.00</b>	
<b>Total Lighting Rebate:</b>				

# NEW CONSTRUCTION LIGHTING REBATE WORKSHEET

## Lighting Power Density Method

Under the Lighting Power Density Approach, the lighting power installed is compared with the lighting power allowed by code. Rebates are available for systems where the installed lighting power density is lower than the code level by at least 5%. Savings are based on the Lighting power Density (LPD) calculated on a watts per square foot basis. Baseline lighting power density is based on **ASHRAE 90.1-2007**. Either the "Space-by-Space or "Building Area" method may be used to calculate the LPD for the purpose of the incentive.

The rebate for the lighting performance based approach is \$0.35 per watt reduction in connected load below the ASHRAE 90.1-2007 standard. **The minimum lighting power density used to calculate the rebate shall be no less than 5% below the ASHRAE 90.1-2007 value.**

**Required Documentation:**

- 1) PPL Electric Utilities E-power New Construction Lighting Rebate Worksheet (please contact us at 1-866-432-5501 for the most current version), or COMcheck Interior Lighting Report or equivalent analysis demonstrating space-by-space or building area calculations.
- 2) Final electrical plan sheets showing lighting fixture layout, or lighting fixture schedule sheet including fixture counts.

**Requested Documentation:**

- 1) Manufacturer's specification sheets showing model number and rated fixture wattage.

This LPD table only includes incentives for lighting system efficiency and does not include the capability to enter time, occupancy, daylighting or other controls that may be part of a lighting renovation project. This is because many controls are required by code for new construction and are therefore not eligible for incentives. Lighting controls that are not required by code may be applied for as a "Custom" project by completing the PA Lighting Form (PA TRM Appendix C) for the fixtures that include the qualifying controls, and applying for a "custom" project.

### Summary Illustration (Optional)

Building Type	Occupied Area (Sq Ft)	Total Allowed Watts (Watts)	Total Proposed Watts (Watts)	Rebate per W reduced	Total Rebate
<i>Example: Sally's Retail Sales</i>	<i>100,000</i>	<i>150,000</i>	<i>113,533</i>	<i>\$0.35</i>	<i>\$12,763.45</i>
1				\$0.35	
2				\$0.35	
3				\$0.35	
4				\$0.35	
5				\$0.35	
6				\$0.35	
7				\$0.35	
8				\$0.35	
<b>Total New Construction Lighting Rebate:</b>					

# HVAC REBATE WORKSHEET

**Note:** Required documentation in addition to this worksheet includes:

1) An AHRI Certificate indicating the system efficiency (EER, SEER, HSPF, COP, kW/ton-IPLV, COP-IPLV, etc.)

2) HVAC savings calculation worksheet found at: [pplelectric.com/e-power/resources](http://pplelectric.com/e-power/resources)

A Manufacturer's specification sheet is requested.

Equipment Type/Eligible Installation		Size Category	Qualifying Efficiency	Rebate/ Unit	Units	
<b>Air Conditioning Systems and Air Source Heat Pumps</b>						
<p>New unitary air conditioning units or air source heat pumps that meet or exceed the qualifying cooling efficiency shown. They can be either split systems or single package units. Water-cooled systems, evaporative coolers, and water source heat pumps do not qualify under this program, but may qualify for custom.</p> <p>The efficiency of split systems is based on an AHRI reference number. All packaged and split system cooling equipment must meet Air Conditioning, Heating, and Refrigeration Institute (AHRI) standards (210/240, 320 or 340/360), be UL listed, use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC).</p> <p>For A/C units &lt;65,000 Btu/h, use SEER instead of EER to calculate the change in kWh and convert EER to calculate the change in kWpeak using 11.3/13 as the conversion factor.</p>	Central AC < 65,000 Btu/h (< 5.4 tons)	16 SEER	\$100.00	Piece of Equipment		
	Air-Source Heat Pump, < 65,000 Btu/h (< 5.4 tons)	15 SEER	\$100.00			
		16 SEER	\$200.00			
	DX Packaged A/C System, > 65,000 Btu/h and < 240,000 Btu/h (≥ 5.4 tons and < 20 tons)	11.5 EER	\$55.00	Tons		
		12.0 EER	\$80.00			
		12.5 EER	\$105.00			
		10.5 EER/9.8 IPLV	\$60.00			
	DX Packaged A/C System ≥ 240,000 Btu/h (≥ 20 tons)	10.5 EER/9.8 IPLV	\$60.00	Tons		
	Air-Source Heat Pump, ≥ 65,000 Btu/h and < 135,000 Btu/h	11.5 EER, 3.3 COP	\$25.00			
	Air-Source Heat Pump, ≥ 135,000 Btu/h and < 240,000 Btu/h	11.1 EER, 3.2 COP	\$20.00			
Air-Source Heat Pump, ≥ 240,000 Btu/h	10.0 EER/ 9.7 IPLV, 3.2 COP	\$15.00				
<b>Room Air Conditioners</b>						
Must be ENERGY STAR® rated.		ALL	ENERGY STAR® rated	\$25.00	Piece of Equipment	
<b>Water Cooled and Air-Cooled High Efficiency Chiller</b>						
The chiller must meet both the full load and IPLV performance values for the selected Path as tested according to AHRI 550/590-2003. The chillers must be UL listed and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). The AHRI net capacity value should be used to determine the chiller tons. Efficiency rating requirement for water-cooled chillers is based on unit size. Refer to the Pennsylvania Technical Reference Manual for more details. Prescriptive incentive for chillers are for unitary electric chillers serving a single load at the system level or sub-system level. All other chiller applications fall into the Custom incentive program.						
Chiller Type	Size	Path A PPL Efficiency Requirements	Path B PPL Efficiency Requirements	Rebate/ Unit		
Air Cooled Chillers	< 150 tons	Full load: 9.56 EER	N/A	\$7.00/ton		
		IPLV: 13.125 EER				
	≥ 150 tons	Full load: 9.56 EER	N/A			
		IPLV: 13.38 EER				
Water Cooled Positive Displacement or Reciprocating Chiller	< 75 tons	Full load: 0.78 kW/ton	Full load: 0.800 kW/ton	\$10.00/ton		
		IPLV: 0.599 kW/ton	IPLV: 0.570 kW/ton			
	≥ 75 tons and < 150 tons	Full load: 0.775 kW/ton	Full load: 0.790 kW/ton			
		IPLV: 0.584 kW/ton	IPLV: 0.557 kW/ton			
	≥ 150 tons and < 300 tons	Full load: 0.680 kW/ton	Full load: 0.718 kW/ton			
		IPLV: 0.551 kW/ton	IPLV: 0.513 kW/ton			
	≥ 300 tons	Full load: 0.620 kW/ton	Full load: 0.639 kW/ton			
		IPLV: 0.513 kW/ton	IPLV: 0.466 kW/ton			
Water Cooled Centrifugal Chiller	< 300 tons	Full load: 0.634 kW/ton	Full load: 0.639 kW/ton	\$10.00/ton		
		IPLV: 0.566 kW/ton	IPLV: 0.428 kW/ton			
	≥ 300 tons and < 600 tons	Full load: 0.576 kW/ton	Full load: 0.600 kW/ton			
		IPLV: 0.522 kW/ton	IPLV: 0.38 kW/ton			
	≥ 600 tons	Full load: 0.570 kW/ton	Full load: 0.590 kW/ton			
		IPLV: 0.512 kW/ton	IPLV: 0.38 kW/ton			
Equipment Type and Make	Model #	Size (tons)	Quantity	Spec Included (Y/N)	AHRI Cert Included (Y/N)	Rebate

## HVAC REBATE WORKSHEET (cont'd)

PTAC/PTHP								
Package terminal air conditioners and heat pumps are through-the-wall self contained units that are 2 tons (24,000 Btu/h) or less. All sizes must be ENERGY STAR® rated. Contact E-power Solutions at 1-866-432-5501 for additional information.								
PTAC (Cooling Only)								
Cooling Capacity	Qualifying EER (Replacement)		Qualifying EER (New Construction)		Rebate per Piece of Equipment			
0 - 7,000 Btu/h (≥ 0 and < 0.583 tons)	9.9		11.5		\$15.00			
7,000 - 10,000 Btu/h (≥ 0.583 and < 0.833 tons)	9.2		10.9		\$20.00			
10,000 - 14,000 Btu/h (≥ 0.833 and < 1.167 tons)	8.3		10.0		\$30.00			
≥ 14,000 Btu/h (≥ 1.167 tons)	8.0		9.6		\$40.00			
PTHP (Cooling and Heating)								
Cooling Capacity	Qualifying EER (Replacement)	Qualifying COP (Replacement)	Qualifying EER (New Construction)	Qualifying COP (New Construction)	Rebate per Piece of Equipment			
0 - 7,000 Btu/h (≥ 0 and < 0.583 tons)	9.7	2.8	11.5	3.2	\$30.00			
7,000 - 10,000 Btu/h (≥ 0.583 and < 0.833 tons)	9.1	2.8	10.9	3.1	\$40.00			
10,000 - 14,000 Btu/h (≥ 0.833 and < 1.167 tons)	8.2	2.7	10.0	3.0	\$60.00			
≥ 14,000 Btu/h (≥ 1.167 tons)	8.4	2.6	9.6	2.9	\$80.00			
PTAC/PTHP Make and Model #	Qty	Cooling Capacity (Btu/h)	Cooling Capacity (tons)	Cooling EER	Heating Capacity (Btu/h)	Heating Capacity (tons)	Heating COP	Rebate
<b>Total HVAC Rebate:</b>								

# DUCTLESS MINI-SPLIT HEAT PUMP REBATE WORKSHEET

**Note:** Required documentation in addition to this worksheet includes:

- 1) An AHRI Certificate indicating the system efficiency (EER, SEER, HSPF, COP, kW/ton-IPLV, COP-IPLV, etc.)
  - 2) DHP savings calculation worksheet found at: [pplelectric.com/e-power/resources](http://pplelectric.com/e-power/resources)
- A Manufacturer's specification sheet is requested.

Is natural gas available at your business?		Does the new unit replace a gas unit?					
Cooling Capacity	Qualifying SEER	Qualifying HSPF		Rebate per Ton (12,000 Btu/h)			
< 64,800 Btu/h (5.4 tons)	15.0	8.6		\$100.00			
	17.0	9.5		\$150.00			
	19.0	10.5		\$200.00			
Outdoor Unit (one application per unit)							
Manufacturer	Model #	AHRI Cert Ref #	Size (Tons)	Rated SEER	Rated HSPF	Rebate	
Indoor Unit(s)							
Space and/or Building Type	Quantity	Rated Cooling Capacity (Btu/h)	Existing Cooling System Type	Rated Heating Capacity (Btu/h)	Existing Heating System Type		

Space and/or Building Type
Arena/Auditorium/Convention Center
College: Classes/Administrative
Convenience Stores
Dining: Bar Lounge/Leisure
Dining: Cafeteria / Fast Food
Dining: Restaurants
Gymnasium/Performing Arts Theatre
Hospitals/Health care
Industrial: 1 Shift/Light Manufacturing
Industrial: 2 Shift
Industrial: 3 Shift
Lodging: Hotels/Motels/Dormitories
Lodging: Residential
Multi-Family (Common Areas)
Museum/Library
Nursing Homes
Office: General/Retail
Office: Medical/Banks
Parking Garages & Lots
Penitentiary
Police/Fire Stations (24 Hr)
Post Office/Town Hall/Court House
Religious Buildings/Church
Retail
Schools/University
Warehouses (Not Refrigerated)
Warehouses (Refrigerated)
Waste Water Treatment Plant

Existing Cooling System Type
Ductless Heat Pump
Air-Source Heat Pump
Central AC
Room/Window AC
PTAC
PTHP
No Cooling
New Construction

Existing Heating System Type
Ductless Heat Pump
Electric Resistance
Air-Source Heat Pump
PTHP
Electric Furnace
Non Electric Heating Fuel
New Construction
No Heat

<b>Total HVAC Rebate:</b>	
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# INSULATION REBATE WORKSHEET

Customer must have an electrically conditioned space to qualify. Buildings cooled by chillers are not eligible. New Construction projects are not eligible.  
 Electric Space Conditioning Type:

Heating/Cooling:

Air Source Heat Pump

Cooling Only:

Air Source Air Conditioner

Wall/Ceiling Insulation	Existing R-Value	New R-Value	Amount (per sq ft)	# of Sq ft Installed	Total Rebate
<b>Ceiling Insulation:</b> Must add a minimum of R-11 and meet or exceed current ASHRAE code requirement (unless physical space restrictions exist). New construction projects do not qualify for incentives.			\$0.30		
Insulation Type: <input type="checkbox"/> Blown-in <input type="checkbox"/> Spray-on <input type="checkbox"/> Other: _____ <input type="checkbox"/> Batt <input type="checkbox"/> Rigid Board					
<b>Wall Insulation:</b> Must add a minimum of R-11 and meet or exceed current ASHRAE code requirement (unless physical space restrictions exist). No incentive for New Construction Projects.			\$0.30		
Insulation Type: <input type="checkbox"/> Blown-in <input type="checkbox"/> Spray-on <input type="checkbox"/> Other: _____ <input type="checkbox"/> Batt <input type="checkbox"/> Rigid Board					
<b>Total Insulation Rebate:</b>					

# REFRIGERATION REBATE WORKSHEET

Measure Name	Eligible Installation	Quantity	Rebate/Unit	Total Rebate	
<b>High-Efficiency Display Cases</b>					
High-efficiency display cases incorporate anti-sweat controls, high performance evaporative fans, defrost control, improved insulation, liquid suction heat exchangers, and efficient light systems.  This is for remote cases only. Deli cases, open-air units, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify.	Must replace an existing, open, multi-deck display case with a new, ENERGY STAR high-efficiency, reach-in unit with standard glass doors with an Electronically Commutated Fan Motor (ECM), T-8 lamps and an electronic ballast or LED lighting.  Case Volume = _____ cu ft		<b>\$40.00</b> Unit		
<b>Floating Head Pressure Control</b>					
This rebate is for installing automatic controls to lower condensing pressure at lower ambient temperatures in multiplex refrigeration systems. Controls installed must vary head pressure to adjust condensing temperatures in relation to outdoor air temperature and to maintain a 20°F variance below design heat pressure during milder weather conditions.	Must have a minimum SCT (Saturated Condensing Temperature) programmed for the floating head pressure control of ≤ 70°F and include balanced-port expansion valves* to replace existing constant pressure or manually controlled system.		<b>\$20.00</b> Ton		
<b>High-Efficiency Evaporator Fans - Walk-in Cooler</b>					
Replacement of an existing standard-efficiency shaded-pole (SP) evaporator fan coil or a Permanent Split Capacitor (PSC) in walk-ins. The replacement unit must be an Electronically Commutated Motor (ECM).	SP to ECM	16W - 36W	<b>\$60.00</b>		
		37W - 48W	<b>\$90.00</b>		
		> 48W	<b>\$120.00</b>		
	PSC to ECM	16W - 36W	<b>\$20.00</b>		
		37W - 48W	<b>\$30.00</b>		
		> 48W	<b>\$40.00</b>		
<b>High-Efficiency Evaporator Fans - Walk-in Freezer</b>					
Replacement of an existing standard-efficiency shaded-pole (SP) evaporator fan coil or a Permanent Split Capacitor (PSC) in walk-ins. The replacement unit must be an Electronically Commutated Motor (ECM).	SP to ECM	16W - 36W	<b>\$60.00</b>		
		37W - 48W	<b>\$90.00</b>		
		> 48W	<b>\$120.00</b>		
	PSC to ECM	16W - 36W	<b>\$20.00</b>		
		37W - 48W	<b>\$30.00</b>		
		> 48W	<b>\$40.00</b>		
<b>High-Efficiency Evaporator Fans - Reach-in Cooler</b>					
Replacement of an existing standard-efficiency shaded-pole (SP) evaporator fan motor in refrigerated cooler display cases. The replacement unit must be an Electronically Commutated Motor (ECM) or Permanent Split Capacitor (PSC). (PSC motors for new walk-in coolers are not eligible.)	SP to ECM	< 16W	<b>\$40.00</b>		
		16W - 36W	<b>\$70.00</b>		
		>36W	<b>\$90.00</b>		
	SP to PSC	< 16W	<b>\$30.00</b>		
		16W - 36W	<b>\$40.00</b>		
		>36W	<b>\$50.00</b>		
	Replacement of an existing Permanent Split Capacitor (PSC) with an Electronically Commutated Motor (ECM).	PSC to ECM	< 16W	<b>\$10.00</b>	
			16W - 36W	<b>\$20.00</b>	
			>36W	<b>\$30.00</b>	
<b>High-Efficiency Evaporator Fans - Reach-in Freezer</b>					
Replacement of an existing standard-efficiency shaded-pole (SP) evaporator fan motor in freezer display cases. The replacement unit must be an Electronically Commutated Motor (ECM) or Permanent Split Capacitor (PSC). (PSC motors for new walk-in freezers are not eligible.)	SP to ECM	< 16W	<b>\$40.00</b>		
		16W - 36W	<b>\$70.00</b>		
		>36W	<b>\$90.00</b>		
	SP to PSC	< 16W	<b>\$30.00</b>		
		16W - 36W	<b>\$40.00</b>		
		>36W	<b>\$50.00</b>		
	Replacement of an existing Permanent Split Capacitor (PSC) with an Electronically Commutated Motor (ECM).	PSC to ECM	< 16W	<b>\$10.00</b>	
			16W - 36W	<b>\$20.00</b>	
			>36W	<b>\$30.00</b>	
<b>Anti-Sweat Heating Controls</b>					
Technologies that can turn off anti-sweat heaters based on sensing condensation on the inner glass pane (if applicable) and frame at low-humidity conditions. Credit is based on the total horizontal linear footage of the case.	Installation of relative humidity sensors for the air outside of the display case and controls that reduce or turn off the glass door (if applicable) and frame anti-sweat heaters at low-humidity conditions.		<b>\$34.00</b> Door		
<b>Compressor VSD Retrofit</b>					
Redundant or back-up units do not qualify. VSDs on new equipment are not eligible. The rebate is per controlled HP.	Installation of variable speed drive (VSD) on commercial and industrial refrigeration compressors.		<b>\$70.00</b> Horsepower		
<b>Total Refrigeration Rebate:</b>					

\* The expansion valve is a device used to meter the flow of liquid refrigerant entering the evaporator at a rate that matches the amount of refrigerant being boiled off in the evaporator.



# APPLIANCES REBATE WORKSHEET

## ENERGY STAR® Qualifying Appliances

Measure	Eligible Installation	Quantity	Rebate/ Unit	Total Rebate
<b>Ice Maker</b>				
	Installation of ice machines that meet the minimum efficiency required for ENERGY STAR® or Consortium for Energy Efficiency (CEE) Tier 2.  Ice Maker Type: Self-Contained: <input type="checkbox"/> Ice-Making Heads: <input type="checkbox"/> Remote Condensing: <input type="checkbox"/>		<b>\$115.00</b> Unit	
<b>ENERGY STAR® Steam Cookers</b>				
	ENERGY STAR®  Must install three or more pans to qualify.	<b># of Pans</b>	<b>\$100.00</b> Pan	
<b>Residential Refrigerator</b>				
	ENERGY STAR®		<b>\$25.00</b> Unit	
<b>Commercial Reach-in Refrigerator</b>				
Installation of replacement units that are ENERGY STAR® listed. Cases with remote refrigeration systems are not eligible. Their size > 30 cubic feet.	ENERGY STAR®  Volume = _____ cu ft		<b>\$70.00</b> Unit	
<b>Total Appliances Rebate:</b>				

# VARIABLE SPEED DRIVES AND MOTORS REBATE WORKSHEET

## Variable Speed Drives Qualifications

Variable Speed Drives (VSDs) which are installed on existing HVAC are eligible for this rebate. The installation of a VSD must accompany the permanent removal or disabling of any throttling devices such as inlet vanes, bypass dampers, and throttling valves. Other requirements include:

- Rated motor horsepower ≤ 200 hp and minimum annual operating hours
- Does not apply to redundant or backup/standby motors that are expected to operate less than 1200 operating hours per year
- Does not apply to variable pitch fans unless applicant supplies proof of kWh savings from logged or measured data
- Does not apply to replacement of a multi-speed motor
- Does not apply to VSDs on new chillers
- Applies only to VSDs installed with an automatic feedback control technology. Does not apply to systems with manual controls or fixed-speed operation unless applicant supplies proof of kWh savings from logged or measured data

VSD Application	Rebate per HP
Chilled Water Pump	\$30.00
Heating Hot Water Pump	\$30.00
Condenser Water Pump	\$30.00
HVAC Fan	\$30.00
Cooling Tower	\$30.00

Motor Size (HP) (A)	VSD Application	VSD Quantity (B)	Rebate per VSD (C)	VSD Rebate (A x B x C)
<b>Total VSD Rebate:</b>				

## Efficient Motors Qualifications

Rebates are offered for three-phase AC induction motors, from 1 to 200 HP, of open drip-proof (open) and totally enclosed fan-cooled (closed) classifications. Rewound motors do not qualify. Rebates are based on the motor's nominal full load efficiencies, tested in accordance with IEEE (Institute of Electrical and Electronics Engineers) Standard 112, method B, that meet or exceed the CEE Premium (at least one efficiency percentage above NEMA premium) on the Motor Rebates Worksheet. CEE eligible motors can be found at:

[http://www.cee1.org/ind/motrs/CEE\\_MotorsListApril2010a.xls](http://www.cee1.org/ind/motrs/CEE_MotorsListApril2010a.xls)

The application must include the manufacturer's performance data sheet that shows motor type, motor horsepower, model number, and efficiency rating.

# VARIABLE SPEED DRIVES AND MOTORS REBATE WORKSHEET

**Note:** Must complete a Motor VSD Inventory Worksheet in combination with this application. Motor naming convention is ODP/open and TEFC/closed for three phase HVAC motors. Motors purchased prior to December 19, 2010 may still be eligible for rebates. Call 1-866-432-5501 for more information, or visit [pplelectric.com/e-power/resources](http://pplelectric.com/e-power/resources).

Was a Rewound motor considered and quoted as an option to replacement? Y/N

Efficient Motors — Minimum Qualifying Efficiencies								
Horse Power	Speed in RPM	Nominal Efficiency		Rebate per Motor		QTY		Total
		Open	Closed	Open	Closed	Open	Closed	
1	3600	84.0%	84.0%	\$25.00	\$30.00			
	1800	N/A	86.5%	N/A	\$45.00			
	1200	N/A	84.0%	N/A	\$45.00			
1.5	3600	85.5%	85.5%	\$45.00	\$30.00			
	1800	N/A	87.5%	N/A	\$55.00			
	1200	87.5%	N/A	\$40.00	N/A			
2	3600	86.5%	86.5%	\$30.00	\$45.00			
	1800	N/A	87.5%	N/A	\$65.00			
	1200	88.5%	N/A	\$30.00	N/A			
3	3600	87.5%	87.5%	\$30.00	\$45.00			
	1800	90.2%	90.2%	\$40.00	\$65.00			
	1200	89.5%	90.2%	\$55.00	\$80.00			
5	3600	89.5%	89.5%	\$40.00	\$55.00			
	1800	N/A	90.2%	N/A	\$70.00			
	1200	90.2%	90.2%	\$50.00	\$115.00			
7.5	3600	89.5%	90.2%	\$115.00	\$90.00			
	1800	N/A	92.4%	N/A	\$80.00			
	1200	91.7%	91.7%	\$220.00	\$170.00			
10	3600	90.2%	91.0%	\$55.00	\$90.00			
	1800	N/A	92.4%	N/A	\$100.00			
	1200	92.4%	91.7%	\$240.00	\$200.00			
15	3600	91.0%	91.7%	\$115.00	\$195.00			
	1800	N/A	93.0%	N/A	\$100.00			
	1200	92.4%	92.4%	\$245.00	\$230.00			
20	3600	91.7%	92.4%	\$120.00	\$155.00			
	1800	93.6%	93.6%	\$145.00	\$150.00			
	1200	93.0%	92.4%	\$245.00	\$325.00			
25	3600	93.0%	92.4%	\$155.00	\$250.00			
	1800	94.1%	N/A	\$155.00	N/A			
	1200	93.6%	N/A	\$150.00	N/A			
30	3600	93.6%	92.4%	\$175.00	\$250.00			
	1800	N/A	94.1%	N/A	\$250.00			
	1200	94.1%	93.6%	\$150.00	\$320.00			
40	3600	93.6%	93.0%	\$150.00	\$265.00			
	1800	94.5%	94.5%	\$220.00	\$275.00			
	1200	94.5%	94.5%	\$240.00	\$480.00			
50	3600	93.6%	93.6%	\$145.00	\$390.00			
	1800	95.0%	95.0%	\$130.00	\$375.00			
	1200	94.5%	94.5%	\$240.00	\$530.00			
60	3600	94.1%	94.1%	\$155.00	\$390.00			
	1800	95.4%	N/A	\$255.00	N/A			
	1200	95.0%	95.0%	\$280.00	\$565.00			
75	3600	94.1%	94.5%	\$490.00	\$480.00			
	1800	95.4%	N/A	\$320.00	N/A			
	1200	95.0%	95.0%	\$280.00	\$720.00			
100	3600	94.5%	94.5%	\$490.00	\$870.00			
	1800	N/A	95.8%	N/A	\$805.00			
	1200	95.4%	95.4%	\$395.00	\$1,250.00			
125	3600	94.5%	95.4%	\$445.00	\$595.00			
	1800	95.8%	95.8%	\$500.00	\$875.00			
	1200	95.4%	95.4%	\$470.00	\$780.00			
150	3600	94.5%	95.8%	\$330.00	\$750.00			
	1800	96.2%	96.2%	\$315.00	\$1,050.00			
	1200	95.8%	96.2%	\$625.00	\$1,465.00			
200	3600	95.4%	95.8%	\$625.00	\$875.00			
	1800	96.2%	96.5%	\$540.00	\$905.00			
	1200	95.8%	N/A	\$980.00	N/A			
<b>Total Motor Rebate:</b>								

# CUSTOM INCENTIVE PROJECT SPECIFICATIONS

All Custom Incentive Projects require a pre-approval application.

## Submittal Requirements for Custom Projects

1. Submit Custom Incentive Measure Worksheet with a detailed description of the project, commissioning plan, measurement plan (if applicable), and calculation of savings estimate. **THE SUBMITTAL MUST BE APPROVED TO BE CONSIDERED FOR AN INCENTIVE.**
2. Install Measures, commission project, and have savings verified.
3. Submit final application with required project documentation.
4. Large Commercial and Industrial projects will be placed on a waitlist as of June 1, 2011.

## Instructions for Energy Savings Calculations for Custom Projects

Custom Project Incentives are based on first year kWh savings that result from efficiency improvements for the first 12 months following installation. The peak demand savings should also be estimated. The peak period is defined by the Pennsylvania Public Utility Commission as the 100 hours of highest demand between June 8 and September 10 and between 12:00 and 20:00 hours. If a measure is covered under the Efficient Equipment rebates (prescriptive Measures) and does not qualify for the prescriptive rebate, it can not be applied for as a custom project.

## Energy Savings Calculations

Provide calculations documenting the predicted energy consumption of the existing (or baseline) and proposed system using appropriate analytical tools and clearly stated assumptions. All analysis should be provided in electronic format. All assumptions such as operating hours, efficiencies, existing and proposed equipment operational details must be presented. Engineering algorithms and procedures from recognized technical organizations such as ASHRAE, SMACNA, ANSI, etc. must be used. Use rated performance factors tested under accepted procedures specified by recognized rating agencies such as AHRI, ANSI, ASTM, etc. Provide an explanation when equipment performance rating conditions vary from standard conditions.

In support of the calculations, extensive documentation must be provided that provides the basis for the savings estimates. The documentation must provide information on the equipment operating schedule, daily and seasonal load profile, and baseline AND energy efficient equipment performance at the operating loads. Typical documentation for custom projects often includes but is not limited to:

- Baseline/existing and proposed equipment make and model number including operating voltage and rated full load amps.
- Existing equipment condition and age
- Engineering or architectural drawings and "equipment schedule" sheets
- Component specification sheets that include part load efficiency or performance factors
- Spreadsheet calculations or input/output files and results from system modeling or other engineering analysis using accepted engineering algorithms and practices
- Log sheets, trend logs from a building management system, or other operating documentation that are often necessary to document operating hours and equipment loading, and used as a basis for the calculations (in some cases, short term monitoring may be required to document the load profile)
- Control sequence of operations that are necessary where controls play a part in the savings equation

Additional documentation, other than that described in the application, may be required for program participation. Projects may also require pre- and post-project sub metering, or monitoring of loads and/or power input as part of another measurement and verification activity to demonstrate the actual energy savings.

## Baseline for Custom Analysis

Where equipment is replaced prior to the end of its rated service life in order to achieve energy savings, the existing equipment performance may be used as the baseline in the energy savings calculations. Where equipment is replaced due to failure, or when it is determined to be at or near the end of its rated service life or for other reasons (such as obsolescence or a need for more capacity), the baseline performance used in the savings calculation should be either the minimum performance that would be required by code for that equipment type and application (where a code applies) or the performance of the equipment that would have been selected as the customer's "standard practice" when a code does not apply.

## Commissioning and Measurement Plan

The purpose of the Commissioning and Measurement Plan document is to identify the process for each of the projects to ensure proper quantitative demonstration of performance.

# CUSTOM INCENTIVE WORKSHEET

All custom applications require a pre-approval application.  
Please attach supporting documentation.

Prior to submitting application, please contact the program staff.

epowersolutions@kema.com  
1-866-432-5501

Rebate Levels	First Year kWh Savings	\$0.10/first year kWh
<b>Custom Rebate Caps (per year)</b>	% of Total Project Cost	50%
	Per Site	\$500,000
	Per Parent Company	\$2,000,000

Item 1			
System Description			Subtotal
Before Retrofit	After Retrofit		
		kWh Savings	\$0.10
		Measure Cost*	
		Annual Oper. Hrs	\$/kWh
Item 2			
System Description			Subtotal
Before Retrofit	After Retrofit		
		kWh Savings	\$0.10
		Measure Cost*	
		Annual Oper. Hrs	\$/kWh
Item 3			
System Description			Subtotal
Before Retrofit	After Retrofit		
		kWh Savings	\$0.10
		Measure Cost*	
		Annual Oper. Hrs	\$/kWh
Item 4			
System Description			Subtotal
Before Retrofit	After Retrofit		
		kWh Savings	\$0.10
		Measure Cost*	
		Annual Oper. Hrs	\$/kWh
<b>Total Custom Project Cost:</b>			
<b>Total Custom Rebates:</b>			

\* Measure Cost is the cost to implement rebated efficiency measures less all costs incurred to achieve other project benefits. The Measure Cost may be the increment required to deliver an efficiency improvement over the base case efficiency. In-house labor is not considered part of project cost, only out-of-pocket expenses are eligible.