

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

Case No.: 13-0160-EL-EEC

Mercantile Customer: Toledo Public Schools

Electric Utility: The Toledo Edison Company

Program Title or

New Construction Lighting

Description:

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: Mercantile Customer Information

Name: Toledo Public Schools Principal address:420 East Manhattan Blvd Address of facility for which this energy efficiency program applies: Multiple Arlington Elementary 707 Woodsdale Avenue 43614 600 Bassett Street 43611 Chase Elementary Grove Patterson Academy 3020 Marvin Avenue 43613 5555 W Bancroft Street 43615 Hawkins Elementary Martin Luther King Elementary 1300 Forest Avenue 43607 **Larchmont Schools** 1513 Slater Street 43612 Raymer 550 Raymer Blvd 43605 Reynolds 5020 Norwich Road 43615 Spring 730 Spring Street 43608 Name and telephone number for responses to questions: Ron Miller 419-277-9470 Electricity use by the customer (check the box(es) that apply): The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.) The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.) **Section 2: Application Information** A) The customer is filing this application (choose which applies): Individually, without electric utility participation. Jointly with the electric utility. B) The electric utility is: The Toledo Edison Company C) The customer is offering to commit (check any that apply):

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

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Section 3: Energy Efficiency Programs

A)	The	customer's energy efficiency	program involves (check those that apply):
		(Provide the date on whi equipment, and the date of such equipment if it had not explanation for how the c	functioning equipment with new equipment. In the customer replaced fully functioning on which the customer would have replaced not been replaced early. Please include a brief sustomer determined this future replacement are explain why this is not known)). If Checked, whibit 2
			nent to replace equipment that needed to be called new equipment on the following date(s):
			ent for new construction or facility expansion. equipment on the following date(s):
		Arlington Elementary	6/22/2009
	<u>Cha</u>	ase Elementary	1/12/2009
	<u>Gro</u>	ove Patterson Academy	4/27/2009
	<u>Hav</u>	wkins Elementary	11/15/2009
	Maı	rtin Luther King Elementary	1/12/2009
	Lar	chmont Schools	8/10/2009
	Ray	mer	8/12/2009
	Rey	nolds	8/8/2009
	<u>Spr</u>	ing	<u>8/10/2009</u> .
		Behavioral or operational in	nprovement.

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

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

Annual savings: ____ kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. Please see Exhibit 1 if applicable

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

Annual savings: 1,370,726 kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. Please see Exhibit 1 if applicable

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.

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Section 4: Demand Reduction/Demand Response Programs

A)	The customer's program involves (check the one that applies):
	Coincident peak-demand savings from the customer's energy efficiency program.
	Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
	Potential peak-demand reduction (check the one that applies):
	☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
	☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
В)	On what date did the customer initiate its demand reduction program?
C)	What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):
	<u>0</u> kW

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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 custor	ner is applying for:
	Optio	on 1: A cash rebate reasonable arrangement.
	OR	
	_	on 2: An exemption from the energy efficiency cost recovery anism implemented by the electric utility.
	OR	
	Com	mitment payment
B)	The value	of the option that the customer is seeking is:
	Option 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
		A cash rebate of \$51,403. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)
	Option 2:	An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.
		An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)
		OR
		A commitment payment valued at no more than \$ (Attach documentation and calculations showing how this payment amount was determined.)

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

Section 6: Cost Effectiveness

OR

1 0	ost effective because it has a benefit/cost ratio greater than 1 using the
(choose which app	olies):
Tota	l Resource Cost (TRC) Test. The calculated TRC value is: _(Continue to Subsection 1, then skip Subsection 2)
	ty Cost Test (UCT) . The calculated UCT value is: See Exhibit 3 (Skip absection 2.)
Subsection 1:	TRC Test Used (please fill in all blanks).
avoided distribu	C value of the program is calculated by dividing the value of our supply costs (generation capacity, energy, and any transmission or tion) by the sum of our program overhead and installation costs and remental measure costs paid by either the customer or the electric
	The electric utility's avoided supply costs were
	Our program costs were
	The incremental measure costs were

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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 See Exhibit 3

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 3**

Section 7: Additional Information

Please attach the following supporting documentation to this application:

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

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

Case No.: 13-0160-EL-EEC

State of Ohio:

Ron Miller, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Toledo Public Schools

[insert customer or EDU company name and any applicable name(s) doing business as]

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

Signature of Affiant & Title

Sworn and subscribed before me this 2 day of January , 2013 Month/Year

Kar S Rago Signature of official administering oath

Karen S. Ryan, EXEC. Admin. Print Name and Title ASST.

My commission expires on 06-04-2013



KAREN S. RYAN Notary Public, State of Ohio My Commission Expires 06-04-2013 Site Address: Arlington Elementary
Principal Address: 707 Woodsdale Avenue

		Principal Address:	: 707 Woodsdale Avenue	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Arlington Elementary Lighting	Arlington Elementary School was completed July 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	See Lighting Calculator	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 707 Woodsdale Avenue

Customer Legal Entity Name: Toledo Public Schools

Site Address: Arlington Elementary

Principal Address: 707 Woodsdale Avenue

Unadjusted Usage, kwh (A)

Usage, kwh (B)

Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c)
Note 1

122,304
122,304
51,937

Average 0 0 98,848

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Arlington Elementary Lighting	07/30/2009	\$700,252	\$350,126	122,304	122,304	-	\$6,115	\$4,586
					-	-	-		
							-		
					-	-	-		
							-		
					-	-	-		
							-		
		Total	\$700,252		122,304	122,304	0	\$6,115	\$4,586

Docket No. 13-0160

Site: 707 Woodsdale Avenue

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	122	\$ 308	\$ 37,704	\$ 4,050	\$4,586	\$1,223	\$ 9,859	3.8

Total	122	\$ 308	37,704	4,050	\$4,586	\$1,223	9,859	3.8

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Toledo Public Schools \sim Arlington Elementary Docket No. 13-0160

Site: 707 Woodsdale Avenue

Lighting Inventory Form

Addication:

Stand Call Science

Stand Call Sc

Lighting Zone (exterior crity):			Lighting 2	1016.3																				
Line New Construction	Building Address Floor	Area Description	Space Description	Interior or Exterior Foture	r Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Pre Fixture Code Onv	Pre Watts / Fixture	Pre kW / 1	Existing Existing Control Sensor e	Units D. Souare Feet	Lighting Power Density (Wasti)	Baseline kW Post /Space Fixture	Post Fixture Code	Post Watte Post kW / Fixture Space	Are Propose Occupancy Control	Proposed Sensor Co	Change in	Applicant Coincidence Coincidence Factor	Interactive Factor	Interactive Factor Co	Pre Post Demand ontrols Controls Savings	Applicant Prescribed Annua Equivalent Equivalent San
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											If multiple please	fixture types are used, only enter the total					by Code?			Estimate				(EFLH) Estimate
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e.g. Resolt e.g. NewConstruction	Example 1	Restaurant	Other Conference, Meeting or Training Room	Exterior	Ottol - Small Retail - Small	Builing facades (liner fribased)	Cooled Space	3 PANEL	112	0.34	NONE 500	Enear it	2.0	1,00 5	CFTSS/1-BX Example Cut Sheet 2		No OCC Yes DAY		1.75	85 85	31.0	12.0	0.0 0.0 2.00	2,608 2,425 G 8,760 2,048 6,0
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Building Address	Floor Area Description	Space Description	Interior or Exterior	Predominant Space Type	Exterior Lighting Description	Area Cooling	Pre Fixture P	Pre Flature Code	Pre Watts / Pre ki		Existing	Units	Lighting Power Density		ost Post Fixture Co.			Proposed						us Pro F			
			Fixture		(Exterior Lighting Only)		City		Flature Space		Sensor	e.g. Square Fee	(Wiunk)	/Space Fix	ture	Fixture	Space Occupancy	Control					tor Factor	Controls Co	ntrols Savings		Equivalent
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Project Estimated Annual Savings Summary

Lighting	
Estimated Annual kWh Savings	122,304
Total Change in Connected Load	52.50
Annual Estimated Cost Savings	\$12,230.40
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$6,115.20
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$6,115.20
Total Fixture Quantity excluding retrofit	
CFLs and LED Exit Signs	0
Total Lamp Quantity for retrofit Screw-In CFLs	0
Total Lamp Quantity for retrofit Hard-Wired CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Site Address: Chase Elementary
Principal Address: 600 Bassett Street

		Principal Address:	600 Bassett Street	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Chase Elementary School Lighting	Chase Elementary School was completed January 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 600 Bassett Street

Customer Legal Entity Name: Toledo Public Schools

Site Address: Chase Elementary

Principal Address: 600 Bassett Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	464,440	464,440	587,680
2010	503,200	503,200	626,440
2009	975,160	975,160	1,094,686
Average	647,600	647,600	769,602

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Chase Elementary School Lighting	01/12/2009	\$814,238	\$407,119	123,240	123,240	-	\$6,162	\$4,622
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		Total	\$814,238		123,240	123,240	0	\$6,162	\$4,622

Docket No. 13-0160

Site: 600 Bassett Street

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	123	\$ 308	\$ 37,992	\$ 4,050	\$4,622	\$1,232	\$ 9,904	3.8

Total	123	\$ 308	37,992	4,050	\$4,622	\$1,232	9,904	3.8

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Toledo Public Schools ~ Chase Elementary Docket No. 13-0160

Site: 600 Bassett Street

Lighting Inventory Form

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Lighting Zone (exterior only)	ŝ		119:20 Lighting Zo	12 one 3			The total of Column 5	, the quartities of CFLs	s and exit sign	ons in Column M, and the quantities of se	sors in Column R, will be used to calculate	your incentive on the NorStanda	nd Lighting form.											
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Project Estimated Annual Savings Summary

Lighting	ı
Estimated Annual kWh Savings	123,240
Total Change in Connected Load	59.25
Annual Estimated Cost Savings	\$12,324.00
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$6,162.00
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @	\$0.00
\$10/exit sign Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$6,162.00
Total Fixture Quantity excluding retrofit	0
CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In	0
CFLs Total Lamp Quantity for retrofit Hard-Wired CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	33.77
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Exhibit 1

Site Address: Grove Patterson Academy
Principal Address: 3020 Marvin Avenue

wnat date would you have replaced your

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	what date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Grove Patterson Academy Lighting	Grove Patterson Academy School was completed April 2009 as an OFSC funded project The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 3020 Marvin Avenue

Customer Legal Entity Name: Toledo Public Schools

Site Address: Grove Patterson Academy

Principal Address: 3020 Marvin Avenue

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1			
2011	1,058,920	1,058,920	1,235,823			
2010	1,014,388	1,014,388	1,191,291			
2009	192,880	192,880	313,562			
Average	755,396	755,396	913,559			

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Grove Patterson Academy Lighting	04/27/2009	\$1,094,315	\$547,158	176,903	176,903	-	\$8,845	\$6,634
					-	-	-		
					-		-		
					-	-	-		
						-	-		
					-	-	-		
					-		-		
		Total	\$1,094,315		176,903	176,903	0	\$8,845	\$6,634

Docket No. 13-0160

Site: 3020 Marvin Avenue

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	177	\$ 308	\$ 54,536	\$ 4,050	\$6,634	\$1,769	\$ 12,453	4.4

Total	177	\$ 308	54,536	4,050	\$6,634	\$1,769	12,453	4.4

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Toledo Public Schools \sim Grove Patterson Academy Docket No. 13-0160

Site: 3020 Marvin Avenue

Lighting Inventory Form

Table Discher.

Table Discher.

Annual School.

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PROJECT EASIC INFORMATION Line New Construction Building Address Floor Area Description Space Description Interior or Easing Production Tops Producting States Floor Production Space Description Interior or Easing Production Tops Product Table Product	ATTENTION STATES AND THE PROPERTY OF THE PROPE	t Demand Applicant Prescribed Annual kWh
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Project Estimated Annual Savings Summary

Lighting									
Estimated Annual kWh Savings	176,903								
Total Change in Connected Load	75.94								
Annual Estimated Cost Savings	\$17,690.30								
Annual Operating Hours	2,080								
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$8,845.15								
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00								
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00								
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00								
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00								
Total Calculated Incentive	\$8,845.15								
Total Fixture Quantity excluding retrofit									
CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In	0								
CFLs	0								
Total Lamp Quantity for retrofit Hard-Wired CFLs	0								

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)
--

Site Address: Hawkins Elementary
Principal Address: 5550 W Bancroft Street

		Principal Address:	wnat date would you nave replaced your		
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	what date would you have repraced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Hawkins Elementary School Lighting	Hawkins Elementary School was completed November 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures installed in the lot building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 5550 W Bancroft Street

Customer Legal Entity Name: Toledo Public Schools

Site Address: Hawkins Elementary

Principal Address: 5550 W Bancroft Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1	
2011	577,920	577,920	743,406	
2010	583,155	583,155	748,641 21,309	
Average	580,538	580,538	504,452	

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Hawkins Elementary School Lighting	11/15/2009	\$917,206	\$458,603	165,486	165,486	-	\$8,274	\$6,206
					-	-	-		
					-		-		
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					-		-		
						-	-		
		Total	\$917,206		165,486	165,486	0	\$8,274	\$6,206

Docket No. 13-0160

Site: 5550 W Bancroft Street

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	165	\$ 308	\$ 51,016	\$ 4,050	\$6,206	\$1,655	\$ 11,910	4.3

Total	165	\$ 308	51,016	4,050	\$6,206	\$1,655	11,910	4.3

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Toledo Public Schools ~ Hawkins Elementary Docket No. 13-0160

Site: 5550 W Bancroft Street

Lighting Inventory Form

Tags 2.0 Gaze.

ighting Zone (exterior only):	Lighting 2s	bne 3															
Line New Construction Building Address Floor	Area Description Space Description	PROJECT BASIC INFORMATION Interior or Exterior Predominant Space	ype Exterior Lighting Description Awa Cooling	Pre Fixture Pre Fixture Code	Pre-Watts / P	Pro kW / Ex	aleting	Existing Units	(NEW CONSTRUCTION) Lighting Power Density Baseline kW Post	Post Fixture Code Post Watta Post KW	ON Are Prop	seed Proposed	Change in Applicant	Energy Calculation Coincidence Interactive Interactive Pre	Post Demand .	Applicant Presc	cribed Annual kW
tem or Retroft		Fixture	(Essetor Lighting Only)	97	(W)	(kW) ***	Combrol rep deser	Sensor e.g. Square Feet Quantity (his applicable	(Wiunk) / Space Flatun (kW) Ony	Fixture Space (W) (kW)	Sensors dep Sensors	troi Sensor Quantity	(kW) Factor	(demand) (energy) Factor	Factor (kW)	Full Load Full I	Load
								If multiple fixture types are used,			by Code?		Estimate			(EFLH) Estimate	
								arealdistance igty once per space.									
e.g. Reholit 400 North Street 2 e.g. Nee Construction Example 1	Office Other Restaurant Contenuous, Meeting or Training Room	Interior Office - Small Exterior Retail - Small	Cooled Space Builing facades (liner t-based) Cooled Space	2 Feets	112	0.34 N	NONE	500 linear it	20 100 5	CFTSS1-BX 56 0.17 Example Cut Sheet 2 25 0.13	No Ot	C 3 Y 5	0.17 84% 1.25 89%	84% 34% 12% 0% 89% 34% 12% 0%	30% 0.19 0% 2.09	2,608 2,4 8,760 2,6	435 646 ,668 6,012
1 New Construction 5550 W Bancrott Ave	K-8 School University Classroom (excluding Shop or Labs)	Interior Education - Primary	heol Cooled Space					59,197 812	1.2 71.54	6.50	Yes No.	ve a	71.04	57% 34% 12% 0%	0% 54.26	2/	060 165
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or Retrofit				Fixture		(Exterior Lighting Only)		City		Flature Spo		Sensor		uans Feet (W/u	Space Fixtur		Fixture	Space Occupan	cy Control		nnected Load	Coincidence	Factor	Factor		Controls Controls	Savings E	Equivalent Equiva
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Project Estimated Annual Savings Summary

Lighting	ı
Estimated Annual kWh Savings	165,486
Total Change in Connected Load	71.04
Annual Estimated Cost Savings	\$16,548.60
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$8,274.30
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$8,274.30
Total Fixture Quantity excluding retrofit	0
CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In	
CFLs Total Lamp Quantity for retrofit Hard-Wired	0
CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)
--

Site Address: Larchmont Elementary
Principal Address: 1515 Slater Street

		Principal Address	: 1515 Slater Street		
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	wnat date would you nave replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Larchmont Elementary Lighting	Larchmont Elementary School was completed November 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160 Site: 1515 Slater Street

Customer Legal Entity Name: Toledo Public Schools

Site Address: Larchmont Elementary

Principal Address: 1515 Slater Street

	•	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	738,960	738,960	930,448
2010	750,273	750,273	941,761 192,013
Average	744.617	744.617	688.074

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1 Larchmo	ont Elementary Lighting	01/00/1900	\$1,003,417	\$501,709	191,488	191,488	-	\$9,574	\$7,181
					-	-	-		
					-		-		
					-	-	-		
					-		-		
					-	-	-		
					-		-		
		Total	\$1,003,417		191,488	191,488	0	\$9,574	\$7,181

Docket No. 13-0160

Site: 1515 Slater Street

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	191	\$ 308	\$ 59,032	\$ 4,050	\$7,181	\$1,915	\$ 13,145	4.5

Total	191	\$ 308	59,032	4,050	\$7,181	\$1,915	13,145	4.5

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Toledo Public Schools ~ Larchmont Elementary Docket No. 13-0160

Site: 1515 Slater Street

Lighting Inventory Form

Institute Table De Comment Com

Lighting Zone (exterior only):			Lighting Zo	ne 3																			
Line New Construction Item or Retroft	Building Address F	Floor Area Desc	cription Space Description	PROJECT BASIC IN Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Ficture Pri	PRE-INC re Finture Code	Pre-Watts / Pre-kW / E Fixture Space /	Cuisting Existing Control Sensor		Units Square Feet (IT)	W CONSTRUCTION) Lighting Power Density Base (W/unit) /S	eline kW Pos Space Fixtu (kW) Chy	POST- let Poet Fixture Code Poet Watte lure Fixture	PoetkW/ Are Space Occupancy	Proposed Proposed Control Sensor	Change in Applicant Connected Load Coincidence	Coincidence Interactive Interactive Factor Factor Factor	Pre Controls Co	Post Demand Applicant nitrols Savings Equivalent	Prescribed Annual kW Equivalent Saved
										(M) (kW) *	Quantity When applied	L	or)		(kW) Cry	ty (W)	Space Occupancy (kW) Sensors Required by Code?	Charactery When applicable	(kW) Factor (CIF)	(demand) (energy)	Factor F	actor (kW) Full-Load Hours	Full Load Hours
												please o area/distanc	nly enter the total eighy once per space.									Estimate	
e.g. Reholt e.a. New Construction	400 North Street Example	2 Office 1 Restau	se Other stant Conference Meeting or Training Room	Interior Exterior	Office - Small Retail - Small	Bulling Iscades (Iner Ebased)	Cooled Space Cooled Space	2	F44EL	112 0.34	NONE	- 50	linear A	21 1	1.89 5	CFTSS1-BX 56 Example Cut Sheet 2 25	0.17 No 0.13 Yes	OCC 3 DAY 5	0.17 84% 1.25 88%	865 365 525 895 365 525	0% :	30% 0.19 2.808 0% 2.09 8.760	2,425 G4G 2,068 G,012
1 New Construction	1515 Slater Street	K-45d	thool University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	_		0.00	NONE	69,490	612	12 8	82.20		0.00 Yes 0.00 0.00	NONE NONE	82.30	57% 36% 12%	0%	0% 62.78	2,000 191
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Project Estimated Annual Savings Summary

Lighting	
Estimated Annual kWh Savings	191,488
Total Change in Connected Load	82.20
Annual Estimated Cost Savings	\$19,148.80
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$9,574.40
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$9,574.40
Total Fixture Quantity excluding retrofit	
CFLs and LED Exit Signs	0
Total Lamp Quantity for retrofit Screw-In CFLs	0
Total Lamp Quantity for retrofit Hard-Wired CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	62.78
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Exhibit 1

Site Address: Martin Luther King Elementary
Principal Address: 1300 Forest Avenue

		Principal Address:	1300 Forest Avenue	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Martin Luther King Elementary School Lighting	Martin Luther King Elementary School was completed January 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 1300 Forest Avenue

Customer Legal Entity Name: Toledo Public School

Site Address: Martin Luther King Elementary

Principal Address: 1300 Forest Avenue

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	627,600	627,600	749,904
2010	643,854	643,854	766,158 118,618
Average	635,727	635,727	544,893

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Martin Luther King Elementary School Lighting	01/12/2009	\$789,753	\$394,877	122,304	122,304	-	\$6,115	\$4,586
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-		-		
		Total	\$789,753		122,304	122,304	0	\$6,115	\$4,586

Docket No. 13-0160

Site: 1300 Forest Avenue

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	122	\$ 308	\$ 37,704	\$ 4,050	\$4,586	\$1,223	\$ 9,859	3.8

Total	122	\$ 308	37,704	4,050	\$4,586 \$1,223	9,859	3.8

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Toledo Public School ~ Martin Luther King Elementary

Docket No. 13-0160

Site: 1300 Forest Avenue

Lighting Inventory Form

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Lighting Zone (exterior only):			Lighting Zor	ne 2																
Line New Construction	Building Address Fig	Tioor Area	Description Space Description	PROJECT BASIC Interior or Exterior	Predominant Space Type	Exterior Lighting Description	Area Cooling Pre-Fixture	PRE-B Pre-Fisture Code	Pro Watts / Pro kW /	Existing Exi	isting	DASELINE () Units	Lighting Power Density Baseline	KW Post Post Fixture Code Post Wat	ST-INSTALLATION PostkW/ Are	Proposed Proposed	Change in Applicant	Coincidence Interactive Interactive Pre	Post Demand Applicant	Prescribed Annuality
									Fixture Space (W) (kW)		antity epitekte	Units g. Square Feet (It') flature types are used, only enter the total	(Wiunk) /Space (kW)	City Fixture (W)	(kW) Sensors Required	despited Quantity When applicable	(kW) Factor (CF)	(demand) (energy) Fact	r Factor (kW) Full-Load Hours	Full Load Hours
											If multiple please	fixture types are used, only enter the total			by Code?		Estimate		(EFLII) Estimate	
e.c. Retoft	400 North Street 2	2	Office Other	Interior	Office - Small		Cooled Space 2	FREEL	112 0.34	NONE	areaidistan	icelyty once per space.		3 CFTSS1-BX 56	0.17 No	000 g	0.17 84%	MS MS DS DS	30% 0.12 2.604	2,425 646
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Project Estimated Annual Savings Summary

Lighting	
Estimated Annual kWh Savings	122,304
Total Change in Connected Load	52.50
Annual Estimated Cost Savings	\$12,230.40
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$6,115.20
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$6,115.20
Total Fixture Quantity excluding retrofit	
CFLs and LED Exit Signs	0
Total Lamp Quantity for retrofit Screw-In CFLs	0
Total Lamp Quantity for retrofit Hard-Wired CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Site Address: Raymer Elementary
Principal Address: 550 Raymer Blvd

		Principal Address:	550 Raymer Blvd	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Raymer Elementary School Lighting	Raymer Elementary School was completed August 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	See Lighting Calculator	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160 Site: 550 Raymer Blvd Customer Legal Entity Name: Toledo Public Schools

Site Address: Raymer Elementary

Principal Address: 550 Raymer Blvd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	602,320	602,320	767,806
2010	604,477	604,477	769,963 64,381
Average	603,399	603,399	534,050

Project Number	Project Name	In-Service Date	Project Cost\$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Raymer Elementary School Lighting	08/12/2009	\$842,604	\$421,302	165,486	165,486	-	\$8,274	\$6,206
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					-		-		
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					-	-	-		
		Total	\$842,604		165,486	165,486	0	\$8,274	\$6,206

Docket No. 13-0160

Site: 550 Raymer Blvd

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
_	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	165	\$ 308	\$ 51,016	\$ 4,050	\$6,206	\$1,655	\$ 11,910	4.3

Total	165	\$ 308	51,016	4,050	\$6,206	\$1,655	11,910	4.3

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Toledo Public Schools ~ Raymer Elementary **Docket No.** 13-0160

Site: 550 Raymer Blvd

Lighting Inventory Form

Table 2 Discours

Table 2 Disc

ighting Zone (exterior only):	Lighting 2s	ne2													
Line New Construction Building Address Floor	Area Description Space Description	PROJECT BASIC INFORMATION Interior or Exterior Predominant	Space Type Exterior Lighting Description Awa Cooling	Pre Fixture Pre Fixture Code	Pre Watts / Pre k	ROFIT) W/ Existing	Existing Units	(NEW CONSTRUCTION) Lighting Power Density Baseline kW Post	Post Fixture Code Post Watte Post KW /	ON Are Propose	d Proposed Change in	Applicant Coinciden	Energy Calculations ice Interactive Interactive Pre	Post Demand	Applicant Prescribed Annua
teen or Retroft		Fixture	(Exterior Lighting Only)	**	(W) (kV	ce Control	Sensor e.g. Square Feet Quantity When applicable	(Wiunit) / Space Fixture (kW) City	Fature Space (W) (kW)	Sensors draption Required	Guantity (kW) When applicable	Coincidence Factor Factor (CF)	(demand) (energy) Factor	Factor (kW)	Equivalent Equivalent Sax Full Load Full Load Hours Hours
							If multiple fixture types are used, please only enter the total			by Code?		Estimate			(EFLH) Estimate
Control (CONTROL CONTROL		The second secon	Carlot Carlo	2 5001	463	No.	arealdistance lighy once per space.		COTTON TO ALL			400		200	100
e.g. Retofit 400 North Street 2 e.g. New Conduction Example 1	Restaurant Conference, Meeting or Training Room	Interior Office - Exterior Retail -	Small Builing tacades (liner It based) Cooled Space	7 7982	712 0.3	NO.	500 Enear ft	2.0 1.00 5	CFTSS1-BX 56 0.17 Example Cut Sheet 2 25 0.13		5 1.75	59% B3%	365 125 05	6% 2.09	8,763 3,846 4,0
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Project Estimated Annual Savings Summary

Lighting	ı
Estimated Annual kWh Savings	165,486
Total Change in Connected Load	71.04
Annual Estimated Cost Savings	\$16,548.60
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$8,274.30
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$8,274.30
Total Fixture Quantity excluding retrofit	0
CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In	
CFLs Total Lamp Quantity for retrofit Hard-Wired	0
CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)
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Site Address: Reynolds Elementary Principal Address: 5020 Norwich Road

		Principal Address	: 5020 Norwich Road	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	what date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Reynolds Elementary School Lighting	Reynolds Elementary School was completed August 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160

Site: 5020 Norwich Road

Customer Legal Entity Name: Toledo Public Schools

Site Address: Reynolds Elementary

Principal Address: 5020 Norwich Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	503,440	503,440	668,926
2010	298,120	298,120	463,606 66,194
Average	400,780	400.780	399.575

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Rebate Amount (H) \$ Note 2
1	Reynolds Elementary School Lighting	08/08/2009	\$859,278	\$429,639	165,486	165,486		\$8,274	\$6,206
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		Total	\$859,278		165,486	165,486	0	\$8,274	\$6,206

Fligible

Docket No. 13-0160

Site: 5020 Norwich Road

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	165	\$ 308	\$ 51,016	\$ 4,050	\$6,206	\$1,655	\$ 11,910	4.3

Total	165	\$ 308	51,016	4,050	\$6,206	\$1,655	11,910	4.3

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Toledo Public Schools ~ Reynolds Elementary **Docket No.** 13-0160

Site: 5020 Norwich Road

Lighting Inventory Form

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Project Estimated Annual Savings Summary

Lighting	ı
Estimated Annual kWh Savings	165,486
Total Change in Connected Load	71.04
Annual Estimated Cost Savings	\$16,548.60
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$8,274.30
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$8,274.30
Total Fixture Quantity excluding retrofit	0
CFLs and LED Exit Signs Total Lamp Quantity for retrofit Screw-In	
CFLs Total Lamp Quantity for retrofit Hard-Wired	0
CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)
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Site Address: Spring Elementary Principal Address: 730 Spring Street

		Principal Address:	730 Spring Street	wnat date would you nave replaced your	
Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Spring Elementary School Lighting	Spring Elementary School was completed August 2009 as an OFSC funded project. The change in lighting significally increased energy efficiency rates.	The methodology of measurement and verification result was determined by viewing the light fixtures installed in the new building to the light fixtures in the old building. Using the lighting calculator project detail was plugged into the lighting schedules and lighting count sheet and produced results showing a significant difference in kWh between the old fixtures and new fixtures.	N/A	The school replaced all T12 fixtures with lower watt fixtures

Docket No. 13-0160 Site: 730 Spring Street Customer Legal Entity Name: Toledo Public Schools

Site Address: Spring Elementary

Principal Address: 730 Spring Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2011	558,440	558,440	696,469
2010	590,804	590,804	728,833 54,455
Average	574,622	574,622	493,252

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1	Spring Elementary School Lighting	08/10/2009	\$781,089	\$390,545	138,029	138,029	-	\$6,901	\$5,176
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		Total	\$781,089		138,029	138,029	0	\$6,901	\$5,176

Docket No. 13-0160

Site: 730 Spring Street

Notes

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

⁽¹⁾ Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	138	\$ 308	\$ 42,552	\$ 4,050	\$5,176	\$1,380	\$ 10,606	4.0

Total	138	\$ 308	42,552	4,050	\$5,176	\$1,380	10,606	4.0

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Toledo Public Schools \sim Spring Elementary Docket No. 13-0160

Site: 730 Spring Street

Lighting Inventory Form

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Project Estimated Annual Savings Summary

Lighting	
Estimated Annual kWh Savings	138,029
Total Change in Connected Load	59.25
Annual Estimated Cost Savings	\$13,802.90
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$6,901.45
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$6,901.45
Total Fixture Quantity excluding retrofit	
CFLs and LED Exit Signs	0
Total Lamp Quantity for retrofit Screw-In CFLs	0
Total Lamp Quantity for retrofit Hard-Wired CFLs	0

Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	45.26
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Mercantile Customer Project Commitment Agreement Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Toledo Edison Company, its successors and assigns (hereinafter called the "Company") and Toledo Public Schools, Taxpayer ID No. 34-6401449 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15, 2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. **Customer Energy Projects**. Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.

- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements
- b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
- c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
- d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
- e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
- 2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement: (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement; and
- iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

- 3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.
 - a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000; ii) the maximum rebate that the Customer may receive per year is \$500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
 - b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
 - Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
 - ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
 - c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.
- 4. **Termination of Agreement**. This Agreement shall automatically terminate:
 - a. If the Commission fails to approve the Joint Agreement;
 - b. Upon order of the Commission; or
 - c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

- 5. **Confidentiality**. Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.
 - a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys,

- consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.
- b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
- c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to:

 promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
- d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
- 6. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
- 7. **Notices**. Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company:

FirstEnergy Service Company 76 South Main Street Akron, OH 44308 Attn: Victoria Nofziger Telephone: 330-384-4684

Telephone: 330-384-46 Fax: 330-761-4281

Email: vmnofziger@firstenergycorp.com

If to the Customer:

Toledo Public Schools 420 East Manhattan Blvd Toledo, Ohio 43608-1267 Attn:Ron Miller

Telephone:419-277-9470

Email:rmiller3@tps.org

- or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.
- 8. **Authority to Act.** The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
- 9. **Non-Waiver**. The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
- 10. Entire Agreement. This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
- 11. **Assignment**. Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
- 12. **Severability**. If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
- 13. **Governing Law**. This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
- 14. **Execution and Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

Affidavit of Toledo Public Schools - Exhibit _A _

STATE OF OHIO

SS:

COUNTY OF Lucas

I, Ron Miller ,being first duly sworn in accordance with law, deposes and states as follows:

- 1. I am the Supervisor/Foreman of Toledo Public Schools ("Customer") As part of my duties, I oversee energy related matters for the Customer.
- 2. The Customer has agreed to commit certain energy efficiency projects to The Toleda Edison Company"), which are the subject of the agreement to which this affidavit is attached ("Project(s)").
- 3. In exchange for making such a commitment, the Company has agreed to provide Customer with Cash ("Incentive"). This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Company.
- 4. All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NAUGHT.

Mulfin In

Sworn to before me and subscribed in my presence this day of JAN, 2013.

Karry S Ryan

KAREN S. RYAN Notary Public, State of Ohio My Commission Expires 06-04-2013

Version 9.11.12

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

Please Select Operating Company_
(Company) Teledo (Edison
(Company) Toledo Edison By: A
Title: V.P. Of Energy Efficiency
Date: 1-11-13
Toledo Public Schools_
(Customer) By: Konald Milling
Title: Director Maintenance & Operations;
Date: 1-2-13

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/22/2013 5:46:05 PM

in

Case No(s). 13-0160-EL-EEC

Summary: Application electronically filed by Ms. Lindsey E Sacher on behalf of Toledo Public Schools and Toledo Edison Company