

Legal Department

December 28, 2010

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

Re: **In the Matter of The Kroger Co** )  
**and Columbus Southern Power** )  
**Company for Approval of a** ) **Case No. 10-1802-EL-EEC**  
**Special Arrangement Agreement** )  
**with a Mercantile Customer** )

**Matthew J. Satterwhite**  
Senior Counsel –  
Regulatory Services  
(614) 716-1915 (P)  
(614) 716-2014 (F)  
mjsatterwhite@aep.com

Dear Chairman Schriber,

Attached please find the Joint Application of Columbus Southern Power (CSP) and mercantile customer The Kroger Co for approval of a Special Arrangement of the commitment of energy efficiency/peak demand reduction (EE/PDR) resources toward compliance with the statutory benchmarks.

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 CSP's version of that application and accompanying affidavit. Any confidential information referenced in the Joint Application has been filed in Commission Docket 10-1799-EL-EEC, under a request for protective treatment. CSP respectfully requests that the Commission treat the two cases as associated dockets.

Cordially,

/s/ Matthew J. Satterwhite  
Matthew J. Satterwhite, Senior Counsel

Attachments



**Case No.: 10-1802-EL-EEC**

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 implemented during the prior three calendar years.

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the 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 electric utilities' energy efficiency rider option (Option 2) will not qualify for the 60-day automatic approval.

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.

If you consider some of the items requested in the application to be confidential or trade secret information, please file a copy of the application under seal, along with a motion for protective order pertaining to the material you believe to be confidential. Please also file a copy of the application in the public docket, with the information you believe to be confidential redacted.

## Section 1: Company Information

Name: THE KROGER CO

Principal address: 1014 Vine Street, Cincinnati, Oh 45202

Address of facility for which this energy efficiency program applies: 4485 Refugee Rd, Columbus, Oh 43232-4400

Name and telephone number for responses to questions:

Tracy McDonald, The Kroger Co, (513) 762-157

Electricity use by our company (at least one must apply to your company – check the box or boxes that apply):

- ☒ We use 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.

- ☐ We are 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) We are filing this application (choose which applies):

- ☐ Individually, on our own.
- ☒ Jointly with our electric utility.

B) Our electric utility is: Columbus Southern Power Company

The application to participate in the electric utility energy efficiency program is  
"Confidential and Proprietary Attachment 3 – Self Direct Program Project  
Completed Application."

C) We are offering to commit (choose which applies):

- ☐ Energy savings from our energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- ☐ Demand reduction from our demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- ☒ Both the energy savings and the demand reduction from our energy efficiency program. (Complete all sections of the Application.)

### Section 3: Energy Efficiency Programs

A) Our energy efficiency program involves (choose whichever applies):

- ☐ Early replacement of fully functioning equipment with new equipment. (Provide the date on which you replaced your fully functioning equipment, and the date on which you would have replaced your equipment if you had not replaced it early. Please include a brief explanation for how you 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. We installed our new equipment on the following date(s): 12/20/2007
- ☐ Installation of new equipment for new construction or facility expansion. We installed our new equipment on the following date(s):

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

- a) 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

- b) 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: 43,402 kWh

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation for annual energy savings calculations and Attachment 6 – Supporting Documentation for custom measures work papers that provide all methodologies, protocols, and practices used in this application for custom measures, as needed.

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

See Attachment 6 – Supporting Documentation for the work papers that provide all methodologies, protocols, and practices used in this application for custom measures, as needed.

- c) 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.

## Section 4: Demand Reduction/Demand Response Programs

A) Our program involves (choose which applies):

- ☒ Coincident peak-demand savings from our energy efficiency program.
- ☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- ☐ Potential peak-demand reduction (choose which applies):

➤ Choose one or more of the following that applies:

- ☐ Our 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.
- ☐ Our 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) What is the date your peak demand reduction program was initiated?

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) 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)

KW Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))

5.2 kW

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation for peak demand reduction calculation, and Attachment 6 – Supporting Documentation for custom measures for the work papers that provide all methodologies, protocols, and practices used in this application for custom 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) We are applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

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

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, based on avoided generation cost, of \$\_\_\_\_\_. (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 \$ 2,889.95. (Attach documentation and calculations showing how this payment amount was determined.)

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation 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

- ☐ 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: 5.5 (Skip to Subsection 2.)

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

The TRC value of the program is calculated by dividing the value of our avoided supply costs (capacity and energy) by the sum of our program costs and our electric utility's administrative costs to implement the program.

Our avoided supply costs were \_\_\_\_\_.

Our program costs were \_\_\_\_\_.

The utility's administrative costs were \_\_\_\_\_.

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

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

Our avoided supply costs were \$ 17,381.65

The utility's administrative costs were \$ 260.41

The utility's incentive costs/rebate costs were \$ 2,889.95.

## 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 Attachment 1 - Self Direct Project Overview and Commitment for a description of the project. See Attachment 6 - Supporting Documentation, for the specifications of the replacement equipment work papers that provide all methodologies, protocols, and practices used in this application for custom 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 Attachment 2 - Self Direct Program Project Blank Application including Rules and Requirements. All confidentiality requirements 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.)

- 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 you 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 you 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 Attachment 2 - Self Direct Program Blank Application 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 Confidential and Proprietary Attachment 3 - Self Direct Program Project Completed Application.

- 5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

See Attachment 1 - Self Direct Project Overview and Commitment 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 custom project and energy savings are determined as described in Confidential and Proprietary Attachment 5 - Self Direct Program Project Calculation, Attachment 6 - Supporting Documentation for custom measures work papers that provide all methodologies, protocols, and practices used in this application for custom measures, as needed.



# Public Utilities Commission

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

Case No.: 10-1802-EL-EEC

State of OHIO :

Ryan J. Callins, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:  
  
KEMA Services, Inc agent of Columbus Southern Power
2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

Ryan Callins ENERGY EFFICIENCY ENGINEER  
Signature of Affiant & Title

Sworn and subscribed before me this 24<sup>TH</sup> day of NOVEMBER, 2010 Month/Year

Angie Doan  
Signature of official administering oath

Angie Doan, Outreach Manager  
Print Name and Title

My commission expires on 01-03-11



ANGIE DOAN  
Notary Public, State of Ohio  
My Commission Expires 01-03-11



### 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	THE KROGER CO		
Project Number	AEP-09-00770		
Customer Premise Address	4485 REFUGEE RD, COLUMBUS, OH 43232-4400		
Customer Mailing Address	1014 Vine Street, Cincinnati, OH 45202		
Date Received	12/3/2009		
Project Installation Date	12/20/2007		
Annual kWh Reduction	43,402		
Total Project Cost	\$7,706.54		
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$3,853.27		
Simple Payback (yrs)	2.4		
Utility Cost Test (UCT)	5.5		
Please Choose One Option Below and Initial			
Option 1 - Self Direct EEC: 75%	\$2,889.95	<input checked="" type="checkbox"/>	Initial: <i>DFZ</i>
Option 2 - EE/PDR Rider Exemption	4 Months (After PUCO Approval)	<input type="checkbox"/>	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? ☒ YES ☐ NO

#### Project Overview:

The Self Direct (Custom) project that the above has completed and applied is as follows.  
Replacing (47) 1/3 HP shaded pole motors with (47) 142 Frame 1/3HP ECM's

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.

Columbus Southern Power Company

By: *John J. Williams*  
Title: Manager  
Date: 10/28/10

THE KROGER CO

By: *DFZ*  
Title: Energy Manager  
Date: 10/27/10



## Self-Direct Program Project Application

### Application Instructions

- Complete the application form for each installation account number.
- Complete the Self-Direct Program spreadsheet, which is in Excel format, fully describing each measure replaced and installed along with project costs, existing and new equipment inventories/operation descriptions, baseline and new usage measurements or detailed calculations, total energy and demand savings, and other specified information. It shall be the customer's responsibility to provide all necessary documentation, calculations, and energy impact and summer peak demand saving verification in order to justify the project for incentives.
- Complete the Self-Direct Program project description and include all required documentation including detailed customer-approved invoices, proof of purchase, receipts, technical specifications, studies/proposals, etc.
- NOTE: Sending inadequate invoice documentation, incomplete/incorrect forms, or backup information, including detailed energy and summer peak demand calculations, will delay review of the application. Contact AEP Ohio if you require additional assistance in completing the application.
- Submit all information to AEP Ohio. All completed submissions become the property of AEP Ohio. Make a copy of all documents for your records.

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

**Mail:** AEP Ohio  
6031 East Main Street, Suite 190  
Columbus, OH 43213  
**Fax:** 877-607-0740  
**Email:** [gridsmartohio@kema.com](mailto:gridsmartohio@kema.com)  
**Questions:** Call 877-607-0739

Visit **[gridsmartohio.com](http://gridsmartohio.com)** for more information on the Self-Direct Program and other energy efficiency incentive programs offered by AEP Ohio.



## Self-Direct Program Project Application

Project ID provided by AEP Ohio  
**PROJECT ID:** \_\_\_\_\_

THIS INCENTIVE APPLICATION FORM IS VALID THROUGH DECEMBER 31, 2009.

☐ Pre-approval Application

☐ Final Application

### SECTION 1: SELF-DIRECT CUSTOMER INFORMATION

Company Name		Contract Date of Acceptance	
Mailing Address			
City	State	Zip Code	
Contact Name (print)	Phone	Fax	
Contact E-mail*			
Building Type: <input type="checkbox"/> Office <input type="checkbox"/> School/College <input type="checkbox"/> Retail/Service <input type="checkbox"/> Restaurant <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> Medical <input type="checkbox"/> Grocery <input type="checkbox"/> Warehouse <input type="checkbox"/> Light industry <input type="checkbox"/> Heavy Industry <input type="checkbox"/> Government/Municipal <input type="checkbox"/> Other _____			

By signing here, I acknowledge the information on this application is accurate and complete. I confirm I have read, agree with and understand the Rules and Requirements of this application and I have the authority to execute on behalf of my company / corporation.

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

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

### SECTION 2: COMPLETION AND PAYMENT INFORMATION

Attention to	Total Incentive Amount Requested \$	
Taxpayer ID # of Recipient (if not a Corporation or Tax Exempt)	Total Project Cost \$	Total Incremental Cost \$
<input type="checkbox"/> Corporation (Inc, LLC, PC, etc.) <input type="checkbox"/> Tax Exempt <input type="checkbox"/> Other (Individual, Partnership – may receive 1099)	Total Annual kWh Claimed	kW Demand Reduction Claimed

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

Job Site Name		Project Contact Name	
Job Site Address (physical location)		Project Contact Telephone	
City	State	Zip Code	Project Contact Email
Job Site AEP Ohio Account Number (primary account)		Job Site Premise Number	

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

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

### SECTION 5: CUSTOMER ELECTION (CHOOSE ONE OPTION AND COMPLETE ASSOCIATED INFORMATION)

Option #1	<input type="checkbox"/> Incentive Payment	Incentive Calculation: \$ _____
Option #2	<input type="checkbox"/> Exemption From EE/PDR Rider	# of Months Exempted: _____ months (calculation provided by AEP Ohio)

## Self-Direct Program Retrospective Projects / Rules and Requirements

Columbus Southern Power Company and Ohio Power Company are collectively known as AEP Ohio ("AEP Ohio"). AEP Ohio provides energy-efficiency incentives for the purchase and installation of qualifying cost-effective equipment in the customer's facility (the customer's "Commitment of Resources") under the Rules and Requirements provided in this incentive application and subject to regulatory approvals.

### Customer Qualifications

The Self-Direct Program (the "Program") applies to customers served at AEP Ohio's retail electric rates who meet the minimum energy usage requirements of 700,000 kWh per year or who are part of a national account involving multiple facilities in one or more states. This application defines the Date of Acceptance.

### Terms and Conditions

- THIS INCENTIVE APPLICATION FORM IS VALID FOR SUBMITTAL BY SELF-DIRECT CUSTOMERS UNTIL DECEMBER 31, 2009. AEP Ohio incentive programs may be changed or cancelled at any time without notice. The Customer and its contractor are solely responsible for contacting AEP Ohio to ask whether or not the program is still in effect and to verify program parameters.
- Customer agrees to commit all energy and demand resources identified in this application to AEP Ohio's energy and demand target / benchmarks as identified in Senate Bill 221.
- Incentive payments are available while program funding lasts.
- To ensure maximum program participation, AEP Ohio reserves the right to limit funding on a per project basis.
- Pre-approval by AEP Ohio is required.
- Incentive items must be installed on the AEP Ohio electric account listed on the application.
- The incentive payment shall be:
  - 75% of the calculated incentive under the Business Lighting or Custom Program, whichever is applicable to this project.
- In lieu of a one-time incentive payment, the customer 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 on this Application. For this exemption, and as defined in the table below, the incentive payment amount is compared to the estimated net present value (NPV) of the customer's estimated EE/PDR rider obligation, as calculated by AEP Ohio. If exemption is elected, the customer is not eligible for other programs offered by AEP Ohio during the period of exemption. Unless additional resources are committed, the customer will, after the specified number of months on this Application, be subject to the EE/PDR Rider.
- If an incentive is elected, the customer remains in the EE/PDR rider for the period of time that an exemption would have been in effect and may also participate in other AEP Ohio programs.
- All equipment must be new; used or rebuilt equipment is not eligible for an incentive.
- Eligible measures must produce verifiable and persistent energy and/or demand reduction, for a period of no less than five (5) years from the date of installation, through an increase in efficiency or through the use of load-shifting technologies. Measurement and verification may be required.
- Ineligible measures:
  - Rely solely on changes in customer behavior and require no capital investment, or merely terminate existing processes, facilities and/or operations.
  - Are required by state or federal law, building or other codes, or are standard industry practices.
  - Involve fuel switching, plug loads, or generate electricity.
  - Are easily reverted / removed or are installed entirely for reasons other than improving energy efficiency.
  - Include other conditions to be determined by AEP Ohio.
- Projects submitted for retrospective claims must be installed and operating between January 1, 2006 and the Date of Acceptance into the Self-Direct Program. Incentive levels, as shown in the table below, are based on the calendar year of installation / operation. Customer shall provide proof of equipment installation / operation start-up.
- All applications are subject to AEP Ohio, its contractor(s) / agent(s), and the Public Utility Commission of Ohio (PUCO) review and approval prior to any incentives paid or exemption from the EE/PDR Rider under this program.

- Customer is allowed and encouraged to consider using all or a portion of the incentive payment, as received from AEP Ohio under this program, to help fund other customer-initiated energy efficiency and demand reduction projects in the future. Future projects can also qualify for incentives under the Business Lighting or Custom program.
- A signed final application with documentation verifying installation of the project including, but not limited to, equipment, invoices, approvals, and other related information must be submitted to AEP Ohio prior to application approval.
- The summer peak period is defined as weekday peak-demand hours (7:00 AM to 9:00 PM, May through September).
- 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.
- AEP Ohio reserves the right to randomly inspect customer facility(ies) for installation of materials listed on this incentive application and will need access to survey the installed project. Customer understands and agrees that Program installations may also be subject to inspections by the PUCO or their designee, and photographs of installation may be required. All documentation and verification is subject to strict confidentiality.
- If the inspection finds that customer did not comply with program rules and requirements, any incentive received under this Program must be returned to AEP Ohio including interest. Exemption from the rider will be voided as well. In addition, AEP Ohio reserves the right to withhold payment or exemption for projects that do not meet reasonable industry standards as determined by AEP Ohio.
- AEP Ohio reserves the right to refuse payment and participation if the customer or contractor violates program rules and procedures. AEP Ohio is not liable for incentives promised to customers as a result of program misrepresentation.
- The customer understands and agrees that all other terms and conditions, as specified in the application, including all attachments and exhibits attached to this application, which will serve as a contract for the customer's commitment of energy and demand resources to AEP Ohio, shall apply.
- AEP Ohio reserves the right to request additional backup information, supporting detail, calculations, manufacturer specification sheets or any other information prior to any incentive payment.
- Equipment could have been installed in retrofit, replacement, or new construction applications and must meet reasonable industry standards. All equipment / measures must meet minimum cost effectiveness requirements as defined or determined by AEP Ohio. Customer must also provide evidence of measure life.
- AEP Ohio will issue any approved incentives in the form of checks.
- Customer can not apply for incentives for future projects and elect after the fact to apply for exemption under this program.
- All documentation and verification is subject to strict confidentiality.
- All completed submissions become the property of AEP Ohio.

### Disclaimers

#### AEP Ohio:

- Does not endorse any particular manufacturer, product or system design by offering these incentives.
- Will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives. AEP Ohio will report incentives greater than \$45 income on IRS form 1099. Such incentives shall be taxable unless Customer 600 meets acceptable tax exemption criteria. Customers are encouraged to consult with their tax advisors about the taxability of any incentive payments.
- Does not expressly or implicitly warrant the performance of installed equipment (contact your contractor for detailed equipment warranties).
- Is not responsible for the proper disposal/recycling of any waste generated as a result of this project.
- Is not liable for any damage caused by the operation or malfunction of the installed equipment.
- Does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program.

OPTION #1 - ONE-TIME INCENTIVE PAYMENT	
Incentive Levels (for retrospective projects completed since January 1, 2006)	75% of the calculated incentive payment under the current Business Lighting or Custom Programs, whichever is applicable.
Min / Max payback w/o incentive applied	1 year Min / 7 Year Max

OPTION #2 - EXEMPTION FROM EE / PDR RIDER
Exemption from the EE/PDR rider is determined by comparing the value of the one-time incentive payment with the estimated net present value (NPV) of the EE/PDR rider payments, as calculated by AEP Ohio, for the customer's associated electric account. This NPV is defined as the customer's financial contribution to AEP Ohio's efforts to reach EE/PDR targets. Exemption term will be rounded to the nearest month.

## Self-Direct Program

### Retrospective Project Description: Project \_\_\_\_\_ of \_\_\_\_\_

Project Descriptive Name	Project In-service Date
Affected Electric Account Number(s)	

Claimed Project Baseline (AEP Ohio will make the final determination of applicable baseline):

- ☐ Retrofit (the project was an elective retrofit and the equipment was still operable)
- ☐ Replacement (the project was a replacement of equipment at or near the end of its useful life)
- ☐ New (the project was an addition of new equipment in an existing facility or new construction)

Describe the project including detail of energy savings equipment. Attach additional sheets if needed.

---

---

---

Describe the removed equipment and operating strategy. Attach additional sheets if needed.

---

---

---

Describe the installed equipment and operating strategy. Attach additional sheets if needed.

---

---

---

Describe your calculation method for energy savings. Attach additional sheets if needed.

---

---

---

In addition to electrical energy and/or demand reduction, other benefits of proposed project include:

- |   |  |
|---|--|
| <input type="checkbox"/> Conserves other utilities (gas, water, etc.) | <input type="checkbox"/> Meets environmental regulations |
| <input type="checkbox"/> Improves process flow                        | <input type="checkbox"/> Reduces labor                   |
| <input type="checkbox"/> Improves product quality                     | <input type="checkbox"/> Saves energy                    |
| <input type="checkbox"/> Increases production capacity                | <input type="checkbox"/> Uses fewer raw materials        |
| <input type="checkbox"/> Other _____                                  |  |

## Project Technical Specifications

(This sheet provides an example of required data collection. The Self-Direct spreadsheet provides additional guidance and streamlines the process for collecting, documenting and reporting this information to AEP Ohio, and it follows the format of this sheet. Please provide as much detail as possible on the Self-Direct spreadsheet to expedite review and processing of the requested incentive).

Please complete the Self-Direct spreadsheet for each measure installed and provide supporting documentation including engineering or equipment supplier studies, customer-approved invoices, purchase orders, detailed calculations of baseline and energy and peak summer demand savings. A detailed proposal and complete package will expedite review of application. This information is required by AEP Ohio and/or its consultants for project analysis.

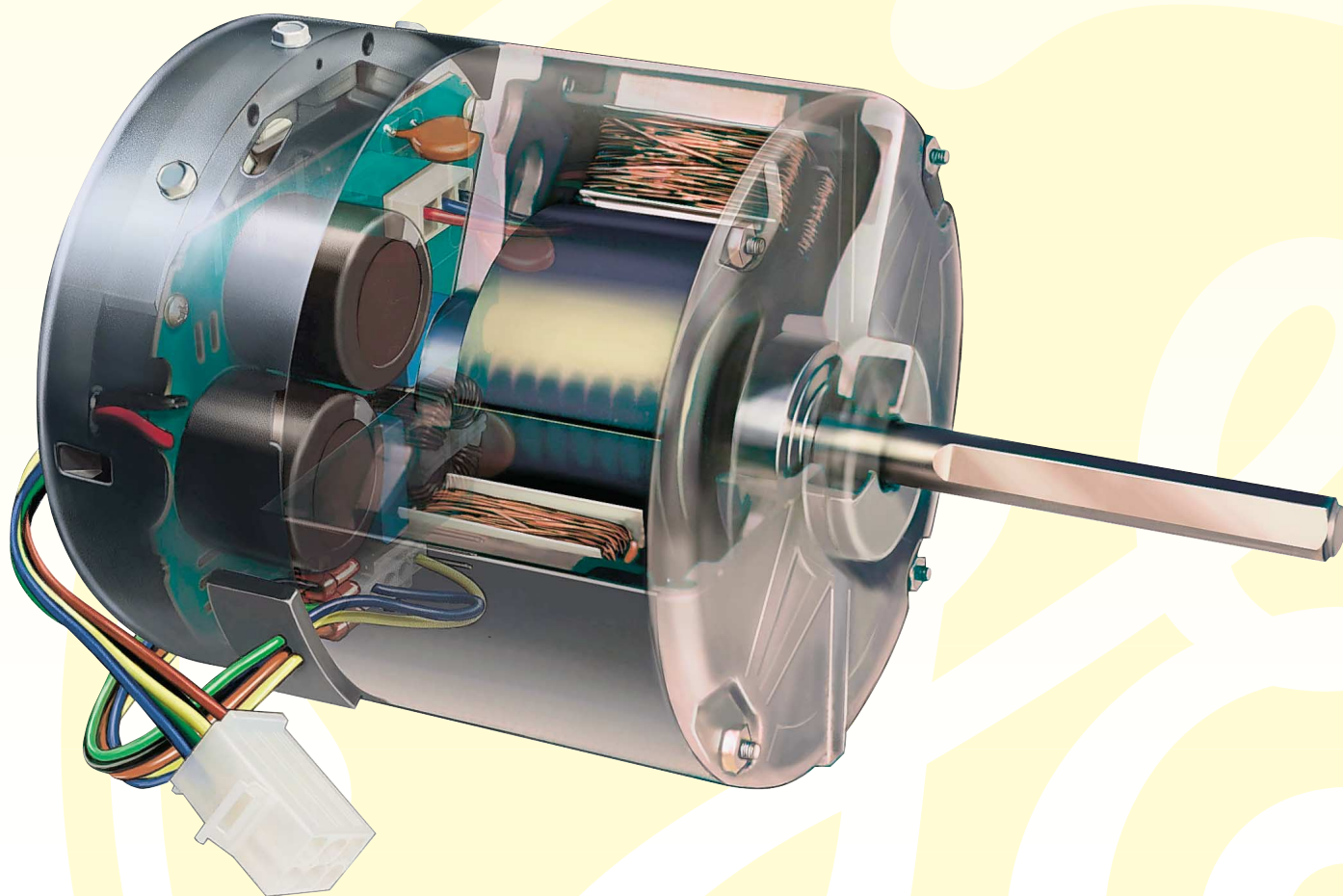
	EQUIPMENT REMOVED OR LOWER EFFICIENCY OPTION	INSTALLED EQUIPMENT OR HIGHER EFFICIENCY OPTION
Equipment type		
Manufacturer of equipment		
Model number(s)		
Date of Removal / In-Service Date		
Age of equipment at removal		
Estimated remaining useful life at time of removal or installation		
Efficiency rating		
Nameplate data: kW, tons, HP, watts, etc.		
Quantity		
Annual operating hours		
Annual energy savings (kWh)		
Summer peak reduction (kW)*		
Annual electric bill savings (\$)		
<b>COST BREAKOUT</b>		
Equipment		
Engineering		
Installation		
Other (explain)		
<b>TOTAL PROJECT COST</b>		
Incremental Cost = Installed Option Total Cost – Removed Equipment or Lower Efficiency Option Total Cost		
<p>* Determination of peak demand reduction (kW) from non-HVAC equipment: For non-HVAC measures, calculate the average kW reduction over the period from 7 a.m. to 9 p.m., weekdays, from May 1 through September 30. The preferred calculation method will estimate hourly kW demands over the peak demand period, and average the results. However, if measures do not vary significantly during those hours, a less rigorous estimation process may be applied if approved in advance by the program.</p>		
<p>* Determination of peak demand reduction (kW) within HVAC systems: Calculate the maximum HVAC peak demand reduction that occurs between 7 a.m. to 9 p.m. on a weekday from May 1 through September 30.</p>		



***GE Industrial Systems***

# Introducing the **GE ECM™ 142** Series Motors

ECM efficiency, performance and field-proven reliability for less cost.



# The GE 142 Series motors offer ECM performance and great economy.

For air-moving applications that don't require the full features of the ECM 2.3 motor, now there's the ECM 142 Series—the first to offer ECM efficiency, performance and field-proven reliability for less cost.

## The ECM 142 Series niche

For more than 10 years, the original ECM 2.3 blower motor has offered manufacturers the ability to deliver constant airflow in forced-air systems. Furthermore, it has always provided dozens of programming options for those systems in ratings ranging from 1/3 to 1 horsepower. Over time, GE has identified a number of air-moving applications that

require the same high efficiency, and precise speed and torque control of the ECM 2.3 but without its full matrix of programming and control options. For those applications, the company has created a lower-cost alternative to the ECM 2.3—the ECM 142 Series.

### ECM 2.3 VS. ECM 142

Construction	ECM 2.3 Series	ECM 142 Series
<ul style="list-style-type: none"> <li>• ratings</li> <li>• mechanicals</li> <li>• input voltage</li> <li>• speed</li> <li>• location</li> </ul>	1/3, 1/2, 3/4, 1hp  single or double shaft integral or remote control  120/240 volt or 277 volt  0-1,500 rpm  indoor	1/3 hp  single or double shaft integral or remote control  120 volt or 240 volt  0-1,500 rpm  indoor or outdoor
Modes of Operation		
<ul style="list-style-type: none"> <li>• variable speed</li> <li>• thermostat</li> </ul>	via pwm control  30 memory settings via 24 volt control	via pwm control  15 memory settings via 24 volt or 120/240 volt control
Options		
<ul style="list-style-type: none"> <li>• delay profiles</li> <li>• output signal</li> <li>• slew (ramp) rate</li> <li>• soft start</li> </ul>	yes  yes  yes, programmable  yes	no  no  yes, fixed rate  yes

Note: for complete product design specifications, go to [www.GEindustrial.com](http://www.GEindustrial.com) enter keyword: ECM

### **Create better products with the ECM 142.**

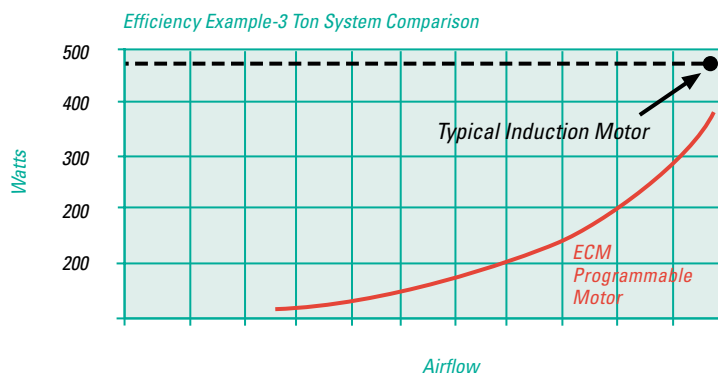
With features unavailable with conventional induction motors, the ECM technology gives product designers and engineers an extremely versatile tool for improving HVAC-system performance and differentiating products in indoor or outdoor applications. Here are some examples of the system benefits made possible by the ECM 142 motor: precise speed and torque control, lower set-up and inventory costs, and quieter, more economical operation.

### **Programmable Controls.**

Just one motor can optimize your system performance and minimize your inventory. Programming options for the ECM 142 include: rotation direction, speed and torque, and many other functions—all conveniently programmed into the motor by GE at the factory. As a result, programmability means lower inventory because one motor can serve many applications.

### **Ultra-high efficiency.**

At full load the ECM 142 is 20% more efficient than a standard induction motor. In addition, its permanent-magnet, DC design allows it to maintain its efficiency over its wide speed range.



### **Resilient electronics.**

Line transients from lightning strikes or corrupt utility power can cause damage or a temporary interruption of power to any electrical appliance. The ECM 142 Series comes standard with robust electronics that allow the motor to operate trouble-free in the event of power irregularities without external protection. In addition, short power-line interruptions or under-voltage conditions do not affect the operation of the ECM 142.

### **Wide range of applications.**

The ECM motor has given product designers and engineers a tool for greatly expanding the capability of air-moving appliances. Here are a number of possible applications: outdoor condenser fans; single-stage, two-stage and variable-capacity furnaces ; air handlers; energy-recovery ventilators; powered filter units; unit ventilators; geothermal heat-pump systems; and commercial fan-powered terminal units.

### **Moisture-resistant design.**

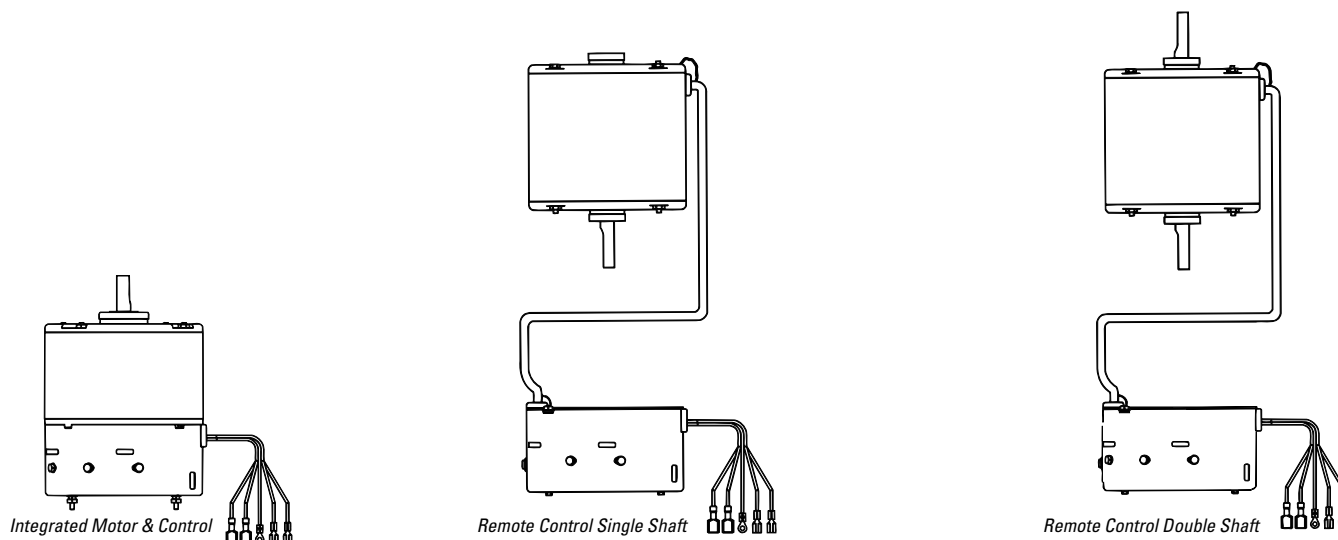
The ECM 142 addresses the most common problem today in HVAC systems—moisture. GE encapsulates the motor's sensitive controls to prevent water from reaching its electronic components. In fact, the ECM 142 stands up to more than 600 hours of ASTM-B117 salt-spray testing.

### **Easy installation and service.**

The ECM 142 is designed to be easy to install, troubleshoot and service. There is no need to go to the motor for set up. In fact, there are no dip switches or adjustment terminals on the ECM 142. The system manufacturer can locate all connections required for set up in any convenient location. When it comes to service, the 142 is designed so its electronic controller can be replaced without removing the motor from the blower mounting, which greatly reduces service time and cost.

## **A model for every job.**

The ECM 142 Series is available in three configurations:



Rated Output Power Level @ < 45°c		Rated Output Torque @ 1050 RPM		Maximum Input Current Rating @ Nominal Input Voltage	
1/3 hp	385 watts	28 oz-ft	2.37 n-m	5.0 amps @120vac	2.8 amps @240vac

### **Agencies**

UL: File # E100625 (motor & control)  
Pending CSA: File LR68565 (motor)  
Pending CSA: File LR68566 (control)  
CE: Certificate of Conformity #156  
(for further details, go to  
[www.GEindustrial.com](http://www.GEindustrial.com)  
enter keyword: ECM

### **EMI Limits**

Unit meets FCC Part 15, class B, for  
conducted EMI. Radiated EMI is influenced  
by cabinets, grounding, etc., at installation.

### **Calibrated Torque**

100% dynamometer calibration of each unit  
with calibration stored in memory.



# **GE Industrial Systems**

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**12/28/2010 10:44:22 AM**

**in**

**Case No(s). 10-1802-EL-EEC**

Summary: Application of The Kroger Co and Columbus Southern Power Company for approval of a special arrangement agreement with a mercantile customer electronically filed by Mr. Matthew J Satterwhite on behalf of Columbus Southern Power Company