



Case No.: 11-5087-EL-EEC

Mercantile Customer: **Forest Hills Local School District**

Electric Utility: **Duke Energy Ohio**

**Program Title or
Description:** LED Wall Wash Lights

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. 10-834-EL-POR

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name: **Forest Hills Local School District**

Principal address: **7550 Forest Rd, Cincinnati, OH 45255**

Address of facility for which this energy efficiency program applies:

1500 Nagel Rd, Cincinnati, OH 45255

Name and telephone number for responses to questions:

Electricity use by the customer (check the box(es) that apply):

- The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please refer to Appendix A)
- The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

A) The customer is filing this application (choose which applies):

- Individually, without electric utility participation.
- Jointly with the electric utility.

B) The electric utility is: **Duke Energy Ohio**

C) The customer is offering to commit (check any that apply):

- Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

- Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)).
- Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s): _____.
- Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s): _____.
- Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

- 1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) - (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 20,554 kWh

Refer to Appendix B for calculations and supporting documents.

- 2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.
-

Section 4: Demand Reduction/Demand Response Programs

- A) The customer's program involves (check the one that applies):
- Coincident peak-demand savings from the customer's energy efficiency program.
 - Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
 - Potential peak-demand reduction (check the one that applies):
 - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
- B) On what date did the customer initiate its demand reduction program?

- C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):
_____ kW

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

Option 1: A cash rebate reasonable arrangement.

OR

Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

A cash rebate of \$_____. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

A commitment payment valued at no more than \$95.68. (Refer to Appendix C)

OR

- Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- Total Resource Cost (TRC) Test. The calculated TRC value is: _____ (Continue to Subsection 1, then skip Subsection 2)
- Utility Cost Test (UCT) . The calculated UCT value is: **55.9** (Skip to Subsection 2.)

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were \$9,091.

The utility's program costs were \$66.97.

The utility's incentive costs/rebate costs were \$95.68.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
 - 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.



DUKE ENERGY CORPORATION
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 419 5572 fax

September 8, 2011

Mr. Ray Johnson
Forest Hills School District
7550 Forest Road
Cincinnati, OH 45255

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate

Dear Mr. Johnson:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page two, a total rebate of \$95.68 has been proposed for your lighting retrofit project(s) completed in the 2010 calendar year. All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).

At your earliest convenience, please indicate if you accept this rebate by

- providing your signature on page two
- completing the PUCO-required affidavit on page three.

Please return the documents to my attention via fax, (513) 491-5572, or e-mail, selfdirect@duke-energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

At Duke Energy, we value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Cory C. Gordon'.

Cory C. Gordon
Product Manager
Mercantile Self Direct Rebates

cc: Deanna Bowden, Duke Energy
Rob Jung, WECC
K.C. Schnieder, Johnson Electric Supply Company

Please indicate your response to this rebate offer within 30 days of receipt.

Rebate is accepted.

Rebate is declined.

By accepting this rebate, Forest Hills School District affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.

Additionally, Forest Hills School District also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.

Finally, Forest Hills School District affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.

If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects?

YES

NO

If rebate is declined, please indicate reason (optional):


Customer Signature

Raymond R. Johnson
Printed Name

9/2/11
Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	MH to LED Wallpacks	\$11.96 per fixture * 8 fixtures = \$95.68
ECM-2		
ECM-3		
ECM-4		
ECM-5		
Total		\$95.68



**Public Utilities
Commission**

**Application to Commit
Energy Efficiency/Peak
Demand Reduction
Programs
(Mercantile Customers
Only)**

Case No.: ____ - ____ -EL-EEC

State of _____ :

Raymond R Johnson, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Forest Hills Local School District
[insert customer or EDU company name and any applicable name(s) doing business as]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

Raymond R Johnson Director, Business Operations
Signature of Affiant & Title

Sworn and subscribed before me this 8th day of September,
2011 Month/Year

Ellen Chamberlain
Signature of official administering oath

ELLEN CHAMBERLAIN
Notary Public, State of Ohio
Commission Expires **12-09-2013**
Print Name and Title

My commission expires on 12-09-13

Appedix A - Account Billing History

34402141 01

Electric Meter# 106967958

FOREST HILLS LOCAL
1500 NAGEL RD
CINCINNATI, OH 45255

Date	Days	Actual KWH
7/21/2011	30	104,312
6/21/2011	32	137,333
5/20/2011	30	123,710
4/20/2011	29	103,744
3/22/2011	29	119,942
2/21/2011	31	144,864
1/21/2011	32	129,065
12/20/2010	33	154,427
11/17/2010	29	140,428
10/19/2010	29	144,579
9/20/2010	32	171,540
8/19/2010	29	118,864
Annual Total		1,592,808

Appendix B - Energy Savings Achieved

As-Found Equipment	Equipment Wattage	Annual Operating Hours	Annual kWh	New Equipment	Equipment Wattage	Annual Operating Hours	Annual kWh	Energy Savings (kWh each)
250W Nominal Metal Halide	295	8,760	2,584	LED Wallpack	22	8,760	193	2,391

Quantity	Total Energy Savings (kWh) AT THE METER	Electric Line Losses	Total Energy Savings (kWh) AT THE PLANT
8	19,132	7.43%	20,554

The following (19) pages include customer's application and supporting documents.

Smart Saver®
Nonresidential Custom Incentive Application
PART 1



Proposed energy efficiency measures may be eligible for Custom Incentives if they clearly reduce electrical consumption and/or demand as compared to the appropriate baseline.

Before you complete this application, please note the following important criteria:

- Incentive approval is required PRIOR to equipment purchase, or any other activity which would indicate that the Duke Energy account holder has already decided to proceed with the proposed project.
- Submitting this application does not guarantee an incentive will be approved.
- Incentives are based on electricity conservation only.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Simple payback without incentive must be greater than 1 year.
- Incomplete applications cannot be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, beginning on page 7.

Notes on the Application Process

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact your Duke Energy account manager or the Duke Energy Smart Saver® team at 1-866-908-4921.

Every application must include calculations of the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment/system. Monthly calculations are best. You, the Duke Energy customer, or your equipment vendor / engineer should perform these calculations and submit them to Duke Energy for review. *We strongly encourage the use of modeling software (such as eQuest or comparable) for complex projects.*

Upon receipt of your application, an acknowledge email will be sent to you with an estimated response time based on an initial assessment of your application. The application review may include some communication to resolve any questions about the project or to request additional information. Applications that are received complete without missing information have a faster review time. If you choose to proceed with your project before the review process is complete, you will forfeit eligibility.

There are three ways to submit your completed custom incentive application.

Email your scanned form to: CustomIncentives@duke-energy.com

Or, fax your form to 980-373-9755

Or, mail to: Custom Incentives
Duke Energy
P.O. Box 1006 / EC2ZA
Charlotte, NC 28201

Smart Saver[®]
Nonresidential Custom Incentive Application
PART 1



1. Contact Information (Required)

Duke Energy Customer Contact Information					
Company Name	Forest Hills School District				
Address	7550 Forest Road				
Project Contact	Ray Johnson				
City	Cincinnati	State	Ohio	Zip Code	45255
Title	Director, Business Operations				
Office Phone	231-3600	Mobile Phone	616-8464	Fax	231-3830
E-mail Address	ray.johnson@foresthills.edu				

Equipment Vendor / Contractor / Architect / Engineer Contact Information					
Company Name	Johnson Electric Supply Company				
Address	1841 Riverside Drive				
City	Cincinnati	State	Ohio	Zip Code	45202-1738
Project Contact	K.C. Schnieder				
Title	Sales				
Office Phone	513-421-3700	Mobile Phone		Fax	513-421-2469
E-mail Address					
Describe Role	Supplier of fixtures				

Payment Information					
Payee Legal Company Name (as shown on Federal income tax return):	Forest Hills Local School District				
Mailing Address	7550 Forest Road				
City	Cincinnati	State	Ohio	Zip Code	45255
Type of organization (check one) <input type="checkbox"/> Individual/Sole Proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Unit of Government <input type="checkbox"/> Non-Profit (non-corporation)					
Payee Federal Tax ID # of Legal Company Name Above:	31-6008411				
Who should receive incentive payment? (select one) <input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below)					
If the vendor is to receive payment, please sign below: I hereby authorize payment of incentive directly to vendor:					
Customer Signature _____ Date ____/____/____ (mm/dd/yyyy)					

Smart Saver®
Nonresidential Custom Incentive Application
PART 1



2. Project Information (Required)

- A. Please indicate project type:
- New Construction (Duke Energy account number not yet established)
 - Expansion at an existing facility (existing Duke Energy account number)
 - Replacing equipment that is estimated to have remaining useful life of 2 years or less
 - Replacing equipment that is estimated to have remaining useful life of more than 2 years
- B. Please describe your project, or attach a detailed project proposal that describes the project.
Replace emergency lighting that operates 24/7/365. Currently, lighting provided by eith 250W HID fixtures. Replacement lighting is eight 20W LED fixtures. Reduce total wattage from 2000 watts to 160 watts.
- C. If awarded an incentive, when do you plan to start and complete implementation?
Start date / (mm/yyyy): End date 12/2010 (mm/yyyy)
- D. Are you also applying for Smart Saver® prescriptive incentives and, if so, which one(s)¹?
No
- E. Please indicate which worksheet(s) you are submitting for this application (check all that apply):
- Lighting
 - Variable Frequency Drive (VFD)
 - Compressed Air
 - Energy Management System (EMS)
 - General (for projects not easily submitted using one of the above worksheets)
- F. Please tell us if there is anything about your electrical energy projections (either for the baseline or the proposed project) that you are either unsure about or for which you have made significant assumptions. Attach additional sheets as needed.

Required: Attach a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application. (Note: self-install costs cannot be included in the Implementation Cost)

Optional: please tell us how you heard about Smart Saver® Incentives (check all that apply)

Duke Energy representative Web site Radio Contractor/vendor

¹ If your project involves some equipment that is eligible for prescriptive incentives and some equipment that is likely eligible for custom incentives, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.

Smart \$aver[®]
Nonresidential Custom Incentive Application
PART 1



Other

Smart \$aver[®]
Nonresidential Custom Incentive Application
PART 1



3. Project Questionnaire (Required – must be completed and signed by Duke Energy customer)

The intent of *Duke Energy's* Smart \$aver[®] Nonresidential Custom Incentive Program is to cause the implementation of high efficiency energy saving project that would otherwise *not* be completed without the program's assistance (whether that be financial, technical, or other). Please take a moment to complete the following statement.

1. Please indicate if the *Duke Energy* incentive is/was a factor in your choice to install the more energy efficient equipment instead of other equipment that may not have saved as much energy.

Select only one:

- A. Program assistance/incentive has an influence on our decision, or
 B. Program assistance/incentive has no influence at all on our decision

2. If the *Duke Energy* incentive was a factor in your decision, please indicate how much of an influence the program incentive/service had on your energy efficient equipment choice. Please check the number that best represents the level of influence the program has on your equipment choice.

Select only one:

The Duke Energy program had no effect on our equipment choice	The Duke Energy program may have had a minor influence on our energy efficient equipment choice.	The Duke Energy program had a positive influence in our selection of the energy efficient equipment	The Duke Energy program was one of the key reasons for the energy efficient equipment choice, but not the most important reason	The Duke Energy program was one of the most important reasons for the energy efficiency equipment choice	The Duke Energy program was the primary reason for the energy efficient equipment choice
0 <input type="checkbox"/>	1 <input type="checkbox"/> 2 <input type="checkbox"/>	3 <input type="checkbox"/> 4 <input type="checkbox"/>	5 <input type="checkbox"/> 6 <input type="checkbox"/>	7 <input type="checkbox"/> 8 <input type="checkbox"/>	9 <input type="checkbox"/> 10 <input type="checkbox"/>

3. Do you think that you would have or will select the same level of energy efficiency if the program information and technical assistance would not have been available to you?

Select only one:

- A. No, we would make a different equipment selection or not do the same project
 B. Not sure what we would do
 C. Yes, we would make exactly the same equipment choice.

4. Do you think that you would have or will select the same level of energy efficiency if the program's financial incentives would not have been available to you?

Select only one:

- A. No, we would make a different equipment selection or not do the same project
 B. Not sure what we would do
 C. Yes, we would make exactly the same equipment choice.

Smart Saver®
Nonresidential Custom Incentive Application
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5. Signature (Required – must be signed by Duke Energy customer)

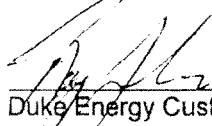
Customer Consent to Release of Personal Information

I, (insert name) Ray Johnson, do hereby consent to Duke Energy disclosing my Duke Energy Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy's Smart Saver Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Account Number and Federal Tax ID Number in the strictest of confidence.

I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy to release the information set forth above. By my signature, I freely give Duke Energy permission to release the information designated above.

Application Signature

I certify that I meet the eligibility requirements of the *Duke Energy* Smart Saver® Custom Incentives Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien).



Duke Energy Customer Signature

Print Name Ray Johnson

Date July 27, 2011

Smart Saver®
 Nonresidential Custom Incentive Application
 PART 1



Checklist for completing the Application

INCOMPLETE APPLICATIONS WILL RESULT IN DELAYS IN DUKE ENERGY PROCESSING YOUR APPLICATION AND NOTIFYING YOU CONCERNING AN INCENTIVE. Before submitting the application and the required supplementary information, use the following checklist to ensure that your application is complete and the information in the application is accurate. (Note: this checklist is for your use only – do not submit this checklist with your application)

Section No. & Title	Have You:
1. Contact Information	<input type="checkbox"/> Completed the contact information for the Duke Energy customer? <input type="checkbox"/> Completed the contact information for the equipment vendor / project engineer that can answer questions about the technical aspects of the project, if that is a different person than above?
2. Project Information	<input type="checkbox"/> Answered the questions A-E, including providing a description of your project. <input type="checkbox"/> Completed and attached the lighting, compressed air, VFD, EMS and/or General worksheet(s)?
3. Project Questionnaire	<input type="checkbox"/> Completed questions 1 – 6? (NOTE: check to ensure that you checked only one box for each) <input type="checkbox"/> Entered a rating number from 1 to 10 for each item for which you checked "Yes" in question 5? <input type="checkbox"/> Completed question 7? <input type="checkbox"/> Checked the box in question 7 and attached a separate sheet (if your answer does not fit within the box for question 7)?
4. Signature	<input type="checkbox"/> Signed your name? <input type="checkbox"/> Printed your name? <input type="checkbox"/> Entered the date?
Supplementary information (Required)	<input type="checkbox"/> Attached a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application? (Note: self-install costs cannot be included in the Implementation Cost) <input type="checkbox"/> (If submitting the General Worksheet) attached calculations documenting the energy usage and energy savings for each project listed in your application?

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact:

- your Duke Energy account manager
- or,
- the Duke Energy Smart Saver® team at 1-866-908-4921.

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PART 1



Instructions/Terms/Conditions

Note: Please keep for your records- do not submit with the application

1. Customers who opt out of the Energy Efficiency Rider are not eligible for Custom Incentives.
2. Before starting a custom energy efficiency project, the *Duke Energy* customer must complete and submit this application to *Duke Energy* for approval. Smart \$aver[®] Custom Incentives cannot be granted without prior completion of this application, and subsequent approval by *Duke Energy*. Energy service companies or contractors may assist in preparing the application, but an authorized representative of the customer must sign this application to be eligible to participate in the Smart \$aver[®] Program. Completion of this application does not guarantee the approval of a Custom Incentive.
3. Do not begin your energy efficiency projects or purchase equipment until you receive written approval in the form of an acceptance letter from *Duke Energy*, or your application will be rejected.
4. Once all documentation requested in this application is received by *Duke Energy*, and any follow-up information requested by *Duke Energy* is received, the Preliminary Incentive Amount for each Energy Conservation Measure (ECM) will be communicated to the customer. The Preliminary Incentive Amount will be based on the projected energy savings and ECM incremental installation cost.
5. With the application, the customer must provide a list of all sites where the ECMs will be installed. *Duke Energy* requests that sites of similar size, hours of operation and energy consuming characteristics be grouped together in one application for the determination of the incentive amount. The application should identify the site where each unique ECM will be initially installed. *Duke Energy* will conduct a pre-site inspection and install any metering and monitoring that may be required to determine the Approved Incentive Amount for each unique ECM. A post-installation site inspection will be conducted after each unique ECM installation.
6. Based on the information submitted with the application and the information gathered both before and after the initial installation of the ECM, *Duke Energy* will calculate the Approved Incentive Amount for each ECM. *Duke Energy* will provide an updated copy of the Smart \$aver Preapproved Incentives form with the Approved Incentive Amount within five business days of gathering the information needed from the post-installation site inspection.
7. *Duke Energy* will conduct random site inspections of a sample of the locations where the ECMs are installed both prior to and after installation to verify installation and operability of the ECMs and to obtain information needed to calculate the Approved Incentive Amount.
8. The Payment Request Form must be submitted to *Duke Energy* within 60 days of completion of the projects associated with this application. Copies of equipment invoices must be submitted to *Duke Energy* with the Smart \$aver Custom Incentive Payment Request form.
9. *Duke Energy* will issue a Custom Incentive check, based on the Approved Incentive Amount for each ECM, upon receiving the Smart \$aver Incentive Payment Request form from the customer. Approved Incentive Amounts may be adjusted if the project varies from the information originally submitted by the customer.
10. Customers are encouraged to retain copies of all forms, invoices and supporting documentation for their records.
11. Approved Incentive Amounts are valid for 6 months from the date communicated to the customer by *Duke Energy*. *Duke Energy* retains the right to adjust the Approved Incentive Amount before the end

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of the six months due to regulatory requirements; measurement, verification and evaluation results; or any valid unforeseen reason.

12. If the Incentive Amount needs to be adjusted for an ECM, *Duke Energy* will notify the customer of the adjustment as soon as possible. The Approved Incentive Amount, prior to the adjustment, will be valid for projects completed within 60 days of the date that *Duke Energy* notifies the customer of the adjusted Approved Incentive Amount.
13. *Duke Energy* reserves the right to recover all unrecoverable costs associated with the project approval if the customer decides not to complete the project, after the project is approved by *Duke Energy*.
14. Projects financially supported by other funding sources will be evaluated on a case-by-case basis for potential partial funding from *Duke Energy*.
15. Participants must be *Duke Energy* nonresidential customers with the project sites in the *Duke Energy* service territory.
16. Customers or trade allies may not use either the *Duke Energy* or the Smart \$aver Program name or logo without prior written permission.
17. Only trade allies registered with *Duke Energy* are eligible to participate.
18. All equipment must be new. Used or rebuilt equipment is not eligible for incentives. All old existing equipment must be removed on retrofit projects.
19. Disclaimers: *Duke Energy*
 - a. does not endorse any particular manufacturer, product or system design within the program;
 - 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. (Contact your contractor for details regarding equipment warranties.);
 - d. is not responsible for the proper disposal/recycling of any waste generated or obsolete or old equipment as a result of this project;
 - e. is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment; and
 - f. reserves the right to change or discontinue this program at any time. The acceptance of program applications is determined solely by *Duke Energy*



The Lighting Worksheet is part 2 of the application. Do not submit this file without submitting a completed Part1 Custom Application document file, which can be found at www.duke-energy.com.

Before you complete this application, please note the following important criteria:

- Incentive approval is required PRIOR to equipment purchase, or any other activity which would indicate that the Duke Energy customer has already decided to proceed.
 - Submitting this application does not guarantee an incentive will be approved.
 - Incentives are based on electricity conservation only.
 - Electric demand and/or energy reductions must be well documented with auditable calculations.
 - Simple payback without incentive must be greater than 1 year.
 - Incomplete applications will not be reviewed; all fields are required.
- Refer to the complete list of Instructions and Disclaimers, found in the Custom Application Part 1 document.

Please enter your information and data into the cells that are shaded.
 Cells in white are locked and cannot be written over.

Duke Energy Customer Contact Information (Match the information in Application Part 1):

Name	Ray Johnson
Company	Forest Hills School District

Equipment Vendor / Project Engineer Contact Information

Name	K.C Schneider
Company	Johnson Electric Supply Company

Before proceeding with the custom application, please verify that your project is not on the prescriptive incentive application. The prescriptive incentive applications can be found at:

- KY <http://www.duke-energy.com/kentucky-business/energy-management/energy-efficiency-incentives.asp>
 Kentucky only: custom incentives only available to K-12 school facilities; prescriptive incentives available for those not on rate TT.
- OH <http://www.duke-energy.com/ohio-business/energy-management/energy-efficiency-incentives.asp>
- NC <http://www.duke-energy.com/north-carolina-business/energy-management/energy-efficiency-incentives.asp>
- SC <http://www.duke-energy.com/south-carolina-business/energy-management/energy-efficiency-incentives.asp>

Prescriptive incentives are already pre-approved and the application is submitted after project implementation.

Take note of the equipment eligibility on the prescriptive application before planning to utilize the prescriptive application.



Please enter your information and data into the cells that are shaded.
 Cells in white are locked and cannot be written over.

List of Sites (Required)

Project/ Site (see note 1)	Site Name	Electric Account Number(s) (see note 2)	Site Address	Area (sq ft)	Location within Facility	Location Type	Indoor or Outdoor?
Example	Distribution Center	12345678 01	Example: 123 Main Street, Anywhere USA 12345	1000	Warehouse	Industrial	Indoor
1	Nagel Middle School	3440-2141-01-0	1500 Nagel Rd, Cincinnati, OH 45255		Corridor or	K-12	Indoor
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

If your application involves more than 20 lighting projects, please check here and use multiple worksheets.

1. Project/Site

You can write over the default project/site number with a store #, building identifier, or other reference that distinguishes one project/location from another.

2. Electric Account Number(s)

If there are multiple meters at a site, only include the Duke Energy account numbers that pertain to the project.
 Currently active account number(s) are required for an existing facility. For new construction, write in "new construction."



Project/ Site	Hours of Use (see note 3)												Controls (see note 5)		
	24 x 7		Weekday		Saturday		Sunday		Total Annual Hours of Use	Weeks of Use in Year (see note 4)	Existing		Proposed Type of Control	Description	
	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour			Type of Control	Hours Reduction			Occupancy
Example	No	8:00 AM	7:00 PM	10:00 AM	6:00 PM	1:00 PM	6:00 PM	12:00am	12:00am	52	3,536	None	0%	Occupancy	Applying for Prescriptive Incentive
1	Yes	12:00am	12:00am	12:00am	12:00am	12:00am	12:00am	12:00am	12:00am	52	8,760	None			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

³ Hours of Use
 For unoccupied times, leave applicable cells blank.

⁴ Weeks of Use in Year

If the lighting fixtures are not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when they are not expected to be in use and why:

⁵ Controls

Please attach more description of existing and/or proposed controls if more space is needed. If sufficient description is not provided, then controls portion of project will not be evaluated. Attach assumptions and calculations to support estimated reduction in hours that result from the controls.
 New occupancy sensors should be applied for through the prescriptive application unless ineligible for prescriptive.
 New or upgraded EMS/building controls require a separate application part 2. Without the separate application, EMS portion of the project will not be evaluated for an incentive.



Project/ Site	Existing Fixture(s)										Total Demand (kW)
	Existing Fixture Installation Year (see note 6)	Fixture Type	Fixture Manufacturer (see note 6)	Fixture Model Number (see note 6)	Lamps per Fixture	Fixture Size	Fixture Input Power (watts) (see note 7)	Quantity of Fixtures			
<i>Example</i>	1995	High Pressure Sodium	Manufacturer	Model #	1	1	190	175	33		
2	1999	Metal Halide			1	1	250	8	2		
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Application Total								8	2		

6 Information on Existing Fixture(s)

Optional - please provide as much information as you can.

For new construction projects, provide information on the light fixture(s) that would meet the building code in your location.

7 Fixture Input Power (watts)

Provide actual input power (in watts), not nominal power rating. For example, a 400 watt (nominal) metal halide fixture has a typical input power of approximately 459 watts.



Project/ Site	Fixture Type	Fixture Manufacturer (see note 8)	Fixture Model Number (see note 8)	Proposed Fixture(s)		Proposed Fixture(s)				Projected Savings			Incremental Project Cost \$ (see note 11)						
				Warranty of Proposed Fixtures (years)	Lamps per Fixture	Fixture Input Power (watts) (see note 9)	Quantity of Fixtures	Total Demand (kW)	Lumen Output per Fixture	Lumen/Sq Ft	Demand (kW)	Annual Energy (kWh)		Other Annual Savings \$ (see note 10)					
Example	T8 Fluorescent	Manufacturer	Model #	5.0	1.0	78	225	18	0	0	0	0	55,515	\$1,265	\$29,215				
1	LED	RAB Lighting	WPLED20	5.0	1.0	20	8	0	0	0	0	0	16,118	\$951	\$1,272				
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
Application Total													8	0	\$951	2	16,118	\$951	\$1,272
Average Electric Rate \$/kWh													\$0.059	Estimated Annual Electric Savings	\$951	Project Simple Electric Payback (see note 12)	1.3	years	

8 Fixture Manufacturer and Model Number

Attach a scanned copy of a spec sheet for each fixture that includes the input power (watts), lumen output and other relevant information. For eligible LED fixtures, refer to the FAQs for Custom Incentives found at www.duke-energy.com and attach required documents if necessary.

9 Fixture Input Power (watts)

Provide actual input power (in watts), not nominal power rating. For example, a 400 watt (nominal) metal halide fixture has a typical input power of approximately 459 watts.

10 Other Annual Savings \$

Optional. Estimate other annual savings in addition to electric (for example operations/maintenance savings).

11 Incremental Project Cost \$

Attach a copy of a formal proposal with the projected project costs.

For new construction projects, a formal proposal is also required with the projected costs for the light fixture(s) that would meet the building code in your location.

12 Project Simple Electric Payback

If the simple payback on the project is less than 1 year, then the project is not eligible for a custom incentive. Please check that the electric rate is accurate based on history.



* FOUNDED 1907 *

REMIT TO
 THE JOHNSON ELECTRIC SUPPLY CO.
 1841 Riverside Dr.
 Cincinnati, Ohio 45202-1736

HEADQUARTERS
 BLUE ASH
 1841 Riverside Dr.
 Cincinnati, OH 45202-1738
 Phone (513) 421-3700
 FAX (513) 421-2469

S O L D T O
 FOREST HILLS SCHL DISTRICT
 7550 FOREST RD
 CINCINNATI OH 45255

S H I P T O
 FOREST HILLS SCHL DISTRICT
 7550 FOREST RD
 CINCINNATI OH 45255

ALL PAST DUE ACCOUNTS MAY BE SUBJECT TO SERVICE CHARGES OF 1 1/2% PER MONTH.
 ALL CLAIMS FOR ERRORS OR OVER CHARGES ON BIL. MUST BE REPORTED WITHIN 10 DAYS FROM RECEIPT OF GOODS.



FOUNDED 1938

INVOICE NO.	INVOICE DATE	SHIPPED BIL	PURCHASE ORDER	ACCT NO.	PAGE OF	PO/IC
10020360	09/23/10		200576	053700	1	1

LN NO.	QUANTITY		NAED VENDOR NO. ITEM NUMBER	MANUFACTURER - CATALOG NO. - DESCRIPTION	U M	UNIT PRICE	AMOUNT
	ORDERED	SHIPPED					
7	7		01981397200	RAB WPLED20 20W LED WALL B	E	159.00	1113.00

PAID
 CK. NO. _____
 DATE _____

DEDUCT \$	11.13	IF PAID BY	10/10/10	TOTAL	1113.00
				SALES TAX	.00
				TRANSPORTATION	
				PLEASE PAY THIS AMOUNT	1113.00

Seller represents that with respect to the production of the articles and/or the performance of the services covered by this invoice, it has fully complied with the Fair Labor Standards Act of 1938, as amended.

A RESTOCKING CHARGE MAY BE APPLIED TO ALL RETURNED MERCHANDISE. NO CREDIT WILL BE ALLOWED WITHOUT PRIOR AUTHORIZATION.

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ORIGINAL INVOICE

05 D1



Electric Supply Company

HEADQUARTERS

1641 Riverside Dr.
Cincinnati, OH 45202-1738
Phone (513) 421-3700
FAX (513) 421-2468

BLUEASH

4566 Cornell Rd
Blue Ash, OH 45241-2425
Phone (513) 247-3700
FAX (513) 247-3704

FOREST HILLS SCHL DISTRICT
7550 FOREST RD
CINCINNATI OH 45255

FOREST HILLS SCHL DISTRICT
7550 FOREST RD
CINCINNATI OH 45255

* FOUNDED 1907 *

REMIT TO
THE JOHNSON ELECTRIC SUPPLY CO.
1641 Riverside Dr.
Cincinnati, Ohio 45202-1738

ALL PAST DUE ACCOUNTS MAY BE SUBJECT TO SERVICE CHARGES OF 1 1/2% PER MONTH.
ALL CLAIMS FOR ERRORS OR OVER CHARGES ON BILL MUST BE REPORTED WITHIN 10 DAYS FROM RECEIPT OF GOODS.

MEMBER



FOUNDED 1926

INVOICE NO.	10020361	INVOICE DATE	09/24/10	EMPIRED VIA		PURCHASE ORDER	200576	ACCT. NO.	053700	PAGE OF	1	FOLD	1
-------------	----------	--------------	----------	-------------	--	----------------	--------	-----------	--------	---------	---	------	---

LN NO.	BACK ORD.	QUANTITY ORDERED	QUANTITY SHIPPED	NAED VENDOR NO. ITEM NUMBER	MANUFACTURER - CATALOG NO. - DESCRIPTION	U M	UNIT PRICE	AMOUNT
		1		01981397200	RAB WPLED20 20W LED WALL B	E	159.00	159.00

PAID
CK. NO. _____
DATE _____

DEDUCT \$	1.59	IF PAID BY	10/10/10	TOTAL	159.00
				SALES TAX	.00
				TRANSPORTATION	
				PLEASE PAY THIS AMOUNT	159.00

*Seller represents that with respect to the production of the articles and/or the performance of the services covered by this invoice, it has fully complied with the Fair Labor Standards Act of 1938, as amended.

A RESTOCKING CHARGE MAY BE APPLIED TO ALL RETURNED MERCHANDISE. NO CREDIT WILL BE ALLOWED WITHOUT PRIOR AUTHORIZATION.

CELEBRATING 100+ YEARS!

05
D1

ORIGINAL INVOICE

**PURCHASE ORDER
PO Copy 1**

FOREST HILLS SCHOOL DISTRICT
Treasurers Office
100 Forest Road
Cincinnati, OH 45255
513-231-3600

DATE
09/14/2010

PURCHASE ORDER NO.
200576 Page: 1

These numbers must appear on all letters, Invoices, Shipping Memos, Bills of Lading, Express Receipts and Packages
PLEASE ACKNOWLEDGE RECEIPT AND ACCEPTANCE OF THIS ORDER.

INVOICE IN DUPLICATE

VENDOR TO: Vendor: 015600
JOHNSON ELECTRIC SUPPLY CO
1841 RIVERSIDE DRIVE
CINCINNATI OH 45202

DELIVER TO: FOREST HILLS SCHOOL DIST
MAINTENANCE DEPARTMENT

ATTN: _____

TERMS:

REQUISITION NO: WDN05761

QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	ea	FOR 8 20 watt LED Lights to replace HID Decorative Lights at Nagel Middle	1280.00	1280.00

1270.00

PAGE TOTAL 1,280.00
GRAND TOTAL 1,280.00

TI	FUND	FUNC	OBJ	SPCC	SUBJ	OPU	IL	JOB	AMOUNT
05	001	2700	572	0000	000000	010	00	000	1,280.00

VERIFICATION OF RECEIPT OF GOODS
 Order Complete
 Items Back Order (Circle)
 Material Checked by: FW
 Date: 10-7-10
 Return to Business Office Upon Completion

It is hereby certified that the above amount required to meet the contract, agreement, obligation, payment or expenditure for the above, has been lawfully appropriated or authorized or directed for such purpose and is in the treasury or in process or collection to the credit of the Funds of the Board of Education free from any obligation or certification now outstanding.

TAX EXEMPT STATE ID 31-6008411
 THIS ORDER IS VOID UNLESS TREASURER'S CERTIFICATE IS SIGNED

Richard Bortz II 09/14/2010
Dated

Dellan R. Jackson 09/14/2010
Dated

Forest Hills Local School District

NO. 103845

JOHNSON ELECTRIC SUPPLY CO

INVOICE	PURCHASE ORDER	TI	FUND	FUNC	OBJ	SPCC	SUBJ	OPU	IL	JOB	AMOUNT
10988124	0199768	05	001	2700	572	0000	000000	012	00	000	153.36
DESCRIPTION:	Replacement	Air	Filters	for							1272.00
SEE ATTACHE	0200576	05	001	2700	572	0000	000000	010	00	000	
DESCRIPTION:	For 8 20 watt LED Lights to										
											\$1,425.36

DATE: 10/20/2010

TAC, CNQ, PATTY, BOC, LAMP, B, HREC, CA, Q, B, B, G, K, 10/20/2010 13:31:56 103845 1125 X



Forest Hills Local School District

7550 Forest Road
Cincinnati, Ohio 45255

PNC
Anderson Township Office
Cincinnati, Ohio

103845

13-39 085
420

DATE	CHECK NO	AMOUNT
10/20/2010	103845	\$*****1,425.36

One Thousand Four Hundred Twenty-Five Dollars and 36/100 Cents

Yellow AP

** VOID * VOID * VOID **

Void After 90 Days

**** NOT NEGOTIABLE ****

PAY
TO THE
ORDER
OF

JOHNSON ELECTRIC SUPPLY CO 015600
1841 RIVERSIDE DRIVE
CINCINNATI OH 45202-1738

RAB LIGHTING WPLED20



JOB NAME: _____
DATE: _____
TYPE: _____

DESCRIPTION

LED 20 Watt Wallpacks

SPECIFICATIONS

Ambient Temperature:

Suitable for use in 50C (122F) ambient temperatures

Cold Weather Starting:

The minimum starting temperature is -30-C

Color Accuracy:

70 CRI

Color Stability:

RAB LED products significantly exceed Energy Star Requirements for Chromatic Stability during LM-80 Testing.

Color Temperature (Nominal CCT):

5000 K (Daylight)

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

Driver:

Automatic Voltage Sensing Driver for 120 - 277 volts

Equivalency:

The WPLED20 is Equivalent in delivered lumens to a 150W Metal Halide Wallpack.

Finish:

Chip and fade resistant polyester powder coat finish.

Fixture Efficacy:

65 Lumens per Watt

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Gaskets:

High Temperature Silicone

Green Technology:

RAB LEDs are Mercury, Arsenic and UV

Free Replacement Range:

The WPLED20 can be used to replace 100-175W Metal Halide Wallpacks based on delivered lumens.

Heatsink:

Integral cast aluminum mounting pad and external fins for optimal heat sinking to ensure cool operation with maximum LED life and light output.

Housing:

Precision die cast aluminum housing, lens frame and mounting plate.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

LED Light Engine:

Two Multi-chip 10W high output long life LED Driver: Constant Current, Class 2

Patents:

The LPACK design is protected under patents pending in the U.S., Canada, China, Taiwan and Mexico.

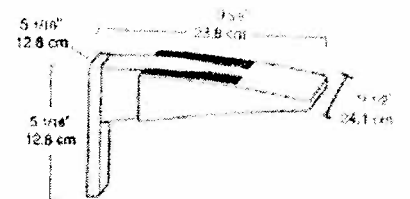
Total Harmonic Distortion:

THD = 8.4%

Two Mounting Options:

Junction Box with 5 Conduit Entry Points and Threaded Plugs for surface mounting plus Cover Plate for mounting over 4" recessed junction box included with WPLED20

DIMENSIONS



ORDERING INFORMATION

LED Lamp supplied with fixture	Total Watts	Lamp Type	Lamp Base	Ballast	Starting Amps/ Operating Amps				Input Watts	LAMP ANSI	Initial Lumens	Lamp Hours
					120V	208V	240V	277V				
	20	LED	Therm at	Constant Current	0.5	0.5	0.5	0.125	22.0	N/A	1401	50000
Factory Installed Options Add suffix to Catalog Number				Photocontrol for 277V (H2) nk				Photocontrol for 120V (PC)				

Note: Specifications may change without notice

RAB Lighting, Inc. • 170 Ludlow Ave • Northvale, NJ 07647 • Tel: 888 RAB-1000 • Fax: 888 RAB-1232 • www.rabweb.com
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Appendix C - Commitment Payment Calculation

Total Energy Savings (kWh) AT THE METER	Commitment Payment Rate (\$/kWh)	Commitment Payment
19,132	\$ 0.005	\$ 95.68