

Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AFP.com

June 28, 2013

Chairman Todd Snitchler Ohio Power Siting Board Public Utilities Commission of Ohio 180 East Broad Street Columbus, OH 43215-3793

Yazen Alami Regulatory Services (614) 716-2920 (P) (614) 716-2950 (F) yalami@aep.com

Re:	In the Matter of Paulding Exempted Village)	
	Schools and Ohio Power Company for)	Case No. 13-1394-EL-EEC
	Approval of a Special Arrangement)	
	Agreement with a Mercantile Customer)	

Dear Chairman Snitchler,

Attached please find the Joint Application of Ohio Power Company (OPCo) and mercantile customer Paulding Exempted Village Schools for approval of a Special Arrangement of the commitment of energy efficiency/peak demand reduction (EE/PDR) resources toward compliance with the statutory benchmarks for 2013.

Amended Substitute Senate Bill 221 sets forth in R.C. 4928.66 EE/PDR benchmarks that electric distribution utilities shall be required to meet or exceed. The statute allows utilities to include EE/PDR resources committed by mercantile customers for integration into the utilities programs to be counted toward compliance with a utility's EE/PDR benchmarks. The statute also enables the Commission to approve special arrangements for mercantile customers that commit EE/PDR resources to be counted toward compliance with EE/PDR benchmarks.

The Commission's Order in Case No. 10-834-EL-EEC, established a streamlined process to expedite review of these special arrangements by developing a sample application process for parties to follow for consideration of such programs implemented during the prior three calendar years. Attached is OPCo's version of that application and accompanying affidavit. Any confidential information referenced in the Joint Application has been provided to the Commission Staff for filing in Commission Docket 10-1799-EL-EEC, under a request for protective treatment. OPCo respectfully requests that the Commission treat the two cases as associated dockets.

Cordially,	
/s/ Yazen Alami	
Yazen Alami	

Attachments



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

Case No.: 13-1394-EL-EEC

Mercantile Customer: PAULDING EXEMPTED VILLAGE SCHOOLS

Electric Utility: Ohio Power

Program Title or Description: AEP Ohio Business Incentives for Energy Efficiency: Self Direct Program

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 <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Company Information

Name: PAULDING EXEMPTED VILLAGE SCHOOLS

Principal address: 405 N. Water Street, Paulding, Oh 45879

Address of facility for which this energy efficiency program applies: 405 N Water St, Paulding, Oh 45879-1251

Name and telephone number for responses to questions:

Maria Rellinger, Paulding Exempted Village Schools, (419) 399-4656

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

The customer uses more than seven hundred thousand kilowatt hours per year at our facility. (Please attach documentation.)

See Confidential and Proprietary Attachment 4 – Calculation of Rider Exemption and UCT which provides the facility consumption for the last three years, benchmark kWh, and the last 12 months usage.

The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.) When checked, see Attachment 6 – Supporting Documentation for a listing of the customer's

name and service addresses of other accounts in the AEP Ohio service

territory.

Section 2: Application Information

A)	The customer is filing this application (choose which applies):	
		Individually, on our own.
		Jointly with our electric utility.
В)	Our	electric utility is: Ohio Power Company
	"Co	application to participate in the electric utility energy efficiency program is nfidential and Proprietary Attachment 3 – Self Direct Program Project npleted Application."
C)	C) The customer is offering to commit (choose which applies):	
		Energy savings from our energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
		Capacity savings from the customer's response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
		Both the energy savings and the demand reduction 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 (choose which		$customer's\ energy\ efficiency\ program\ involves\ (choose\ whichever\ applies):$
		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): $1/31/2012$
		Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
		Behavioral or operational improvement.
В)	Ene	rgy savings achieved/to be achieved by your energy efficiency program:
	1)	If you checked the box indicating that your 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: kWh
	2)	If you checked the box indicating that you 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:
		Unit Quantity (watts) = Existing (watts x units) – Installed (watts x units)
		kWh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh /Unit)
		Annual savings: 15,671 kWh
		See <u>Confidential and Proprietary Attachment 5 – Self Direct Program</u> Project Calculation for annual energy savings calculations and 10-1599-EL-

<u>EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

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

<u>See 10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

3) If you checked the box indicating that your 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 you 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):	
Choose one or more of the following 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 w	hat date did the customer initiate its demand reduction program?	
	The coincident peak-demand savings are permanent installations that reduce demand through energy efficiency and were installed on the date specified in Section 3 A above.		
C)	C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):		
	Uni	t Quantity (watts) = Existing (watts x units) - Installed (watts x units)	
		Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))	
		.8 kW	

See <u>Confidential and Proprietary Attachment 5 – Self Direct Program Project</u> <u>Calculation</u> for peak demand reduction calculation, and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

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			
		on 2: An exemption from the cost recovery mechanism implemented e electric utility.		
	OR			
	Com	mitment payment		
B)	The value	of the option that we are seeking is:		
	Option 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):		
		A cash rebate of \$ 1,312.50. (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.)		
		See <u>Confidential and Proprietary Attachment 5 – Self Direct</u> <u>Program Project Calculation</u> for incentive calculations for this mercantile program.		
	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 \$ (Attach documentation and calculations showing how this payment amount was determined.)
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 an ongoing efficiency program that is practiced by our organization. (Attach documentation that establishes your organization's ongoing efficiency program. In order to continue the exemption beyond the initial 24 month period your organization 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

Published June 17, 2013 -9-

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for a description of the project. See <u>Attachment 6 Supporting Documentation</u>, for the specifications of the replacement equipment <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed. Due to the length of time since the equipment replacement, the make, model and year of the replaced equipment is not available.
- A copy of the formal declaration or agreement that commits your program to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - See <u>Attachment 2 Self Direct Program Project Blank Application</u> including Rules and Requirements. All confidentially requirements are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and <u>Proprietary Attachment 3 Self Direct Program Project Completed Application.</u>)
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - See Attachment 2 Self Direct Program Project Blank Application including Rules and Requirements. All consequences of noncompliance are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application.
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - None required because the resources committed are permanent installations that reduce demand through increased efficiency during the Company's peak summer demand period generally defined as May through September and do not require specific coordination and communication to provide demand reduction capabilities to the Company.

- 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,
 - See <u>Attachment 2 Self Direct Program Blank Application</u> including Rules and Requirements granting such permission pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as <u>Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application</u>.
- 5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for the commitment to comply with any information and compliance reporting requirements imposed by rule or as part of the approval of this arrangement by the Public Utilities Commission of Ohio.
- 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.
 - The Company applies the same methodologies, protocols, and practices to Self Direct Program retrospective projects that are screened and submitted for approval as it does to prospective projects submitted through its Prescriptive and Custom Programs. The Commission has not published a technical reference manual for use by the Company so deviations can not be identified. The project submitted is a prescriptive project and energy savings are determined as described in Confidential and Proprietary Attachment 5 Self Direct Program Project Calculation, and 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.



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

Case No.: 13-1394-EL-EEC			
State of Ohio:			
Arranda Chaig_, Affiant, being duly sworn according to law, deposes and says that:			
1. I am the duly authorized representative of:			
KEMA Services, Inc agent of Ohio Power			
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.			
Signature of Affiant & Title			
Sworn and subscribed before me this 16th day of 1013 Month/Year			
Sworn and subscribed before me this 16th day of Ame, 2013 Month/Year My Down, Manager Signature of official administering oath Print Name and Title			
My commission expires on			
Angie Doan Notary Public, State of Ohio My Commission Expires 01-13-2016			



Attachment 1 Self Direct Project Overview & Commitment Page 1 of 1

Self Direct Project Overview & Commitment

The Public Utility Commission of Ohio (PUCO) will soon review your application for participation in AEP Ohio's Energy Efficiency/Peak Demand Response program. Based on your submitted project, please select by initialing one of the two options below sign and fax to 877-607-0740.

Customer Name	PAULDING EXEMPTED VILLAGE SC	HOOLS
Project Number	AEP-13-10201	
Customer Premise Address	405 N WATER ST, PAULDING, OH 458	79-1251
Customer Mailing Address	405 N. Water Street, Paulding, OH 45879	3
Date Received	5/3/2013	
Project Installation Date	1/31/2012	
Annual kWh Reduction	15,671	
Total Project Cost	\$4,268.50	
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$1,750.00	10000
Simple Payback (vrs)	3.2	2 75 70
Utility Cost Test (UCT)	3.4	
	Please Choos	ie One Optjon Below and Initial
Option 1 - Self Direct EEC: 75%	\$1,312.50	Initial: MR
Option 2 - EE/PDR Rider Exemption	5 Months (After PUCO Approval)	Initial:
Option 2 - EE/PDR Rider Exemption Note: This is a one time selection. By selecting Option 1, the cut EE/PDR rider exemption, will result in the customer not being e Ohio during the period of exemption. In addition, the term of Op- and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected.	istomer will receive payment in the amount stated ligible to participate in any other energy efficien pation 2: EE/PDR rider exemption is subject to on	d above. Selection of Option 2: acy programs offered by AEP going review for compliance ciency projects?
Note: This is a one time selection. By selecting Option 1, the cu EE/PDR rider exemption, will result in the customer not being e Ohio during the period of exemption. In addition, the term of Op and could be changed by the PUCO.	istomer will receive payment in the amount stated ligible to participate in any other energy efficien pation 2: EE/PDR rider exemption is subject to on	d above. Selection of Option 2: acy programs offered by AEP going review for compliance
Note: This is a one time selection. By selecting Option 1, the cut EE/PDR rider exemption, will result in the customer not being e Ohio during the period of exemption. In addition, the term of Op- and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds sele-	istomer will receive payment in the amount stated ligible to participate in any other energy efficiention 2: EE/PDR rider exemption is subject to on cted help you move forward with other energy efficient	d above. Selection of Option 2: acy programs offered by AEP going review for compliance ciency projects?

The documentation that was included with the application proved that the energy measures applied for were purchased and installed.

By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.

Ohio Power Company		PAULDING EXEMPTED VILLAGE SCHOOLS	
By:	For J. Will	By: Maria Rellinger	
Title:	Manager	Title: Treasurer/CFO	
Date:	5/30/2013	Date: 5/30/13	

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



STEPS FOR SUBMITTING YOUR APPLICATION

Step 1: Verify Project, Equipment and Customer Eligibility

- Project must be a facility improvement that produces a permanent reduction in electrical energy usage (kWh).
- ✓ Facilities must be AEP electric customers that are considered "mercantile" under the definition of the Public Utilities Commission of Ohio (PUCO).
- Projects must operate at least 2,245 hours per year to qualify for credits. Projects with annual energy (kWh) savings greater than the facility's annual energy (kWh) consumption are not eligible.
- All installed equipment must meet or exceed the specifications outlined in the application.
- ✓ Equipment must be installed in facilities served by AEP Ohio.
- Customer must have a valid AEP Ohio account number on an eligible AEP Ohio non-residential account or approved agricultural account.

Step 2: Submit Application

- Complete the Checklist page.
- Read the Terms and Conditions.
- ✓ Attach the documentation listed:
- Completed Applicant Information form
- Completed and signed Customer Agreement form
- Measure worksheet(s)
- Scope of work (type, quantity, and wattage of old and new equipment)
- Dated and itemized invoices for the purchase and installation of all equipment installed
- Specifications for all equipment installed showing that it meets program specifications
- Submit a completed application via email, fax or mail prior to November 15, 2013, for any projects completed on or after January 1, 2010. Any applications received after the deadline may not be submitted to the Public Utilities Commission of Ohio (PUCO) by December 31, 2013, which may jeopardize approval.

Step 3: Project Review

- The program team will review your application. The review of some projects will require an inspection; the team will contact applicants requiring an inspection for scheduling.
- ✓ After approval by AEP Ohio, the customer will receive an Overview and Commitment form to sign and return. The project will then be submitted to the PUCO for consideration. The PUCO will assign a case number and review the project details prepared by AEP Ohio. The PUCO may request additional information, or approve or reject the energy efficiency credits.

Step 4: Receive Energy Efficiency Credits

- ✓ The program team will issue energy efficiency credits four to six weeks after the PUCO approves a project.
- In lieu of a one-time energy efficiency credit, you may elect to seek an exemption from the Energy Efficiency/Peak Demand Reduction (EE/PDR) rider for the associated electric account(s) for a defined period of time as stated in this application. For this exemption, the energy efficiency credit amount (Option 1) is compared to the estimated value of the EE/PDR obligation (Option 2), as calculated by AEP Ohio. The value of Option 2 will be approximately equal to the value of Option 1. If exemption is elected, the affective account is not eligible for other programs offered by AEP Ohio during the exemption period. Unless additional resources are committed, you will, after the specified number of months exempted, again be subject to the EE/PDR rider. New construction projects are not eligible to elect Option 2. Major renovation projects that do not have a representative billing history for three years prior to the project installation also are not eligible to elect Option 2.
- ✓ If the energy efficiency credit is elected, you remain in the EE/ PDR rider for the period of time that an exemption would have been in effect and may also participate in AEP Ohio programs. However, during that period of time, you are not allowed to elect the Option 2 exemption for any additional self-direct projects for the same account number.
- ✓ You are allowed and encouraged to consider using all or a portion of the energy credits, as received from AEP Ohio under this program, to help fund other energy efficiency and demandreduction projects you choose to initiate in the future. Future projects also can qualify for credits under the prescriptive or custom programs.

AEP Ohio Business Incentives Program

2740 Airport Drive, Suite 160 Columbus, OH 43219 Phone: (877) 607-0739

Fax: (877) 607-0740

aepohioincentives@dnvkema.com

Visit our website at aepohio.com/incentives.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



CHECKLIST

FINAL APPLICATION			
Required Attachments Completed and signed Applicant Information form Completed Final Payment Agreement form including Energy Efficiency Credits Requested section Itemized invoices Equipment specifications Scope of work W-9 (LLC, individual, partnership, property management companies)	Credit Worksheets¹ Lighting HVAC Motors & Drives Compressed Air Refrigeration/Food Service Agriculture & Miscellaneous Transformer UPS Custom New Construction Lighting Application date Estimated project cost Expected completion date ¹Incomplete applications will delay processing and receipt of energy efficiency credits.		
Revised Submittal Please complete below if this is a revised submittal.			
Submittal date AEP Project Number (if known) AEP - 1			

AEP Ohio Business Incentives Program

2740 Airport Drive, Suite 160 Columbus, OH 43219 Phone: (877) 607-0739 Fax: (877) 607-0740

aepohioincentives@dnvkema.com

Visit our website at aepohio.com/incentives.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



TERMS AND CONDITIONS

AEP Ohio offers prescriptive and custom credits under the AEP Ohio Business Incentives Program to facilitate the implementation of past cost-effective energy efficiency improvements for non-residential customers. AEP Ohio provides energy efficiency credits (EEC) for the purchase and installation of qualifying cost-effective equipment in the customer's facility under the Terms and Conditions provided in this application and subject to regulatory approvals. EEC will only be provided in the form of a check or an Energy Efficiency/Peak Demand Reduction (EE/PDR) rider exemption under this program.

Please note that funds are limited and subject to availability.

Program Effective Dates

AEP Ohio Business Incentives Program offers credits until approved funds are exhausted or November 15, 2013, whichever comes first. The effective dates of the current AEP Ohio Business Incentives Program and application submittal requirements are as follows:

- Self-direct projects are projects completed since January 1, 2010. Self-direct projects are eligible to apply for EEC with this application. Current or future projects should apply using a prescriptive or custom application.
- All 2013 AEP Ohio Business Incentives Program applications should be received no later than November 15, 2013. Any applications received after the deadline may not be submitted to the Public Utility Commission of Ohio (PUCO) by December 31, 2013, which may jeopardize approval. AEP Ohio reserves the right to extend or shorten this timeline.

Program and Project Eligibility

The AEP Ohio Business Incentives Program offers both prescriptive credits for some of the more-common energy efficiency measures and custom credits for other eligible improvements not included on the list of prescriptive measures. Credits available under the AEP Ohio Business Incentives Program include non-residential accounts or approved agricultural accounts served on AEP Ohio's regulated retail rates.

Qualifying projects must be installed in a facility in AEP Ohio's electric service territory in Ohio. Credits are available to all non-residential accounts or approved agricultural accounts that pay into the EE/PDR rider and receive their electricity over AEP Ohio wires, regardless from which retail electric supplier the customer has chosen to purchase power. A customer may neither apply for nor receive credits for the same product, equipment or service from more than one utility.

Custom projects must involve measures that result in a reduction in electric energy usage due to an improvement in system efficiency. Projects that result in reduced energy consumption without an improvement in system efficiency are not eligible for a custom credit. The project simple payback prior to the credit payment generally should fall between 1 to 7 years, or pass cost-effectiveness test(s) determined by AEP Ohio to qualify for a credit.

Projects involving measures covered by the prescriptive credit portion of the program are not eligible for a custom credit. However, the applicant has the option to apply for a custom credit for whole building integrated projects or systems, even if they include prescriptive measures. Prescriptive elements may be capped at the deemed savings and/or credit level.

The self-direct program applies to customer facilities served by AEP Ohio's retail electric rates that are defined as "mercantile" and meet the minimum energy usage requirements of 700,000 kWh per year, or that are part of a national account involving multiple facilities in one or more states.

Facilities must be eligible under the definition of "mercantile" as designated by the PUCO. All applications are subject to review and approval by AEP Ohio, its contractor(s)/agent(s) and the PUCO prior to any EEC payments or exemptions from the EE/PDR rider in this program.

Project requirements under the AEP Ohio Business Incentives Program include the following:

- Projects must involve a new facility improvement with capital improvements that results in a permanent reduction in electrical energy usage (kWh). Existing/old equipment must be functional and in operation.
- Any measures installed at a facility must produce verifiable
 and persistent energy reduction and must be sustainable
 and provide 100% of the energy benefits as stated in the
 application for a period of at least five (5) years or for the life
 of the product, whichever is less. If the customer ceases to
 be a delivery service customer of AEP Ohio or removes the
 equipment or systems at any time during the 5-year period or
 the life of the product, the customer may be required to return
 a prorated amount of credit funds to AEP Ohio.
- All equipment must be new.
- All installed equipment must meet state, federal and local codes and requirements.
- Projects must be installed on the AEP Ohio electric account in Ohio served by an eligible electric rate.
- Equipment must be purchased, installed and operating (or capable of operating in the case of seasonal uses) prior to submitting an application for a credit.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



TERMS AND CONDITIONS

- AEP Ohio will issue credit payments in the form of checks, not utility bill credits.
- The credit is paid as a one-time, one-program offer and cannot be combined with incentive payments from other AEP Ohio programs. The customer may be eligible to participate in other programs offered by AEP Ohio, as long as no project receives more than one credit or incentive.

Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the PUCO for further review and approval.

Projects that are NOT eligible for a credit include the following:

- Fuel switching (e.g., electric to gas or gas to electric)
- Changes in operational and/or maintenance practices or simple control modifications not involving capital costs (Please visit aepohio.com/incentives for Retro-Commissioning Program or Continuous Improvement Program)
- Removal or termination of existing processes, facilities and/or operations
- On-site electricity generation
- Projects involving gas-driven equipment in place of or to replace electric equipment (such as a chiller)
- Projects focused primarily on power factor improvement
- Projects that involve peak-shifting (and not kWh savings)
- Used or rebuilt equipment
- · Costs associated with internal labor
- Renewables (Please visit aepohio.com/save for Renewables Program)
- Projects required by state or federal law, building or other codes, or projects that are standard industry practice
- Projects easily reverted/removed or projects installed entirely for reasons other than improving energy efficiency
- Other conditions to be determined by AEP Ohio

Energy Efficiency Credit Limits

For both prescriptive and custom measures in this application, total EEC shall be 75% the lesser of: 1) The calculated credit as approved by AEP Ohio or 2) 50% of total project cost (not including internal labor). In calculating the savings and EEC for custom measures, please contact the AEP Ohio Business Incentives Program office to determine an appropriate baseline for savings. In addition to the above project cost limit, credit payment rates vary when a customer's calculated credit exceeds the tiers listed below:

PROGRAM ENER	GY EFFICIENCY CREDITS
Energy efficiency credit levels for one-year energy savings	See tables for prescriptive credits. Custom credits: \$0.08/kWh x 75%.
Minimum/maximum simple payback before energy efficiency credit applied	Must pass cost effectiveness test(s) determined by AEP Ohio; generally between one and seven years
Maximum payout	75% of 50% of the total cost (additional measure caps may apply)
Energy efficiency credit levels for projects completed since 1/1/2010	Calculated amount on the prescriptive or custom worksheets attached and subject to funding limits
Credit limit	See Credit Limits and Tiering section
Credit calculation order	Measure credit caps are applied first. Project-cost credit limits are applied second. Credit tiering is applied third. Lastly, 75% factor is applied to credit.

Energy Efficiency Credit Tiering

The total credit paid for any self-direct application cannot exceed 50% of the total project cost (not including internal labor). In addition to the above project cost limit, credit payment rates vary when a customer's calculated credit exceeds the tiers listed below:

- Tier 1 \$0 \$100,000 = 100% of eligible calculated credit value
- Tier 2 \$100,001 \$300,000 = 50% of eligible calculated credit value
- Tier 3 \$300,001 \$500,000 = 25% of eligible calculated credit value
- Tier 4 \$500,001 beyond = 10% of eligible calculated credit value

Application Review Process

Applications are not a guarantee of program acceptance and energy efficiency credits. AEP Ohio will review applications for eligibility and completeness. Completed applications will be reviewed in the order received. Funds are reserved for the project when AEP Ohio receives a completed application and determines that the project meets the program eligibility requirements. Upon review of the application, the program will notify applicants who submit incomplete applications of deficiencies; applicants may lose their place in the review process until receipt of all requested information. Applications must be completed and all information received by the deadlines defined above to begin processing. Applicants are encouraged to call the program hotline with any questions about documentation requirements.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



TERMS AND CONDITIONS

Application

Projects completed on or after Jan 1, 2010, must submit an application and all required supporting documentation by November 15, 2013, to be applicable for the 2013 program year. Any applications received after the deadline may not be submitted to the PUCO by December 31, 2013, and could jeopardize approval.

A signed application with supporting project documentation verifying project installation and capital improvements must be submitted to AEP Ohio prior to application approval. Project documentation, such as (but not limited to) copies of dated invoices for the purchase and installation of the measures, equipment specification sheets, energy-savings analysis, complete application and W-9 forms (LLC, individual, partnership, property management companies), is required. The invoice should provide sufficient detail to separate the project cost from the costs of other services not related to the energy efficiency project and other repairs. The location or business name on the invoice must be consistent with the application information.

AEP Ohio reserves the right to request additional supporting documentation as deemed necessary to ensure measure eligibility and verify that the expected energy savings will occur. Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the PUCO and the evaluators. Requested information could include equipment purchase dates, installation dates, proof that the equipment is operational, manufacturer specifications, savings calculation documentation, monitoring data, warranty information and proof of customer copayment.

Inspections

The AEP Ohio Business Incentives Program reserves the right to inspect all projects to verify compliance with the program rules and verify the accuracy of project documentation. This may include installation inspections, verification of detailed lighting layout descriptions, metering, data collection, interviews and utility bill or monitoring data analysis. Customers are required to allow access to project documents and the facility where the measures were installed for a period of five years after receipt of credit payment by AEP Ohio. In the event a building(s) are turned over to a new account holder/owner before AEP Ohio officially measures and verifies incentivized equipment, AEP Ohio reserves the right to do so under new ownership. Customer understands and agrees that program installations may also be subject to inspections by the PUCO or its designee, and photographs of installation may be required.

Requirements for Custom Project Electricity Savings Calculation

The annual electricity savings must be calculated for custom projects using industry-accepted engineering algorithms or simulation models. The applicant may estimate the annual electricity usage of both the existing and proposed equipment based on the current operation of the facility. A listing of the preexisting information requirements is provided at the end of the custom application section. If 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. Documentation of early replacement decision and/or actual equipment energy usage will be required. If equipment is replaced due to failure 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.

If the previous equipment was at the end of its useful life, the applicant must use, as the baseline, the equipment that would meet the applicable federal and local energy codes unless an "as found" baseline is being used by the applicant. If the applicant is using an "as found" baseline, additional specific information on the pre-existing information must be provided.

The applicant must be able to clearly describe the method used to calculate the savings. The applicant must provide all assumptions used in the calculations and document the sources for these assumptions. If no savings analysis is provided by the customer/contractors, AEP Ohio reserves the right to utilize its approved methodology and analysis to determine energy savings.

The method and assumptions used by the applicant to calculate the annual savings will be reviewed by AEP Ohio. AEP Ohio is solely responsible for the final determination of the annual energy savings and peak-demand reduction used in calculating the credit amount. AEP Ohio also reserves the right to require specific measurement and verification activities, including monitoring the retrofit to determining the credit. Verification of the pre-existing consumption may also be required.

For custom and "as found" projects, the applicant is required to provide information in order to allow AEP Ohio to verify the baseline usage of the pre-existing equipment. AEP Ohio may need to conduct inspections of projects to verify equipment and operating conditions.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



TERMS AND CONDITIONS

Customers are encouraged to submit projects that warrant special treatment (i.e., non-typical projects) to be considered on a case-by-case basis by AEP Ohio.

Tax Liability

Credits are taxable and, if more than \$600, will be reported to the IRS unless the customer is exempt. AEP Ohio is not responsible for any taxes that may be imposed on your business as a result of your receipt of credit. A W-9 (for LLC, individual, partnership, property management companies) must be provided with all applications.

Disclaimer

Any and all energy savings and coincident demand generated by the project described in this application are hereby committed to AEP Ohio. That retained demand can be used to count against AEP Ohio's benchmark requirements in S.B. 221, regardless; any retained demand provided to PJM generation auctions must be done so by AEP Ohio only.

Peak-demand reduction is defined as the reduction in average load over the performance hours as a result of replacing existing electrical equipment with more-efficient electrical equipment. Peak performance hours are defined as the time between June 1 and August 31 on weekdays and non-holidays, between the hours 3:00 p.m. and 6:00 p.m. Eastern Standard Time. PJM Peak Hours are defined as the time between June 1 and August 31 on weekdays and non-holidays, between the hours 2:00 p.m. and 6:00 p.m. Eastern Standard Time.

AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measures eligible for credits under this program. AEP Ohio 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. AEP Ohio is not responsible for the proper disposal/recycling of any waste generated as a result of this project. AEP Ohio is not liable for any damage caused by the operation or malfunction of the installed equipment.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



APPLICANT INFORMATION

Important: Please read the Terms and Conditions before signing and submitting this application. Complete all information and provide required documentation to avoid processing delays.

Project Information		
Business Type	W-9 Tax Status	How Did You Hear About the Program?
(Select One)	(Select One)	(Select One)
Shift	Affected Area Square Footage	Dodge Report Number
(Select One)		
Building Operating Hours	Equipment Operating Hours	
Name of Applicant's Business		
Project Name (if applicable)	Name as It Appears on U	Utility Bill
AEP Ohio Account Number Where Measu	re Installed Taxpaye	er ID (SSN/FEIN)
Mailing Address	City	State OH Zip
☐ Check if mailing address and installati	on address are the same.	
Installation Address	City	State ^{OH} Zip
Customer Contact		
Please provide all contacts we may need to contractor contact.	o process this project. List the project decisi	ion-maker, the technical contact, etc. as the
Name of Contact (preferred contact for do	cumentation)	
Title of Contact	Phone #	Ext
Contact Fax #	Contact Email	
Solution Provider/Contractor	· Information¹	
Name of Contracting Company		
Name of Contact Person	Title of Contact	<u> </u>
Mailing Address	City	State_OHZip
Phone # Ext	Contact Fax #	Contact Email
If there are questions about the application	n who should we contact? Customer	Contractor

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



FINAL PAYMENT AGREEMENT

Final Payment Agreement

I understand that the application and all required documentation should be received by the AEP Ohio Business Incentives Program by November 15, 2013, for any projects completed on or after January 1, 2010. Any applications received after the deadline may not be submitted to the PUCO by December 31, 2013, and could jeopardize approval of any credit by the PUCO. All equipment must be purchased, installed and fully operational prior to submitting the application.

I understand that AEP Ohio or its representatives have the right to ask for additional information at any time. AEP Ohio Business Incentives Program will make the final determination of credit levels for this project.

I understand that this project must involve a facility improvement that results in improved energy efficiency.

As an eligible AEP Ohio account holder, I certify that decisions to acquire and install the indicated energy efficiency measures, which will be demonstrated with supporting documentation required by AEP Ohio, were made after January 1, 2010, and that work was completed on this project on or after January 1, 2010. The energy efficiency measures are for use in my business facility and not for resale.

I understand that the location and business name on the project documentation must be consistent with the application information. Project documentation, product specification sheets and details of measure installation are included. Documentation indicating contract dates prior to November 16, 2012, may render this application ineligible. I understand that all submissions become the property of AEP Ohio. It is recommended to keep a copy for your records.

I agree that if: (1) I did not install the related product(s) identified in my application or (2) I remove the related product(s) identified in my application before a period of five (5) years or the end of the product life, whichever is less, I shall refund a prorated amount of energy efficiency credits to AEP Ohio based on the actual period of time the related product(s) were installed and operating. This is necessary to assure that the project's related energy benefits will be achieved. (3) AEP Ohio will pay 75% of the lesser of: 1) The calculated credit as approved by AEP Ohio, subject to funding limits or 2) 50% of the project cost (subject to application caps). I understand that AEP Ohio or its representatives have the right to ask for additional information at any time. AEP Ohio Business Incentives Program will make the final determination of energy efficiency credit levels for this project.

I agree to be responsible to comply with any applicable codes

or ordinances. I also understand that all materials removed, including lamps and PCB ballasts, must be permanently taken out of service and disposed of in accordance with local codes and ordinances. I understand it is my responsibility to be aware of any applicable codes or ordinances. Information about hazardous waste disposal can be found at epa.gov/epawaste/hazard/index. htm.

I agree to verification by the utility or its representatives of both sales transactions and equipment installation. I understand that these credits are available to all non-residential accounts or approved agricultural accounts that pay into the Energy Efficiency and Demand Response (EE/PDR) rider and receive their electricity over AEP Ohio wires, regardless from which retail electric supplier the customer has chosen to purchase power.

I understand that AEP Ohio reserves the right to refuse payment and participation if the customer or contractor violates program rules and requirements. AEP Ohio is not liable for energy efficiency credits promised to customers as a result of misrepresentation of the program.

I understand that AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measure eligible for energy efficiency credits under this program. Furthermore, AEP Ohio has no obligations regarding any claims, promises, work or equipment made, performed or furnished by any contractors or equipment vendors that sell or install any energy efficiency measures and does not endorse or guarantee same

Energy efficiency credits will be based upon the Final Application and program terms and conditions, as well as the availability of funds.

I understand that the program has a limited budget. Applications will be processed until allocated funds are reserved or spent. Final Applications should be received by November 15, 2013, to be eligible for funding under the current program period.

I certify that the information on this application is true and correct, and that the taxpayer ID number, tax status and W-9 are the applicant's. I understand that credits exceeding \$600 will be reported to the IRS, unless the applicant is exempt. I understand that credits assume related energy benefits over a period of five (5) years or for the life of the product, whichever is less.

I understand that the program may be modified or terminated without prior notice.

I understand and agree that all other terms and conditions as specified in the application, including all attachments and exhibits

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



FINAL PAYMENT AGREEMENT

attached to this application, will serve as a contract for the customer's commitment of energy and demand resources to AEP Ohio and shall apply.

Any and all energy savings and coincident demand generated by the project described in this application are hereby committed to AEP Ohio. That retained demand can be used to count against AEP Ohio's benchmark requirements in S.B. 221, regardless; any retained demand provided to PJM generation auctions must be done so by AEP Ohio only.

ENERGY IS PRECIOUS. LET'S NOT WASTE IT.



CUSTOMER AGREEMENT

☐ I have read and understand the program requirements, measure specifications, and 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.

All equipment must be installed and operational. A customer signature is required for payment. Signed applications received by email or fax will be treated the same as original applications received by mail.

All submissions become the property of AEP Ohio. Keep a copy for your records.

Digital Signature Instructions

- 1. Click in the signature box.
- 2. Follow the digital signature directions displayed in the "Add Digital ID" pop-up box.
- 3. Establish a digital ID and password.
- In the "Sign Document" pop-up box, you can select to change the signature appearance from typed font to an imported graphic.
- 5. Follow directions to save signed application; signature and verification information will appear in the signature box.

Total Project Cost	Total Credits Requested ¹	
	·····	
Customer Signature (AEP Ohio Customer)	Print Name	
	·····	
Date	Project Completion Date	
03/08/13		

SUBMIT VIA EMAIL

PRINT APPLICATION

AEP Ohio will pay the lesser of 1) the calculated credit as approved by AEP Ohio or 2) 50% of the total project cost.

Havel Rager RTU 2010

March 28, 2011

Tag Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
B1	RT-85	1	8.5 Ton R410A PKGD Unitary Gas/Electric	YHC102E3RMAD00000000000

Product Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop

Item: B1 Qty: 1 Tag(s): RT-85

DX cooling, gas heat High efficiency

Convertible configuration

8.5 Ton

Major design sequence

208-230/60/3

Microprocessor controls 3ph

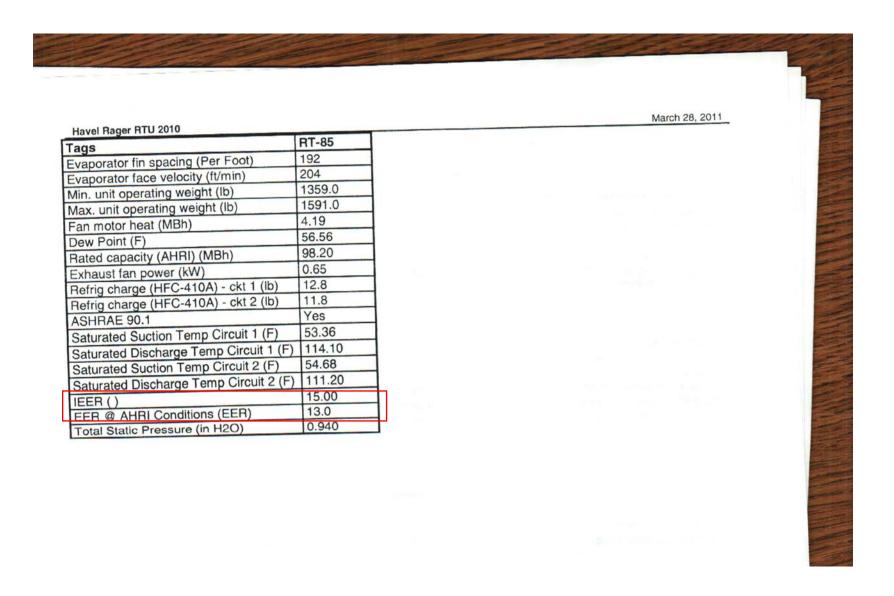
Medium gas heat 3ph

Economizer Dry Bulb 0-100% with Barometric Relief



Performance Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop

Tags	RT-85
Design Airflow (cfm)	3400
Airflow Application	Downflow
Cooling Entering DB (F)	80.00
Cooling Entering WB (F)	67.00
Ent Air Relative Humidity (%)	51.08
Ambient Temp (F)	95.00
Evap Coil Leaving Air Temp (DB) (F)	58.21
Evap Coil Leaving Air Temp (WB) (F)	57.20
Cooling Leaving Unit DB (F)	59.70
Cooling Leaving Unit WB (F)	57.77
Gross Total Capacity (MBh)	103.24
Gross Sensible Capacity (MBh)	80.00
Gross Latent Capacity (MBh)	23.24
Net Total Capacity (MBh)	99.05
Net Sensible Capacity (MBh)	75.81
Net Sensible Heat Ratio (Number)	0.77
Heating EAT (F)	40.00
Heating LAT (F)	73.00
Heating Delta T (F)	33.00
Input Heating Capacity (MBh)	150.00
Output Heating Capacity (MBh)	120.00
Output Heating Cap. w/Fan (MBh)	124.19
Design ESP (in H2O)	0.750
Component SP (in I I2O)	0.190
Field supplied drive kit required	None
Indoor mtr operating power (bhp)	1.52
Indoor RPM (rpm)	1300
Indoor Motor Power (kW)	1.13
Outdoor Motor Power (kW)	0.64
Compressor Power (kW)	6.47
System Power (kW)	8.24
IPLV @ AHRI (IPLV)	15.0
MCA (A)	44.70
MOP (A)	60.00
Compressor 1 RLA (A)	17.60
Compressor 2 RLA (A)	11.50
Evaporator fan FLA (A)	8.50
Condenser fan FLA (A)	2.70
Evaporator face area (sq ft)	16.65
Evaporator rows (Each)	4.00



June 20, 2011 Havel Rager RTU 2010

Tag Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop (Qty: 1)

Item	Tag(s)	Qtv	Description	Model Number
A 4			10 Ton R410A PKGD Unitary Gas/Electric	YHC120E3RHAD000000000000
A1	RT-10	1	10 Ton R410A PKGD Unitary Gas/Electric	THC 120ESKITA - BOCCOCC

Product Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop

Item: A1 Qty: 1 Tag(s): RT-10

DX cooling, gas heat High efficiency

Convertible configuration

10 Ton

Major design sequence

208-230/60/3

Microprocessor controls 3ph

High gas heat 3ph

Economizer Dry Bulb 0-100% with Barometric Relief



Performance Data - 3-10 Ton R410A PKGD Unitary Gas/Electric Rooftop

erformance Data - 3-10 Ton Terror	RT-10
ags (ofm)	4000
Design Airflow (cfm)	Downflow
irflow Application	80.00
Cooling Entering DB (F)	67.00
ting Entering WB (F)	51.08
ent Air Relative Humbers (197	95.00
	58.45
	57.41
Coil Leaving All Terrip	60.20
- Line Logying Unit DD (1)	58.08
Cooling Leaving Unit WB (F)	119.09
Gross Total Capacity (MBh)	93.10
Gross Sensible Capacity (MBh)	25.99
Gross Latent Capacity (MBh)	112.92
Net Total Capacity (MBh)	86.93
Net Total Capacity (MBh) Net Sensible Capacity (MBh)	0.77
Net Sensible Gapacity (Mumber)	40.00
Heating EAT (F)	86.50
Heating LAT (F)	46.50
Useting Delta T (F)	250.00
- Liberting Canacity (MDI)	200.00
	206.17
Output Heating Cap. w/Fan (MBh)	0.750
Output Heating US	
Design ESP (in H2O)	0.260
Component SP (in H2O)	None
	2.21
Indoor mtr operating power	1486
	1.65
	0.70
E MOTOL PUWO!	7.68
Compressor Power (NV)	10.03
Co. stom Power (KVV)	14.0
IPLV @ AHRI (IPLV)	50.30
MCA (A)	60.00
	20.50
- TRIA(A)	13.50
	8.50
- accorded tall I Live	2.70
	16.65
- retor tace alea (og	4.00
Tuesporator rows (Lacity	alled by

June 20, 2011

Havel Rager RTU 2010 Tags	RT-10
Evaporator fin spacing (Per Foot)	192
Evaporator face velocity (ft/min)	240
Min. unit operating weight (lb)	1369.0
Max. unit operating weight (lb)	1601.0
Fan motor heat (MBh)	6.17
Dew Point (F)	56.76
Rated capacity (AHRI) (MBh)	113.00
Exhaust fan power (kW)	0.65
Refrig charge (HFC-410A) - ckt 1 (lb)	12.8
Refrig charge (HFC-410A) - ckt 2 (lb)	11.8
ASHRAE 90.1	Yes
Saturated Suction Temp Circuit 1 (F)	53.49
Saturated Discharge Temp Circuit 1 (F)	117.97
Saturated Discharge Femp Circuit 2 (F)	53.90
Saturated Section Femp Circuit 2 (F)	113.02
	14.00
IEER () EER @ AHRI Conditions (EER)	12.5
Total Static Pressure (in H2O)	1.010

APPROVED

Vending Miser®

Improve the profitability of your existing cold drink machines. Vending Miser® puts you on a cost-effective refresher course for energy savings and conservation.

VendingMiser cuts energy costs down to size

VendingMiser incorporates its innovative energy-saving technology into a small, plug-and-play powerhouse that installs in minutes either on the wall or on the vending machine. It's that easy.

With VendingMiser there's no need to have new machines to achieve maximum energy savings resulting in a reduction in operating costs and greenhouse gas emissions. When equipped with the VendingMiser, refrigerated beverage vending machines use less energy and are comparable in daily energy performance to new ENERGY STAR® qualified machines.

Power play

Compatible with all types of cold drink vending machines, the VendingMiser uses a Passive Infrared Sensor (PIR) to power down the machine when the area surrounding it is vacant. Then it monitors the room's temperature and automatically re-powers the cooling system at one- to three-hour intervals, independent of sales, to ensure that the product stays cold.

This Miser runs the bank

For a series of up to four machines, VendingMiser can use its embedded Sensor Repeater, which allows it to be controlled from the PIR sensor of any other Miser in the bank.

Refresher course

VendingMiser's microcontroller will never power down the machine while the compressor is running, eliminating compressor short-cycling. In addition, when the machine is powered up, the cooling cycle is allowed to finish before again powering down. This reduces the wear and tear on your machines, extending the lifespan and prolonging your profitability. Maintenance savings is generated through reduced running time of vendor components – estimated at \$40 - \$80 per year, per machine. The VendingMiser has been tested and accepted for use by major bottlers.

VendingMiser reduces energy consumption an average of 46%—typically \$150 per machine.







ENERGY MANAGEMENT SYSTEM

For Refrigerated Vending Machines



Vending Miser offers...

- A quick, inexpensive solution to energy savings and conservation
- Longer machine lifespan
- Early return on investment
- Environmental benefits

VendingMiser can also control other cooled product vending machines, such as refrigerated candy machines.

VendingMiser Technical Specifications Electrical Specifications

Input Voltage: 115 Volts
Input Frequency: 50/60 Hz

Maximum Load: 12 Amps (Steady-State)
Power Consumption: Less than 1 Watt (Standby)

Environmental Specifications

Operating Temp: -15°C to 75°C Storage Temp: -40°C to 85°C

Relative Humidity: 95% Maximum (Non-Condensing)

Compatibility

Vending Machines: Any machine, except those containing perishable goods such as dairy products

Inactivity Timeouts

Occupancy Timeout: 15 minutes

Auto Re-power: One to three hours, dynamically adjusted,

based on ambient temperature

Dimensions

Size: 4.5"W x 1.75"H x 3.25"D

Weight: 2.2 lbs. (includes power cable)

Regulatory Approvals

Safety: UL/C-UL Listed

Information Technology Equipment (ITE) 9T79

Other energy-saving products offered by USA Technologies include VM2IQ™, CoolerMiser™, SnackMiser™ and PlugMiser™.

Frequently Asked Questions

Will VendingMiser® keep my drinks cold?

Absolutely - VendingMiser® has been tested and accepted for use by both major bottlers.

Is the VendingMiser® easy to install?

Yes! VendingMiser® is a simple external plug-and-play product. The VendingMiser® can be installed on the wall with simple hand tools or it can be attached to the vending machine without tools using the new Easy-Install system. The Easy-Install System allows quick installation in 5 minutes.

Is VendingMiser® safe for all machines?

Yes! VendingMiser® is compatible with all types of cold drink vending machines. In fact, by reducing run time of the machines, VendingMiser® reduces maintenance costs.

Has VendingMiser® been field tested?

Tens of thousands of VendingMisers® are operational in the field. Typical energy savings have been independently documented to be between 35% and 45%. Measurement and verification test results as well as testimonials are available on the website.

Are there any locations not appropriate for VendingMiser®?

VendingMiser's® savings are generated as a result of location vacancy. Therefore, a machine in a location that is occupied 24-hours, 7 days a week will likely generate little savings. Our VM2IQ is more appropriate for this type of location and will typically save up to 35% energy use.

Technical Specifications

ELECTRICAL SPECIFICATIONS

Input Voltage: 115 Volts (230 Volts available)

Input Frequency: 50/60 Hz

Maximum Load: 12 Amps (Steady-State)
Power Consumption: Less than 1 Watt (Standby)

ENVIRONMENTAL SPECIFICATIONS

Operating Temp: -15°C to 75°C
Storage Temp: -40°C to 85°C
Relative Humidity: 95% Maximum
(Non-Condensing)

COMPATIBILITY

Vending Machines: Any machine, except those

containing perishable goods such as dairy products.

Suc

INACTIVITY TIMEOUTS

Occupancy Timeout: 15 minutes
Auto Repower: 0ne to three hours,

dynamically adjusted, based

on ambient temperature

DIMENSIONS

Size: $4.5\text{"W} \times 1.75\text{"H} \times 3.25\text{"D}$ Weight: 2.2 lb. (incl. power cable)

REGULATORY APPROVALS

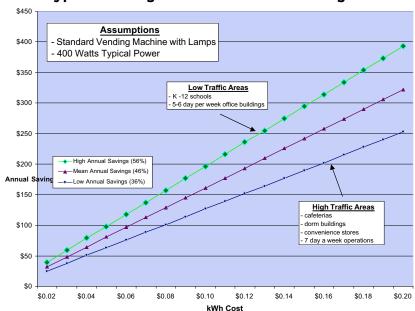
Safety: UL/C-UL Listed

Information Technology Equipment (ITE) 9T79





Typical Saving Generated with VendingMiser®



VendingMiser® Products

VM150	VendingMiser® with PIR Sensor
VM151	VendingMiser® only
VM160	Weatherproof VendingMiser® with PIR Sensor
VM161	Weatherproof VendingMiser® only
VM170	Easy-Install VendingMiser® with PIR Sensor
VM171	Easy-Install VendingMiser® only
VM180	Weatherproof Easy-Install VendingMiser w/PIR sensor
VM181	Weatherproof Easy-Install VendingMiser only

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/28/2013 12:13:41 PM

in

Case No(s). 13-1394-EL-EEC

Summary: Application In the Matter of Paulding Exempted Village Schools and Ohio Power Company for Approval of a Special Arrangement Agreement with a Mercantile Customer electronically filed by Mr. Yazen Alami on behalf of Ohio Power Company