



Public Utilities Commission

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

Case No.: 20-1406-EL-EEC

Mercantile Customer: Smithers-Oasis Company

Electric Utility: Ohio Edison Company

Program Title or Description: Smithers-Oasis Marvin Campus - R&D Greenhouse Bay 1 & 3 Energy Efficient Lighting

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

Completed applications requesting the cash rebate reasonable arrangement option 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 for a period of up to 12 months will also qualify for the 60-day automatic approval. However, all applications requesting an exemption from the EEDR rider for longer than 12 months must provide additional information, as described within the Historical Mercantile Annual Report Template, that demonstrates additional energy savings and the continuance of the Customer's energy efficiency program. This information must be provided to the Commission at least 61 days prior to the termination of the initial 12 month exemption period to prevent interruptions in the exemption period.

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 altered or incomplete applications may result in a suspension of the automatic approval process or denial of the application.

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

Section 1: Mercantile Customer Information

Name: Smithers-Oasis Company

Principal address: 295 S Water Street # 201, Kent, Ohio 44240

Address of facility for which this energy efficiency program applies: 919 Marvin Street,
Kent, OH 44240

Name and telephone number for responses to questions: Vijay Rapaka, Email:
vrapaka@smithersoasis.com; Phone: 330-212-6195

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: Ohio Edison Company

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

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

Section 3: Energy Efficiency Programs

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

- ☐ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). **If Checked, Please see Exhibit 1 and Exhibit 2**
- ☒ Installation of new equipment to replace failed equipment which has no useful life remaining. The customer installed new equipment on the following date(s): July, 2020.
- ☐ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
_____.
- ☐ Behavioral or operational improvement.

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

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

Annual savings: _____ kWh

- 2) If you checked the box indicating that the customer installed new equipment to replace failed equipment which had no useful life remaining, then calculate the annual savings [(kWh used by new standard equipment) - (kWh used by the optional higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 60,042 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**

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 standard new equipment) - (kWh used by optional higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

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

Annual savings: _____ kWh

Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

- ☐ This project does not include peak demand reduction savings.
- ☒ Coincident peak-demand savings from the customer's energy efficiency program.
- ☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- ☐ Potential peak-demand reduction (check the one that applies):
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

B) On what date did the customer initiate its demand reduction program?

07/25/2020

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

11 kW

**Section 5: Request for Cash Rebate Reasonable
Arrangement, Exemption from Rider, or Commitment Payment**

Under this section, check all boxes that apply and fill in all corresponding blanks.

A) The customer is applying for:

☒ A cash rebate reasonable arrangement.

☐ An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

☐ Commitment payment

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

A cash rebate reasonable arrangement.

☒ A cash rebate of \$2252. (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.)

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.)

☐ 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 12 month period, the customer will need to complete, and file within this application, the Historical Mercantile Annual Report

Template to verify the projects energy savings are persistent.

- ☐ A commitment payment valued at no more than \$____. (Attach documentation and calculations showing how this payment amount was determined.)

Section 6: Cost Effectiveness

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

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)
- ☒ Utility Cost Test (UCT) . The calculated UCT value is: See Exhibit 3 (Skip to Subsection 2.)

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

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

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

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

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

Our avoided supply costs were 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.



Public Utilities Commission

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

Case No.: 20-1406-EL-EEC

State of OH :

James Daly, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Smithers-Oasis Company

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

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

Signature of Affiant & Title

Sworn and subscribed before me this 4 day of September, 2020 Month/Year

Signature of official administering oath

Colleen Bowers, Notary

Print Name and Title

My commission expires on 16 May 2025



Customer Legal Entity Name: Smithers-Oasis Company

Site Address: Smithers-Oasis Company

Principal Address: 919 Marvin Avenue

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	Smithers-Oasis Marvin Campus - R&D Greenhouse Bay 1 & 3 Energy Efficient Lighting	This project "Bay 1 & 3 Energy Efficient Lighting" is part of research greenhouse facility. Conducts research through the year on Hydroponic Food Crop like lettuce, tomatoes, and peppers. The Bay 1 & 3 - was originally equipped with 25 HPS lights (Model # CEC 600W 240v GLS w/Spacer GE HPS PSL lighting). For this project, all the HPS light fixtures were replaced with 28 energy efficient LED Fixtures (Model # Philips 929001659506 TM2.1 DRWLB RO). The installation happened during the month of July 2020. The facility became operational on July 24th 2020.	Please reference FE Lighting Rebate Calculator Tool	July 2021. At that time the fixtures would be at their end of life. Due to the energy costs, maintenance, and safety concerns it would be prohibitive to leave those fixtures in service.	All other lighting lighting sources were rejected because of the longer-life and energy savings with LEDs.

Exhibit 2

Customer Legal Entity Name: Smithers-Oasis Company

Site Address: Smithers-Oasis Company

Principal Address: 919 Marvin Avenue

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2019	3,383,953	3,383,953	3,383,953
Average	3,383,953	3,383,953	3,383,953

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) \$ <i>Note 2</i>	Commitment Payment \$
1	Smithers-Oasis Marvin Campus - R&D Greenhouse Bay 1 & 3 Energy Efficient Lighting	07/25/2020	\$17,268	\$8,634	60,042	60,042	11	\$3,002	\$2,252	
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
		Total	\$17,268		60,042	60,042	11	\$3,002	\$2,252	\$0

Docket No. 20-1406

Site: 919 Marvin 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, not to exceed the lesser of 50% of the project cost or \$250,000 per project. Combined Heat & Power (CHP) projects are not subject to the \$250,000 project rebate cap.

Exhibit 3

UCT = Utility Avoided Costs / Utility Costs

Project	Utility Avoided Cost \$ (A)	Utility Cost \$ (B)	Cash Rebate \$ (C)	Administrator Variable Fee \$ (D)	Total Utility Cost \$ (E)	UCT (F)
1	\$ 29,796	\$ 4,050	\$ 2,252	\$0	\$ 6,302	4.7
Total	29,796	4,050	2,252	\$0	6,302	4.7

Notes

- (A) Represents NPV of avoided energy and capacity costs over a 10 year life multiplied by the annual project savings.
- (B) 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.
- (C) This is the amount of the Rebate Payment paid to the customer for this
- (D) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (E) = (B) + (C) + (D)
- (F) = (A) / (E)

Smithers-Oasis Company ~ Smithers-Oasis Company

Docket No. 20-1406

Site: 919 Marvin Avenue

[illegible]

Project Estimated Summary

Lighting Incentive Program

Customer Name	Smithers-Oasis Company
Building Name	Smithers-Oasis Company
Building Address	919 Marvin, Kent, OH 44240

Estimated Annual Energy Savings (kWh)	60,042.09	
Demand Reduction (kW _{Summer})	11.30	
Annual Operating Hours	5824	
Total Calculated Project Incentive	\$3,002.10	

Equipment Category	kW	kWh	Quantity	Incentive
Lighting Controls	-	-	0	\$0.00
Linear Fluorescent T8 & T5	-	-	0	\$0.00
Linear LED	-	-	0	\$0.00
Exit Signs	-	-	0	\$0.00
LED Fixtures External	-	-	0	\$0.00
LED Fixtures Internal	-	-	0	\$0.00
LED Lamps	-	-	0	\$0.00
LED Reach-in Refrigerator/Freezer Lighting	-	-	0	\$0.00
LED Channel Signage	-	-	0	\$0.00
Street and Area Lighting	-	-	0	\$0.00
Custom - Process Improvement	11.30	60,042.09	28	\$3,002.10

Sodexo, Inc. - 1 (866) 578-5220 | energysaveOH@sodexo.com

Deemed kW Savings	11.30
As Found kW Savings	11.30
Total kW Savings	11.30
Deemed kWh Savings	35711.85
As Found kWh Savings	60042.09
Total kWh Savings	60042.09
Non Prescriptive kWh Savings	0.00

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/22/2020 9:15:19 AM

in

Case No(s). 20-1406-EL-EEC

Summary: Application LED lighting upgrade for Smithers-Oasis company electronically filed by Mr. John K Burgan on behalf of Smithers-Oasis Company and Mr. Vijay Rapaka