

**Legal Department** 

American Electric Power
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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 Gerbers Poultry Inc.	)
	and Ohio Power Company for	) Case No. 13-1395-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 Gerbers Poultry Inc. 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.:** 13-1395-**EL-EEC** 

Mercantile Customer: GERBERS POULTRY INC

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. <u>10-834-EL-POR</u>

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**

territory.

Name: GERBERS POULTRY INC

Principal address: Po Box 206, Kidron, Oh 44636

Address of facility for which this energy efficiency program applies: 5889 Kidron Rd, Apple Creek, Oh 44606-9745

Name and telephone number for responses to questions:

Matt Shoup, Gerbers Poultry Inc, (330) 857-2731

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

# **Section 2: Application Information**

A)	The customer is filing this application (choose which applies):	
		Individually, on our own.
		Jointly with our electric utility.
B)	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)	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 demand 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 whichever app		
		Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, 6/15/2012 and the date on which the customer would have replaced your equipment if you had not replaced it 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)).
		The remaining life of the equipment varies and is not known with certainty. The future replacement date is unknown and has historically been at the end of equipment life. Replacement was completed early to achieve energy savings and to reduce future maintenance costs.
		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)	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:
	Uı	nit Quantity (watts) = Existing (watts x units) - Installed (watts x units)
	kV	Wh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh/Unit)
		Annual savings: 131,642 kWh
See <u>Confidential and Proprietary Attachment 5 – Self Direct Program</u> <u>Project Calculation</u> for annual energy savings calculations and <u>10-1599-El</u> <u>EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.		

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:

Annual savings: kWh

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

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)	B) On what 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):		
	Unit Quantity (watts) = Existing (watts x units) - Installed (watts x units)		
	<pre>KW Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit     (watts))</pre>		
	21.5 kW		

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this application for prescriptive measures, as needed.

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

## 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:		ner 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 the customer is are 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.)	
		OR	
		A cash rebate valued at no more than 50% of the total project cost, which is equal to \$ 4,544.55. (Attach documentation 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.	

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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**

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: $8.8$ (Skip to Subsection $2.$ )				
Subsection	Subsection 1: TRC Test Used (please fill in all blanks).				
av dis an	ne TRC value of the program is calculated by dividing the value of our roided supply costs (generation capacity, energy, and any transmission or stribution) by the sum of our program overhead and installation costs and y incremental measure costs paid by either the customer or the electric ility.				
	The electric utility's avoided supply costs were				
	Our program costs were				
	The utility's incremental measure costs were				
Subsection	on 2: UCT Used (please fill in all blanks).				
av (ir	e calculated the UCT value of our program by dividing the value of our oided supply costs (capacity and energy) by the costs to our electric utility including administrative costs and incentives paid or rider exemption costs) obtain our commitment.				
	Our avoided supply costs were \$ 47,123.38				
	The utility's program costs were \$ 789.85				
	The utility's incentive costs/rebate costs were \$ 4,544.55.				

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## **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.: 13-1395-EL-EEC			
,	State o	e of Ohio:		
ME	FLAN	NIE BOWSER, 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		
2	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.		
S	Signature of Affiant & Title Energy Engineer			
S	Sworn and subscribed before me thisday of			
S	ignatu	en and subscribed before me this	gle	
N	Ay cor	ommission expires on 1–13–2016		

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 you	ur submitted project, please select by initialing	g one of the two options	
below, sign and fax to 877-607-0740.			
Customer Name	GERBERS POULTRY INC		
Project Number	AEP-13-10495		
Customer Premise Address	5889 KIDRON RD, APPLE CREEK, OH 4	14606-9745	
Customer Mailing Address	PO BOX 206, Kidron, OH 44636		
Date Received	5/14/2013		
Project Installation Date	6/15/2012		
Annual kWh Reduction	131,642		
Total Project Cost	\$68,344.99		
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$6,059.40		
Simple Payback (yrs)	7.4		
Utility Cost Test (UCT)	8.8		
	Please Choose	One Option Below and Initia	
Option 1 - Self Direct EEC: 75%	\$4,544.55	Initial: MS	
Option 2 - EE/PDR Rider Exemption	2 Months (After PUCO Approval)	Initial:	
Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option 2: EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO.  If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects?  YESNO  Project Overview:  The Self Direct (Prescriptive) project that the above has completed and applied is as follows.  Replaced (200) 2F96T12HO 95w with (200) 8'6F32T8  Replaced (54) 400w MH with (54) 6F32T8  Replaced (20) 250w MH with (54) 6F32T8  Retrofitted (105) 4F34T12 into (105) 4F32T8  Retrofitted (10) 3F34T12 into (10) 3F32T8  Retrofitted (11) 2F34T12 into (11) 2F32T8			

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	GERBERS POULTRY INC	
By: Ja J. Will  Title: Manager	By: Manager	
Title	Title.	
Date:	Date: 4/13/13	

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## 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.

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## **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 I	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.

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## **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 ENERGY 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.

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## **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.

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## **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.

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## **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.

Select One   (Select One   (	Project Information		
Shift  Affected Area Square Footage  [Select One)  Building Operating Hours    Select One	Business Type	W-9 Tax Status	
Building Operating Hours  Equipment Operating Hours  Name of Applicant's Business  Project Name (if applicable)  Name as It Appears on Utility Bill  AEP Ohio Account Number Where Measure Installed  Taxpayer ID (SSN/FEIN)  Mailing Address  City  State  Contact Person  Title of Contact  Mailing Address  City  State  Contact Email  Solution Provider/Contractor Information¹  Name of Contact Person  Title of Contact  Mailing Address  City  State  Contact Email  Contact Email  State  City  State  Contact Email  Contact Email  Contact Email  Ext.  Contact Email  Contact Email	(Select One)	(Select One)	(Select One)
Building Operating Hours    Equipment Operating Hours	Shift	Affected Area Square Footage	Dodge Report Number
Name of Applicant's Business	(Select One)		
Project Name (if applicable) Name as It Appears on Utility Bill  AEP Ohio Account Number Where Measure Installed Taxpayer ID (SSN/FEIN)  Mailing Address City State OH Zip  Check if mailing address and installation address are the same.  Installation Address City State OH Zip  Customer Contact  Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)  Title of Contact Person Ext.  Solution Provider/Contractor Information  Name of Contact Person Title of Contact  Mailing Address City State OH Zip  Contact Email  Scout Contact Person Title of Contact  City State OH Zip  Contact Email	<b>Building Operating Hours</b>	<b>Equipment Operating Hours</b>	
AEP Ohio Account Number Where Measure Installed	Name of Applicant's Business		
Mailing Address	Project Name (if applicable)	Name as It Appears on U	Itility Bill
Check if mailing address and installation address are the same.  Installation Address City State OH Zip  Customer Contact  Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)	AEP Ohio Account Number Where Mea	sure Installed Taxpaye	er ID (SSN/FEIN)
CityState OH Zip  Customer Contact  Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)  Title of Contact	Mailing Address	City	State <sub>.</sub> OH Zip
Customer Contact  Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)  Title of Contact Phone #	☐ Check if mailing address and install	lation address are the same.	
Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)  Title of Contact Fax # Contact Email  Solution Provider/Contractor Information¹  Name of Contact Person Title of Contact  Mailing Address City State_OH _ Zip  Phone # Ext Contact Fax # Contact Email	Installation Address	City	State OH Zip
Please provide all contacts we may need to process this project. List the project decision-maker, the technical contact, etc. as the contractor contact.  Name of Contact (preferred contact for documentation)  Title of Contact Fax # Contact Email  Solution Provider/Contractor Information¹  Name of Contact Person Title of Contact  Mailing Address City State_OH _ Zip  Phone # Ext Contact Fax # Contact Email	Customer Contact		
Phone # Ext	Please provide all contacts we may nee contractor contact.	ed to process this project. List the project decisi	on-maker, the technical contact, etc. as the
Contact Fax # Contact Email	Name of Contact (preferred contact for	documentation)	
Solution Provider/Contractor Information¹  Name of Contracting Company  Name of Contact Person	Title of Contact	Phone #	Ext
Name of Contracting Company	Contact Fax #	Contact Email	
Name of Contact Person         Title of Contact           Mailing Address         City         State_OH Zip	Solution Provider/Contract	or Information¹	
Mailing Address	Name of Contracting Company		
Phone # Ext Contact Fax # Contact Email	Name of Contact Person	Title of Contact	
	Mailing Address	City	State_OHZip
If there are questions about the application who should we contact?   Customer   Contractor	Phone # Ext	Contact Fax # (	Contact Email
Solution provider/contractor is the party involved in the application submittal (i.e. specs scope of work etc.)			Contractor

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## **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

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## **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.

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## **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 <sup>1</sup>
	·····
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.

#### 1x8 Vapor Proof Power Strip



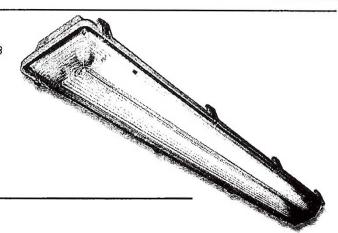
#### **Features**

High-performance vapor proof luminaire available in T8

Energy efficient alternative to HID systems

Instant-on, step-dimming ready

Available on-board occupancy sensor



#### **Technical Data**

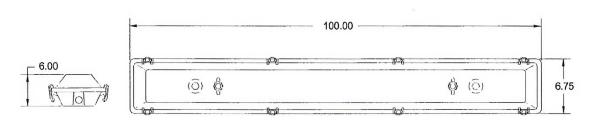
Housing: Fiberglass composite that will withstand extreme temperatures. Manufactured with sufficient knock-outs for wiring.

Lens: Impact resistant lens.

Reflector: Can be ordered with a 95% specular, a 85% specular, or a 92% diffuse white enamel. Substrate is 0.020" high quality aluminum. The reflector profile is optimized using computer analysis and manufactured using state of the art CNC equipment. A protective premask is applied to all reflective surfaces prior to manufacture.

Construction: The solid body provides exceptional rigidity. The reflectors are attached to the fixture body with a quarter-turn fastening system. No tools or additional fasteners are required for reflector installation / removal. The lens is secured to the fixture body with a compression fit.

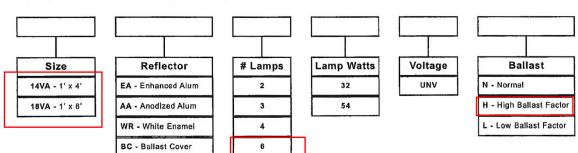
#### Installation



## **Ordering Information**

Part Number = Fixture Size + Reflector Material + # Lamps + Lamp Wattage + Voltage + Ballast Type + Options

(Example 18VAEA632277H = 1'x8' Vapor Power Strip with an enhanced aluminum reflector, 6-32W lamps, 277 volts, and a high power ballast)





Meets or Exceeds (1598 Standard

**Energy Solutions International** 

# APPROVED

www.sylvania.com

## **QUICKTRONIC® T8 Instant Start Universal Voltage**



## High Ballast Factor

## High Efficiency Series

#### Lamp / Ballast Guide

32W T8 - OCTRON® 1-lamp QHE1x32T8/UNV ISH-SC

- 2-lamp QHE2x32T8/UNV ISH-SC 3-lamp QHE3x32T8/UNV ISH-SC
- 4-lamp QHE4x32T8/UNV ISH

#### Also operates:

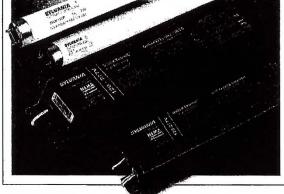
FB032, FB031, F030/SS (30W), FB030/SS (30W), FB029/SS (29W), F028/SS (28W) & F025/SS (25W)

### **Key System Features**

- · High Efficiency Systems over 90% efficient
- · NEMA Premium Ballast (NPB) Program compliant
- · Over 100 LPW (lumens/watt) with OCTRON SUPERSAVER® lamps
- · Lowest power T8 PLUS Systems
- Universal voltage (120-277V)
- 1.15-1.20 ballast factor · 30-50% Energy savings
- · Min. Starting Temp: · -20°F(-29°C) for T8 lamps
  - . 60°F (16°C) for Energy Saving T8 lamps
- < 10% THD
- · Virtually eliminates lamp flicker

SYLVANIA QUICKTRONIC High Efficiency (QHE) energy-saving electronic T8 ISH (PLUS) ballasts offer several advantages:

- 1. Same Light, Less Power!
- . Up to 6% in energy savings compared to standard T8 low power electronic ballasts without compromising light output
- · 30-60% energy savings when compared to F34T12 magnetically ballasted systems
- 2. High Light Output:
- · Higher lumens per fixture
- · Fewer fixtures required for same light output
- · Ideal for high bays
- 3. Parallel Circuitry: keeps remaining lamps lit if one or more go out.
- 4. NEMA Premium Ballast (NPB) program compliant. The NPB program promotes the use of high efficiency T8 electronic ballasts by meeting or exceeding the Ballast Efficiency Factors (BEF) estab-



lished by the CEE (Consortium for Energy Efficiency). For additional information on this program go to: www.cee1.org or www.nema.org

- 5. New Banded Packaging
- · Distributor-friendly for easy stocking and individual ballast sales
- · Reduced waste

- · Easy removable bands
- · No tangled wires

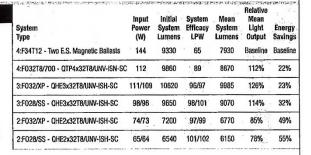
SYLVANIA QUICKTRONIC High Efficiency (QHE) is also covered by our QUICK 60+° warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

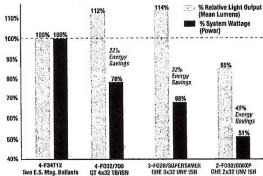
## **System Information**

SYLVANIA QUICKTRONIC High Efficiency (QHE) System advantages:

- Operate from 120V through 277V
  - · Eliminates "wrong voltage" errors
  - Reduces inventory by 50%
- . Utilizes Instant Start operation for Highest System Efficacy
  - · Low temperature starting capability
- Very low harmonic distortion (<10%)THD</li>
- . Operate at >42kHz to reduce potential interference with infrared control

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon



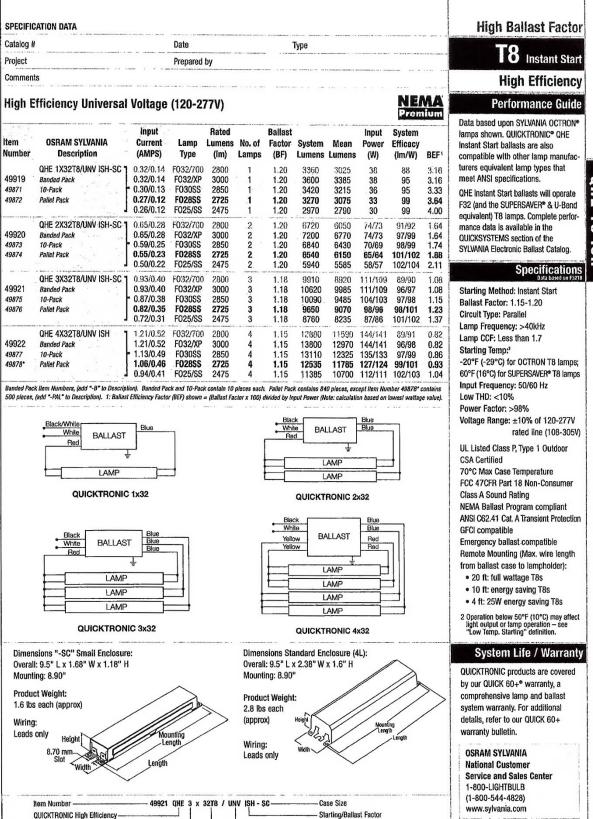




#### **Application Information**

SYLVANIA QUICKTRONIC High Efficiency is ideally suited for:

- · Any applications where the highest light output for the lowest amount of power T8 systems are needed for maximum energy savings
- · High bay lighting
- · Energy Retrofits
- Commercial & Retail
- · Hospitality & Institutional
- New Construction



Number of Lamps

Specifications subject to change without notice.

-Line Voltage (120-277V)

Primary Lamp Wattage

# **APPROVED**

www.sylvania.com

# OCTRON® 800 XP® ECOLOGIC®3

EXtended Performance Fluorescent Lamps



SYLVANIA OCTRON 800 XP ECOLOGIC fluorescent lamps provide up to 42% longer life, higher initial and maintained lumens, improved color rendition and longer re-lamp periods compared to 700 Series T8 lamps.

For maximum energy savings, operate OCTRON 800 XP ECOLOGIC lamps on QUICKTRONIC high efficiency instant start ballasts. For longer life and optimal performance on occupancy sensors, pair with QUICKTRONIC PROStart® programmed rapid start ballasts.

#### **Key Features & Benefits**

- Superior performance lamps for existing 800 series T8 instant start systems
  - Higher Initial and mean lumens
  - 40,000 hours average life @ 12 hrs/start
  - Improved CRI 85
- Extend relamp cycles
- Reduce lighting maintenance costs
- Longer life on programmed rapid start ballasts
- 42,000 hours average life @ 12 hrs/start

- 94% mean lumens
- QUICK 60+® System Warranty when paired with QUICKTRONIC electronic ballasts
- · Lead free glass
- · Made in the USA
- · TCLP and RoHS compliant

## **Product Offering**

Lamp Type		Watts	Nominal Length (in.)	CCT
F017/800/XP/EC03	74.7	17	24	2700K, 3000K, 3500K, 4100K, 5000K, 6500K
F025/800/XP/EC03	9.74	25	36	3000K, 3500K, 4100K 5000K, 6500K
F032/800/XP/EC03	7. ××	32	48	2700K, 3000K, 3500K, 4100K, 5000K, 6500K
F040/800/XP/EC03		40	60	3000K, 3500K, 4100K, 6500K
F048/835/XP/ECO	-	28	48	3500K
F072/835/XP/ECO		44	72	3500K
F096/800/XP/EC03		59	96	3000K, 3500K, 4100K, 5000K

#### **Application Information**

#### **Applications**

- Healthcare
- Industrial
- Office
- Retail
- Schools

#### **Application Notes**

- 1. Lamps starting down to 0°F (dependent on ballast)
- 2. Operation below 50°F may affect lumen output or lamp operation.
- For cold temperature applications, use in enclosed fixture or use tube guard to maximize lamp performance.
- For rapid start operation, check with ballast manufacturer for ground plane requirement.
- For maximum energy savings, operate on high efficiency electronic instant start ballast.
- 6. These lamps may help facilitate compliance with national energy codes such as ASHRAE/IES 90.1 or IECC and state energy codes such as California Title 24. For more information contact your local building inspection office.

SYLVANIA OCTRON 800 XP ECOLOGIC3 fluorescent lamps are designed to satisfy the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.\*

ECOLOGIC3 represents a more comprehensive approach to sustainability encompassing high efficiency, long life and RoHS/TCLP compliance.

\*Regulations may vary. Check your local and state regulations.









Fixture Description:		Specifica	Specification Data					
	N 10		Туре	- 3				
Project/Job:					1			
SYLVANIA lamp;					Bi .			
SYLVANIA ballast:	-	- '	-					
Notes:			-					

## **Ordering Information**

. 1		a a Sec	Nominal		151	1 000	Average Rated Life					
Item Number	Ordering Abbreviation	Watts	Length (in)	Initial - Lumens	Mean Lumens <sup>1</sup>	Lumens per Watt	Instai 3 hrs/start	nt Start		d Rapid Start 12 hrs/start	CCT	CRI
OCTRON	800 XP® ECOLOGIC®								Fact to 1			
21587	F017/827/XP/EC03	17	24	1375	1290	- 81	24,000	40,000	40,000	42,000	- 2700K	85
21785	F017/830/XP/EC03	17	24	1375	1290	. 81	24,000	40,000	40,000	42,000	3000K	: 85
21778	F017/835/XP/EC03	17	24	1375	1290	81	24,000	40,000	40,000	42,000	3500K	85
21907	F017/841/XP/EC03	17	24	1375	1290	81 -	24,000	40,000	40,000	42,000	4100K	- 85
22193	F017/850/XP/EC03	17	24	1375	1290	81	24,000	40,000	40,000	42,000	5000K	- 85
21718	F017/865/XP/EC03	. 17	24	1250	1175	74	24,000	40,000	40,000	42,000 -	6500K	85
21910	F025/830/XP/ECQ3	25	36	2175	2045	. 87	24,000	40,000	40,000	42,000	3000K	85
21776	F025/835/XP/EC03	25	36	2175	2045	87	24,000	40,000	40,000	42,000	3500K	. 85
21774	F025/841/XP/EC03	25	36	2175	2045	87	24,000	40,000	40,000	42,000	4100K	- 85
22194	FQ25/850/XP/EC03	25	36	2175	2045	87	24,000	40,000	40,000	42,000	5000K	85
21719	F025/865/XP/EC03	25	36	2175	2045	- 87	24,000	40,000	40,000	42,000	- 6500K	85
22039	F032/827/XP/EC03	32	48	3000	2820	94	24,000	40,000	40,000	42,000	2700K	85
21759	F032/830/XP/EC03	32	48	3000	2820	94	24,000	40,000	40,000	42,000	3000K	85
21763	F032/835/XP/EC03	32	. 48	3000	2820	94	24,000	40,000	40,000	42,000	3500K	85
21767	F032/841/XP/EC03	. 32	. 48	3000	2820	94	24,000	40,000	40,000	42,000	4100K	85
22026	F032/850/XP/EC03	32	48	3000	2820	94	24,000	40,000	40,000	42,000	5000K	85
21720	F032/865/XP/EC03	32	48	3000	2820	. 94	24,000	40,000	40,000	42,000	6500K-	85
21912	F040/830/XP/EC03	40	60	3750	3525	94	24,000	40,000	40,000	42,000	3000K	85
21911	FO40/835/XP/ECO3	40	60	3750	3525	94	24,000	40,000	40,000	42,000	3500K	85
21916	FQ40/841/XP/ECO3	40	60	3750	3525	94	24,000	40,000	40,000	42,000	4100K	85
21721	F040/865/XP/EC03	40	60	3750	3525	94	24,000	40,000	40,000	42,000	6500K	. 85
21599	F048/835/XP/ECO	:28	48	2850	2680	102	24,000	36,000	77 - 1		3500K	85
21598	F072/835/XP/ECO	44 -	72	4650	4370	106	24,000	36,000			3500K	85
22036	F096/830/XP/EC03	59	. 96	6100	5730	103	24,000	36,000	=-		3000K	85
22034	F096/835/XP/EC03	59	96	6100	5730	103	24,000	36,000			3500K	85
22032	F096/841/XP/EC03	59	96	6100	5730	103	24,000	36,000			4100K	85
22174	F096/850/XP/EC03	59	- 96	6100	5730	97	24,000	36,000			5000K	85

<sup>1.</sup> Measured at 40% of rated life.

Qualifies for both new fixture and retrofit

## Ordering Guide

FO	32 /	8	35	XP	1	ECO3
Fluorescent	Wattage:	8=85 CRI	27=2700K, 30=3000K	E <u>X</u> tended	Y 3	ECOLOGIC3
OCTRON	17, 25, 28, 32,		35=3500K, 41=4100K	<u>Performance</u>		
	40, 44 or 59 watts		50=5000K, 65=6500K	* *		28 00 00

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in

Case No(s). 13-1395-EL-EEC

Summary: Application In the Matter of Gerbers Poultry Inc. 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