

# 2025 Incentive Application



**Consumers Energy**  
Business Energy Efficiency Programs

**Consumers Energy**  
*Count on Us®*

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## Types of Incentive Applications

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### Full PDF (this application) - Retrofit Project

Projects such as replacing existing equipment with new high-efficiency equipment, or retrofitting existing equipment to improve energy efficiency.

### Full PDF (this application) - New Construction Project

Projects that result in a permanent reduction in electrical (kWh) and/or natural gas (Mcf) energy use compared to baseline practices. The following project types are classified as New Construction/Major Renovation:

- New building wherein no structure or site footprint presently exists.
- Addition or expansion of an existing building or site footprint.
- Major tenant improvements that change the use of the space.
- Projects that require added energy load.

## Business Instant Discount Program

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**Instant savings, no application required!** Simply purchase the products from participating distributors to receive the instant discount. Pages 46 and 47 contain a list of all the eligible products. The incentive is a discount at the point of purchase from participating distributors.


For full details, visit:

[ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program](https://ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program)

## Bonus Incentives

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### Buy Michigan Bonus

Customers who use Michigan-made products in their energy saving projects may be eligible for an additional 20% bonus incentive. An affidavit from the manufacturer attesting the product is at least 50% manufactured and assembled in the state of Michigan (exclusive of packaging) is required. Look for this symbol:  and check the Buy Michigan box located next to eligible measures throughout the application to receive your bonus!

## Incentive Caps and Limits

Incentives are subject to limits in order to encourage equitable distribution of funds among as many Consumers Energy customers as possible. Incentive caps are imposed annually and are calculated based upon the program year in which the incentive is paid to the customer.

### Customer Annual Limits

The amount of incentives a facility or customer can receive is limited. A facility is defined as a single customer who is responsible for paying the Consumers Energy electric and/or natural gas bill. A customer is defined as the organization under which the company (or companies) are owned or operated, regardless of who is responsible for paying the bill. Program year incentive limits are per customer, facility, project or measure as shown below.

<b>Prescriptive Incentives</b>	100% of the total project cost, and per measure, facility, or project where specified in this Application or the Incentive Catalog
<b>Custom Incentives</b>	50% of the total project cost
<b>Electric Customer Incentive Limit</b>	\$2 million across all facilities per customer
<b>Natural Gas Customer Incentive Limit</b>	\$1 million across all facilities per customer
<b>Natural Gas Custom Tiers per Customer</b>	100% of the calculated natural gas incentive up to \$500,000 50% of the calculated natural gas incentive above \$500,000

### About this Application

Consumers Energy Business Energy Efficiency Programs offer incentives to help businesses reduce energy use by improving the efficiency of their equipment. Prescriptive incentives are cash incentives for implementing many common energy efficiency improvements. Custom incentives are cash incentives for making certain energy efficiency improvements not covered by prescriptive incentives.

All Consumers Energy commercial and industrial customers are eligible for prescriptive and custom incentives.

### Pre-Notifications

A Pre-Notification Application is required for most projects, including all custom incentive and new construction projects. It is recommended for projects requesting incentives over \$10,000. Check the current Incentive Application and Catalog for the measures you plan to implement to see if a Pre-Notification Application is required.

#### RETROFIT PROJECT PRE-NOTIFICATION

1. Completed Applicant Information sheet (page 6).
2. Supporting documentation (see Incentive Catalog for detailed descriptions of measures, equipment specifications and other requirements).
3. Specification sheets for all proposed equipment.
4. Business energy efficiency measure worksheets for incentives requested.

#### NEW CONSTRUCTION PRE-NOTIFICATION

Measures that may qualify for new construction are designated by a “ ” symbol on the left of the measure.

1. Completed Applicant Information Sheet (page 6).
2. Supporting documentation (see Incentive Catalog for detailed descriptions of measures, equipment specifications and other requirements).
3. Specification sheets for all proposed equipment.
4. Business energy efficiency measure worksheets for incentives requested.

### 1. Check Project and Equipment Eligibility

All installed equipment must meet or exceed specifications described in the Incentive Catalog available at [ConsumersEnergy.com/startsaving](http://ConsumersEnergy.com/startsaving).

1

Wait until your application is approved before starting your project. Your reservation letter will state your project approval and the amount reserved.

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### 5. Receive Incentive Payment

When Final Application is approved an incentive check will be mailed to you or your designee. Checks are typically mailed within 6 to 8 weeks.

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### 2. Submit Pre-Notification Application

Pre-Notification Applications are required for some projects (see page 4 for details) and recommended for projects requesting incentives exceeding \$10,000. Keep your Pre-Notification Application for your Final Application. Simply update the Application with the final information and move the check mark to the Final Application box at the top of page 6.

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### 4. Submit a Final Application

You must submit your Final Application within 60 days of the completion date, or on or before the reservation expiration date, whichever occurs first.

Attach the following (incomplete applications will be rejected):

1. Completed applicant information, customer signature, and payment release, if appropriate (pages 6 & 7).
2. Supporting documentation (see Incentive Catalog for detailed descriptions of measures, equipment specifications and other requirements).
3. Dated and itemized invoices listing the model number, manufacturer, unit price and quantity of the installed equipment.
4. Scope of work depicting the type and quantity of installed equipment (as necessary).
5. Specification sheets for installed equipment, if different from previously submitted.
6. Business energy efficiency measure worksheets for incentives requested.
7. Copy of payee's W-9.

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### 3. Install Equipment and/or Complete Project

You have a total of 90 days (Retrofit) or 18 months (New Construction) to install equipment and/or complete your project and submit your Final Application. Contact the Program team if your project will take longer.

**DIRECTIONS:** Please save this form to your computer by selecting "File>Save As..." before filling out any information electronically and after select "Save."

Note: this form requires Adobe Reader® version 11.0 or higher to function properly. Download it at [get.adobe.com/reader](http://get.adobe.com/reader).



## Final Application/Customer Signature

Measure Category	Category Total (Before)	Buy Michigan
Lighting		
Lighting Controls		
Variable Frequency Drives (VFD)		
Compressed Air		
Miscellaneous Electric		
Manufacturing		
HVAC Equipment		
Building Automation Systems		
Advanced Air Distribution and Energy Recovery		
Laboratory		
Tune-up/Maintenance		
Refrigeration/Laundry/Kitchen		
Building Envelope and Insulation		
Pipe and Ductwork Insulation		
Agricultural		
LEED® Whole Building		
Custom		

**Print (Save)  
Pages with  
Data Entered**

Incentive Totals	
<b>Measure Subtotal</b>	
<b>20% Buy Michigan Bonus</b>	
<b>Incentive Total</b>	

**Important:** Please read the Terms and Conditions on page 8 before signing and submitting this application. A customer signature is required for payment in the Incentive Requested section below. Checks will be made out to the applicant's business unless payment is released in the Third Party Payment Release section below.

Incentive Requested		
Total Project Cost	Total Incentive Requested	Actual Completion Date
Company Name (as it appears on Consumers Energy bill)	Project #	
Customer Signature	Date	
Print Name	Title	

▶ Upon signing, I am stating that I have read and understand the Terms and Conditions set forth by this program.

Third Party Payment Release		
<b>Skip This Section If Rebate Check Will Be Made Payable To Customer</b>		
I authorize the payment of the incentive to the third party named below, and I understand that I will not be receiving the incentive payment. I also understand that my release of the payment to a third party does not exempt me from the program requirements outlined in the Incentive Catalog, Final Application Agreement and Terms and Conditions.		
<b>Authorized By:</b>		
Customer Name	Signature	Date
<b>Check should be made payable to:</b>		
Individual/Company Name*	Phone	
Mailing Address		
City	State	ZIP

**Tax Status\*\*:**  Individual/Sole Proprietor/ Single-Member LLC  C Corporation  Partnership  LLC: Enter Tax Classification \_\_\_\_\_  
 S Corporation  Trust/Estate  Other \_\_\_\_\_

**Tax ID Number** Please provide your EIN/Federal Tax ID below.

EIN/Federal Tax ID   -

**Exemptions**

Payee Code \_\_\_\_\_ FATCA Code \_\_\_\_\_

▶ Please note that this document will require re-saving each time a digital signature is used.

\* Company name as it appears on your W-9.

\*\* W-9 must be provided for payee with application.

## Terms and Conditions

I certify that Customer is an eligible Consumers Energy Company (“Consumers Energy”) customer and that the indicated energy efficiency measures were installed between January 1, 2025 and December 31, 2025 (the “Program Year”). The energy optimization measures are installed in a qualifying Customer facility, with a qualifying Consumers Energy account, paying the Energy Waste Reduction surcharge, not for resale. And meet all of the terms and conditions in the Business Energy Efficiency Programs Policy and Procedures Manual (the “Manual”) available at [ConsumersEnergy.com/StartSaving](https://ConsumersEnergy.com/StartSaving).

**Incentives.** I understand that in the event that Customer received a reservation, that reservation is not a guarantee of payment. Incentive payment will be based upon the final application meeting the Program requirements. Customer acknowledges that incentives will be paid only if: (a) Customer(s) and installed measure(s) or services meet the Program eligibility requirements and the requirements outlined by the Program; (b) measures are installed in eligible project sites; and (c) measures are installed at a project site that has not received incentives from any other of Consumers Energy’s energy efficiency programs for the same measure(s). Customer understands that Consumers Energy, in its sole discretion, may withhold incentive payments committed to Customer if a project site is proven ineligible or a project otherwise does not comply with the requirements set forth by the Program.

- Project funds are reserved for 90 days from the date of the reservation (18 months for New Construction projects). Inside the 90-day and 18-month time-frame, you must submit your Final Application within 60 days of your project completion.
- The Program has a limited budget, but is an annual program. Applications will be processed until allocated funds are fully subscribed or spent each program year. Incentive amounts are subject to change at any time within the program year; however, reserved incentive amounts will be honored within a program year.
- New Construction final applications must be received by November 30 of the program year to qualify for the current year’s funding. Multi-year project incentives may vary in accordance with program year changes.
- All equipment must be purchased and installed prior to submitting the Final Application.
- All equipment installed must meet the minimum specifications as stated in the Incentive Catalog and these Terms and Conditions. Failure to meet the minimum specifications will result in disqualification of the measure or incentive payment.
- Incentives may be taxable, and the applicant is solely responsible for the payment of any resulting taxes. Incentives will be reported to the IRS, unless applicant is a corporation or tax exempt.
- From the project completion date the applicant may be required to refund some or all of the incentives if the measures do not remain (or were not) installed for a period of five (5) years or the end of the product life, whichever is less.
- All materials removed, including lamps and PCB ballasts, must be taken out of service permanently and disposed of in accordance with local, state and federal codes and ordinances. The Applicant is responsible for being aware of any applicable codes or ordinances. Information about hazardous waste disposal may be found at [Michigan.gov/eqlc](https://Michigan.gov/eqlc).
- For certain measures, the incentive amount will be determined based on the estimated energy savings.

**Auditing and Verification.** Customer also agrees to allow Consumers Energy and Implementer to access its facilities for the purpose of confirming Customer’s participation in the Program, inspecting projects, and verifying the energy savings achieved through the Program for up to five (5) years from the project completion date. Customer agrees to cooperate with Consumers Energy and Implementer, as necessary. Customer also agrees to remedy any issue arising from auditing and monitoring results within the timeframe provided by the Program. Customer understands that any incentives may be withheld if Customer refuses to participate in any required verification within a reasonable period. Customer verifies that all projects are installed in accordance with all applicable federal, state and local laws and manufacturer’s specifications. Customer may be required to provide documentation on energy savings calculations and assumptions.

Consumers Energy will make the final determination of the energy savings and thus the incentive amount to be paid.

Consumers Energy has no obligations regarding and does not endorse or guarantee any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors that sell or install any energy efficiency measure.

- I have read and understand the Program Requirements, Measure Specifications and Program Guidelines set forth in this Application, the Incentive Catalog and the Program Policy and Procedures Manual and agree to abide by those requirements. Furthermore, I concur that I must meet all eligibility criteria in order to be paid under this program and not receive incentives from any other utility for the same project.

**Confidentiality.** I understand that Consumers Energy and its authorized agents may utilize Customer’s account information and project scope to evaluate this Application and the project for compliance with the Manual and these Terms and Conditions. I authorize Consumers Energy to utilize certain information including, Customer company name, energy savings and incentive value for regulatory and promotional purposes. If I choose to subsequently opt out of any recognition, I must indicate this choice in a written letter to Consumers Energy or Implementer. Consumers Energy will not sell, rent, or lease our subscription lists to third parties, and we will not provide your personal information to any third party individual, government agency, or company except as described in this paragraph at any time unless compelled to do so by law. Consumers Energy and Implementer will use your email address solely to provide timely information about the Consumers Energy Business Energy Efficiency Programs and your projects.

- Reserved incentive amounts are not guaranteed and the actual amounts will be based on a review of the final application and supporting documentation (and may be capped at the reserved amount).
- The final incentive amount will be based on the program requirements for the program year for which the incentive is paid.

**NO WARRANTY.** CONSUMERS ENERGY AND IMPLEMENTER MAKE NO REPRESENTATIONS OR WARRANTIES, AND ASSUME NO LIABILITY WITH RESPECT TO QUALITY, SAFETY, PERFORMANCE, OR OTHER ASPECT OF ANY PROJECT AND EXPRESSLY DISCLAIM ANY SUCH REPRESENTATION, WARRANTY OR LIABILITY, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. NOTHING IN THIS AGREEMENT SHALL BE CONSTRUED TO CREATE ANY DUTY TO, ANY STANDARD OF CARE WITH REFERENCE TO, OR ANY LIABILITY TO ANY THIRD PARTY. NEITHER CONSUMERS ENERGY NOR IMPLEMENTER SHALL BE RESPONSIBLE FOR COSTS OR CORRECTIONS OF CONDITIONS ALREADY EXISTING IN THE FACILITIES INSPECTED WHICH FAIL TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

**LIMIT ON LIABILITY.** TO THE EXTENT ALLOWED BY LAW, CUSTOMER AGREES TO INDEMNIFY CONSUMERS ENERGY AND IMPLEMENTER AGAINST ALL LOSS, DAMAGES, COSTS AND LIABILITY ARISING FROM ANY CLAIMS RELATED TO ANY PROJECTS OR SERVICES PERFORMED IN CONNECTION WITH THE PROGRAM. NEITHER CONSUMERS ENERGY, IMPLEMENTER, NOR CUSTOMER SHALL BE LIABLE TO EACH OTHER FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RELATED TO THIS APPLICATION.

**Governing Law.** This Agreement shall be deemed to be a Michigan contract and shall be construed in accordance with and governed by the laws of the State of Michigan, without regard to its choice-of-law principles. The parties agree that all actions arising out of this Agreement shall be filed exclusively in a state or federal court located in Michigan. The parties further agree to consent to any motion to transfer venue of a civil action involving this Agreement that is filed in another venue, and the parties waive the right to challenge such a motion, whether on grounds of forum non conveniens or any other basis regarding the appropriateness of venue in Michigan.

Signature: \_\_\_\_\_




**UL Type A, B, and Dual Mode (DM) Interior Linear LED Tube Light Retrofits\* (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	LED Model #	Total Incentive	
LT101	2-Foot T12 to 2-Foot LED Tube Light	\$2.50	Lamp				<input type="checkbox"/>
LT102	2-Foot T8 to 2-Foot LED Tube Light	\$1.00	Lamp				<input type="checkbox"/>
LT103	3-Foot T12 to 3-Foot LED Tube Light	\$3.50	Lamp				<input type="checkbox"/>
LT104	3-Foot T8 to 3-Foot LED Tube Light	\$2.00	Lamp				<input type="checkbox"/>
LT105	4-Foot T12 to One (1) 4-Foot LED Tube Light	\$5.00	Lamp				<input type="checkbox"/>
LT106	4-Foot T8 to One (1) 4-Foot LED Tube Light (Low Bay)	\$3.00	Lamp				<input type="checkbox"/>
LT107	4-Foot T8 to One (1) 4-Foot LED Tube Light (High Bay)	\$4.00	Lamp				<input type="checkbox"/>
LT108	4-Foot T5 to One (1) 4-Foot LED Tube Light (Low Bay)	\$3.00	Lamp				<input type="checkbox"/>
LT109	4-Foot T5 to One (1) 4-Foot LED Tube Light (High Bay)	\$4.00	Lamp				<input type="checkbox"/>
LT110	8-Foot T12 to Two (2) 4-Foot LED Tube Light	\$10.00	8-foot Replaced				<input type="checkbox"/>
LT111	8-Foot T8 to Two (2) 4-Foot LED Tube Light	\$7.00	8-foot Replaced				<input type="checkbox"/>
LT112	8-Foot T12 to One (1) 8-Foot LED Tube Light	\$10.00	8-foot Replaced				<input type="checkbox"/>
LT113	8-Foot T8 to One (1) 8-Foot LED Tube Light	\$7.00	8-foot Replaced				<input type="checkbox"/>

**UL Type C Interior Linear LED Tube Light Retrofits\* (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	LED Model #	Total Incentive	
LT114	2-Foot T12 to 2-Foot LED Tube Light	\$2.50	Lamp				<input type="checkbox"/>
LT115	2-Foot T8 to 2-Foot LED Tube Light	\$1.00	Lamp				<input type="checkbox"/>
LT116	3-Foot T12 to 3-Foot LED Tube Light	\$3.50	Lamp				<input type="checkbox"/>
LT117	3-Foot T8 to 3-Foot LED Tube Light	\$2.00	Lamp				<input type="checkbox"/>
LT118	4-Foot T12 to One (1) 4-Foot LED Tube Light	\$5.00	Lamp				<input type="checkbox"/>
LT119	4-Foot T8 to One (1) 4-Foot LED Tube Light (Low Bay)	\$3.00	Lamp				<input type="checkbox"/>
LT120	4-Foot T8 to One (1) 4-Foot LED Tube Light (High Bay)	\$4.00	Lamp				<input type="checkbox"/>
LT121	4-Foot T5 to One (1) 4-Foot LED Tube Light (Low Bay)	\$3.00	Lamp				<input type="checkbox"/>
LT122	4-Foot T5 to One (1) 4-Foot LED Tube Light (High Bay)	\$4.00	Lamp				<input type="checkbox"/>
LT123	8-Foot T12 to Two (2) 4-Foot LED Tube Light	\$10.00	8-foot Replaced				<input type="checkbox"/>
LT124	8-Foot T8 to Two (2) 4-Foot LED Tube Light	\$7.00	8-foot Replaced				<input type="checkbox"/>
LT125	8-Foot T12 to One (1) 8-Foot LED Tube Light	\$10.00	8-foot Replaced				<input type="checkbox"/>
LT126	8-Foot T8 to One (1) 8-Foot LED Tube Light	\$7.00	8-foot Replaced				<input type="checkbox"/>

**Permanent Interior T8 or T12 Fluorescent Lamp Removal (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
LT127	T8 or T12 2-Foot or 3-Foot Lamp Removal	Must be combined with an LED Tube Light measure (LT101 - LT126).	\$1.50	Lamp Removed	
LT128	T8 or T12 4-Foot Lamp Removal		\$5.00	Lamp Removed	
LT129	T8 or T12 8-Foot Lamp Removal		\$12.00	Lamp Removed	

\*Notes:



UL Type A: TLEDs are used as a direct replacement for existing fluorescent tubes, reusing the existing fluorescent ballast and lamp holders to connect the TLED to the fixture.

UL Type B: TLEDs typically use the lamp holders (either existing or retrofitted) to connect the TLEDs to the existing fluorescent fixture and the existing fluorescent ballast is bypassed or removed. TLEDs have internal drivers and run off line voltage.

UL Type C: TLEDs are connected to the low voltage side of a new TLED external driver and the existing fluorescent ballast is disconnected and fully removed from the existing fluorescent fixture.

Dual Mode (DM) Internal Drivers (UL Type A and Type B): TLEDs may operate off the existing fluorescent ballast or be rewired to operate off line voltage. They have the same requirements as Type A or Type B TLEDs.

**Subtotal Lighting Incentive - Page 1**

Check the Buy Michigan Box  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.



**LED Lighting Fixture and Lamp Retrofits (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive (F)	Unit
LT201	Exterior LED Lighting	\$0.65	Watt Reduced
LT202	Parking Garage LED Lighting	\$0.60	Watt Reduced
LT203	Interior LED Lighting (High Bay ≥ 15-Foot)	\$0.40	Watt Reduced
LT204	Interior LED Lighting (High Bay ≥ 15-Foot) Continuous Operation	\$1.00	Watt Reduced
LT205	Interior LED Lighting (Low Bay < 15-Foot)	\$0.35	Watt Reduced
LT206	Interior LED Lighting (Low Bay < 15-Foot) (≥ 8,000 hrs./yr.)	\$1.00	Watt Reduced
LT207	Interior Linear LED Tube Light Fixtures (High Bay ≥ 15-Foot)	\$0.55	Watt Reduced
LT208	Interior Linear LED Tube Light Fixtures (High Bay ≥ 15-Foot) Continuous Operation	\$1.00	Watt Reduced
LT209	Interior Linear LED Tube Light Fixtures (Low Bay < 15-Foot)	\$0.30	Watt Reduced
LT210	Mogul Base LED Lamp Replacing ≤ 400W HID Lamp	\$0.25	Watt Reduced
LT211	Mogul Base LED Lamp Replacing ≤ 400W HID Lamp (≥ 8,000 hrs./yr.)	\$0.40	Watt Reduced
LT212	Signage and Canopy Decorative/Security LED Lighting (Continuous Operation)	\$0.50	Watt Reduced
LT213	Signage and Canopy Decorative/Security LED Lighting (Commercial Hours)	\$0.25	Watt Reduced

Select Appropriate Measure ID	Pre			Post			Total Watts Reduced (E)= (AxB)-(CxD)	Incentive (see above) (F)	Total Incentive (ExF)	
	# of Fixtures (A)	# of Lamps/Fixture	Watts Per Fixture (B)	# of Fixtures (C)	# of Lamps/Fixture	Watts Per Fixture (D)				
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
LED Model #										<input type="checkbox"/>
<b>Total Incentive</b>										

Subtotal Lighting Incentive - Page 2

Check the Buy Michigan Box  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

**Interior Hardwired LED Trim Kits and Downlight Fixtures (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	LED Model #	Total Incentive
LT301	Interior Hardwired LED Trim Kits and Downlight Fixtures	\$8.00	Trim Kit/ Fixture			



**Non-Defined LED Lighting (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit
LT302	Lumens per Watt Improvement (Mean Efficacy Increase $\geq$ 5%)	\$0.09	kWh
LT303	Energy Conservation Improvement (Mean Efficacy Increase $<$ 5%)	\$0.05	kWh



Brief Description of Existing Lighting System	Annual Hours of Operation (B)	Mean Lumens/Watt (C)	# of Fixtures or Lamps (K)	Watts per Fixture or Lamp (L)	Total Lumens (F)=(CxDxE)	Total Watts (G)=(DxE)	Total kWh/yr. (H)=(BxG/1,000)
<b>Totals</b>							

Brief Description of New Lighting System	Annual Hours of Operation (I)	Mean Lumens/Watt (J)	# of Fixtures or Lamps (K)	Watts per Fixture or Lamp (L)	Total Lumens (M)=(JxKxL)	Total Watts (N)=(KxL)	Total kWh/yr. (P)=(IxN/1,000)
<b>Totals</b>							

Project Cost (\$) (R)	Existing System Lumens/Watt (S)=(F/G)	New System Lumens/Watt (T)=(M/N)	Lumens/Watt Percent Improvement (U)=(T/S-1)	Annual kWh Savings (V)=(H-P)	Incentive (See Above) (\$/kWh) (A)	Total Incentive (VxA)
<b>Total Awarded Incentive [Lesser of 1/2 Project Cost (R) or Total Incentive (V x A)]</b>						



**Subtotal Lighting Incentive - Page 3**

Check the Buy Michigan Box  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

**New Construction LED Lighting Power Density\* (Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit
LT401	Interior LED Lighting	\$0.30	Watt Reduced
LT402	Exterior LED Lighting	\$0.45	Watt Reduced
LT403	Parking Garage LED Lighting	\$0.80	Watt Reduced

	Description of Facility Space	Occupied Area (ft <sup>2</sup> )	Total Allowed Watts (B)	Total Proposed Watts (C)	Total Watts Reduced (D)=(B-C)	Total Incentive (\$)
Interior						(D x \$0.30)
	Total					
Exterior						(D x \$0.45)
	Total					
Parking Garage						(D x \$0.80)
	Total					
<b>Total Incentive</b>						

\*All lighting projects are expected to comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels or the local code.



Subtotal Lighting Incentive - Page 4

Total Lighting Incentive

For internal use only

	Allowed	Proposed	Reduction
Tradeable watts			
Non-tradeable watts			

## Lighting Controls

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Lighting Controls <sup>(1)</sup>Pre-Notification Required

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
LC101a	Interior Lighting Occupancy Sensors per Space Controlled <sup>(2)</sup>	< 150 sq. ft.	\$12.00	Sensor		<input type="checkbox"/>
LC101b		150 to 500 sq. ft.	\$35.00	Sensor		<input type="checkbox"/>
LC101c		> 500 sq. ft.	\$85.00	Sensor		<input type="checkbox"/>
LC102	Interior Lighting Occupancy Sensors per Watt <sup>(2)</sup>	\$0.08	Watt Controlled			<input type="checkbox"/>
LC103	Interior Lighting Occupancy and Daylight Sensor Controls <sup>(1)</sup>	\$0.12	Watt Controlled			<input type="checkbox"/>
LC104	Interior Lighting Daylight Sensor Controls <sup>(1,3)</sup>	\$0.09	Watt Controlled			<input type="checkbox"/>
LC105	Interior Centralized Lighting Controls <sup>(1)</sup>	\$0.06	Square Foot			<input type="checkbox"/>
LC106	Interior Stairwell Lighting Controls <sup>(1)</sup>	\$0.40	Watt Controlled			<input type="checkbox"/>
LC107	Exterior Lighting Multi-Step Dimming Occupancy Sensor Controls <sup>(1)</sup>	\$0.15	Watt Controlled			<input type="checkbox"/>
LC108	Exterior Lighting Occupancy Sensor Controls <sup>(1)</sup>	\$0.25	Watt Controlled			<input type="checkbox"/>
LC109	Exterior Lighting Multi-Step Dimming Timer Controls <sup>(1)</sup>	\$0.15	Watt Controlled			<input type="checkbox"/>

<sup>(2)</sup>Measures LC101 and LC102 cannot be applied to the same sensor. Integrated sensors and sensors controlling only one low-bay fixture are only eligible for LC101a or LC102. Sensors controlling a single high-bay fixture or integrated into a high-bay fixture are eligible for LC101a, LC101b or LC102.

<sup>(3)</sup>Measure may be eligible for New Construction applications if daylight sensor controls are not required by code (consult Incentive Catalog, ASHRAE 90.1- 2013 and local building codes).

#### Subtotal Lighting Control Incentive


### Networked Lighting Controls (NLC) (Pre-Notification Required)

Please attach supporting documentation as described in the Consumers Energy Business Energy Efficiency Program Incentive Catalog and/or the Program Policies and Procedures Manual.

#### Step 1: Energy Savings Summary

Incentive Rate Type 1: Commercial, Offices, Schools and Hospitals; \$0.25/kWh/year

Incentive Rate Type 2: Manufacturing, Heavy Industrial, Parking Structures and Warehousing; \$0.18/kWh/year

ID	Service	Unit	Annual Savings (kWh/yr.)** (A)	Incentive (\$/kWh) (B)	Project Cost (\$)	Total NLC Incentive* (AxB)	
LC110	Electric	kWh		Type 1: \$0.25			<input type="checkbox"/>
LC111	Electric	kWh		Type 2: \$0.18			<input type="checkbox"/>

#### Step 2: Miscellaneous Data

Annual Hours of Operation (Hours/yr.)	Estimated Measure Life (Years)	Peak Demand Electrical Savings (kW)

#### Step 3: Executive Summary (Please define project scope in full detail including a summary of pre- and post-NLC retrofit lighting and controls)



\*Total Awarded Incentive cannot exceed 50 percent of the total project cost or customer annual limits.

\*\*If New Construction, the baseline shall be in accordance with Michigan Energy Code or standard customary practice.

#### Subtotal Network Lighting Controls Incentive\*\*

#### Total Lighting Controls Incentive

## Variable Frequency Drives (VFD)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### HVAC Variable Frequency Drives

(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit (B)
VF101	VFD on HVAC Supply Fans up to 100 HP*	\$70.00	HP
VF102	VFD on HVAC Return Fans up to 100 HP*	\$70.00	HP
VF103	VFD on HVAC Cooling Tower Fans up to 100 HP*	\$40.00	HP
VF104	VFD on HVAC Chilled Water Pumps up to 100 HP*	\$60.00	HP
VF105	VFD on HVAC Hydronic Heating Water Pumps up to 100 HP*	\$100.00	HP
VF106	VFD on HVAC Fans - Fixed Speed ( $\leq 54$ Hz) up to 100 HP*	\$50.00	HP
VF107	VFD on CW HVAC Pumps - Fixed Speed ( $\leq 54$ Hz) Bypass up to 100 HP*	\$40.00	HP
VF108	VFD on CW HVAC Pumps - Fixed Speed ( $\leq 54$ Hz) Throttled up to 100 HP*	\$25.00	HP
VF109	VFD on HW HVAC Pumps - Fixed Speed ( $\leq 54$ Hz) Bypass up to 100 HP*	\$70.00	HP
VF110	VFD for HW HVAC Pumps - Fixed Speed ( $\leq 54$ Hz) Throttled up to 100 HP*	\$40.00	HP
VF111	Two-Speed RTU Supply Fans*	\$20.00	Ton
VF112	VFD on HVAC or Grocery Store Refrigeration System Condenser Fans*	\$50.00	Ton of Load

\*Measure may be eligible for New Construction applications if variable speed control is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

VFD Application (See Above)	Installation Type (I)	Control Before VFD (II)	VFD Control Variable (III)	Incentive (see above) (A)	Controlled Motor HP or Tons of Load (see above) (B)	# of Motors or Units (C)	Total Incentive (A x B x C)

#### VFD Installation Type (I)

Code	Description	Code	Description
SFA	HVAC Supply Air Fan	CDWP	Condenser Water Pump
RFA	HVAC Return Air Fan	CW	Chilled Water Pump
BEF	Building Exhaust Fan	WSP	Domestic Water Pump
MAF	Makeup Air Fan	FWP	Boiler Feedwater Pump
CTF	Cooling Tower Fan	HW	Hydronic HVAC Pump
BDF	HVAC Boiler Draft Fan	PP	Pool Pump
FM	Other Fan (Specify):	PM	Other Pump (Specify):

#### Control Before VFD (II)



Code	Description
DD	Discharge Damper
IGV	Inlet Guide Vanes
OCV	Outlet Control/Throttle Valve
BV	Bypass
ONF	ON/OFF
MISC	Other (Specify):

#### VFD Control Variable (III)

Code	Description
Temp	Temperature
P	Pressure
Flow	Volume Flow Rate
Misc	Variable Input

Subtotal VFD Incentive - Page 1

# Variable Frequency Drives (VFD)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

## Process Variable Frequency Drives <sup>(1)</sup>Pre-Notification Required for Motors rated over 50 HP

(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit (B)
VF201	VFD on Process Pumps up to 50 HP	\$125.00	HP
VF202	VFD on Process Pumps 51 HP to 250 HP <sup>(1,3)</sup>	\$125.00	HP
VF203	VFD on Process Fans up to 50 HP	\$100.00	HP
VF204	VFD on Process Fans 51 HP to 250 HP <sup>(1,3)</sup>	\$100.00	HP
VF205	VFD on Process Fans - Fixed Speed ( $\leq$ 54 Hz) up to 250 HP <sup>(1,3)</sup>	\$75.00	HP
VF206	VFD on Process Pumps - Fixed Speed ( $\leq$ 54 Hz) up to 250 HP <sup>(1,3)</sup>	\$100.00	HP
VF207	VFD on Data Center, Telecom, or Computer Room Air Conditioning System (CRAC) Pumps and Fans <sup>(2)</sup>	\$150.00	HP
VF208	VFD on Open Loop Pumping Systems up to 100 HP <sup>(1)</sup>	\$40.00	HP
VF209	VFD on Condenser Fans - Med Temp Refrigeration (33° to 50°F) (excluding grocery stores) <sup>(2)</sup>	\$100.00	HP
VF210	VFD on Condenser Fans - Low Temp Refrigeration (max 32° F) (excluding grocery stores) <sup>(2)</sup>	\$120.00	HP
VF211	VFD on Pool Circulation Pumps up to 50 HP	\$200.00	HP
VF212	VFD on Process Cooling Tower Fans <sup>(1,3)</sup>	\$40.00	HP
VF213	VSD on Industrial Vacuum Pump Systems up to 25 HP	\$20.00	HP

<sup>(2)</sup>Measure may be eligible for New Construction applications if variable speed control is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

<sup>(3)</sup>Must submit a completed [Variable Frequency Drive Information Worksheet](#) (see Appendix) with the Pre-Notification Application, and if specified (see Incentive Catalog), must complete the power monitoring specified on the VFD Information Worksheet and submit the data (kW).

VFD Application (See Above)	Installation Type (I)	Control Before VFD (II)	VFD Control Variable (III)	Incentive (see above) (A)	Controlled Motor Size (HP) (B)	# of Motors (C)	Total Incentive (A x B x C)



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### VFD Installation Type (I)

Code	Description	Code	Description
SFA	HVAC Supply Air Fan	CDWP	Condenser Water Pump
RFA	HVAC Return Air Fan	CW	Chilled Water Pump
BEF	Building Exhaust Fan	WSP	Domestic Water Pump
MAF	Makeup Air Fan	FWP	Boiler Feedwater Pump
CTF	Cooling Tower Fan	HW	Hydronic HVAC Pump
BDF	HVAC Boiler Draft Fan	PP	Pool Pump
FM	Other Fan (Specify):	PM	Other Pump (Specify):

### Control Before VFD (II)



Code	Description
DD	Discharge Damper
IGV	Inlet Guide Vanes
OCV	Outlet Control/Throttle Valve
BV	Bypass
ONF	ON/OFF
MISC	Other (Specify):

### VFD Control Variable (III)

Code	Description
Temp	Temperature
P	Pressure
Flow	Volume Flow Rate
Misc	Variable Input

**Subtotal VFD Incentive - Page 2**

## Variable Frequency Drives (VFD)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Integrated Variable Speed Motor (e.g. ECM) on Fans

(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit	Motor Size (HP) (B)	# of Motors (C)	Total Incentive (A x B x C)
VF301	Integrated Variable Speed Motor (e.g. ECM) on Furnace, UV, FCU, and Light Duty AHU Fans (up to 7.5 HP)*	\$100.00	HP			
VF302	Integrated Variable Speed Motor (e.g. ECM) on RTU or Grocery Store Refrigeration System Exterior Condenser Fans*	\$30.00	HP			

\*Measure may be eligible for New Construction applications if variable speed control or an ECM is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

### Integrated Variable Speed Motor (e.g. ECM) on Pumps

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	Motor Size (Watts)	# of Motors	Total Incentive
VF303a	ECM on Domestic Hot Water Recirculation Pumps	< 100 watts**	\$100.00	EC Motor		
VF303b		100 to 500 watts**	\$250.00	EC Motor		
VF303c		> 500 watts**	\$500.00	EC Motor		
VF304a	ECM on Hydronic Heating Circulation Pumps*	< 100 watts**	\$50.00	EC Motor		
VF304b		100 to 500 watts**	\$150.00	EC Motor		
VF304c		> 500 watts**	\$450.00	EC Motor		
VF305a	ECM on Chilled Water Circulation Pumps*	< 100 watts**	\$25.00	EC Motor		
VF305b		100 to 500 watts**	\$100.00	EC Motor		
VF305c		> 500 watts**	\$200.00	EC Motor		

\*Measure may be eligible for New Construction applications if variable speed control or an ECM is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

\*\*1HP = 745.7 watts (e.g. a 1/16 HP motor is 46.6 watts).

Subtotal VFD Incentive - Page 3

Total VFD Incentive



# Compressed Air

Check the [Buy Michigan Box](#) only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This   means measure may qualify for New Construction.

## Supply Side Measures

### Air Compressors (Pre-Notification Required)

(Consumers Energy Electric Customers unless otherwise noted)

ID	New Air Compressor Type	Qualified New Air Compressor Size	New System Configuration	Qualified New Air Compressor Utilization	Estimated New Air Compressor Utilization	Incentive	Unit	# of Units	Total Incentive
CA101	Variable Speed Drive (VSD) Air Compressor	50 HP to 500 HP	Single Air Compressor	≥ 6,000 hrs/yr		\$170.00	HP		
CA102				2,000 to 5,999 hrs/yr		\$100.00	HP		
CA103			Multiple Air Compressors	≥ 7,200 hrs/yr		\$200.00	HP		
CA104				4,000 to 7,199 hrs/yr		\$150.00	HP		
CA105	Add Variable Speed Drive (VSD) to Air Compressor	50 HP to 300 HP	Single Air Compressor	6,000 to 7,199 hrs/yr		\$75.00	HP		
CA106			Multiple Air Compressors	≥ 7,200 hrs/yr		\$100.00	HP		
CA107a	Variable Speed Drive (VSD) Air Compressor	< 50 HP	Single Air Compressor or Multiple Air Compressors	Continuous		\$200.00	HP		
CA107b				≥ 3 Shifts, 5 days/week		\$150.00	HP		
CA107c				≥ 2 Shifts, 5 days/week		\$100.00	HP		
CA107d				≥ 1 Shift, 5 days/week		\$50.00	HP		
CA108	Variable Displacement (VD) Air Compressor	≥ 50 HP	Single Air Compressor	≥ 4,000 hrs/yr		\$35.00	HP		
CA109	Two-Stage Air Compressor (VSD/VD/LNL Type)	≥ 50 HP	Single Air Compressor or Multiple Air Compressors	≥ 4,000 hrs/yr		\$20.00	HP		

#### Flow Control Type for Existing Air Compressors (check all that apply)

- Inlet Modulation (IM)       Load/No-Load (LNL)  
 Variable Displacement (VD)       Variable Speed Drive (VSD)

#### Existing Compressed Air System Configuration

- Single Air Compressor System  
 Multiple Air Compressor System

### Compressed Air Dryers (Pre-Notification Required)

(Consumers Energy Electric Customers unless otherwise noted)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
CA110	Refrigerated Cycling Thermal Mass Compressed Air Dryer	\$1.00	SCFM		
CA111	Refrigerated Cycling Variable Speed Drive Compressed Air Dryer	\$3.50	SCFM		
CA112	Refrigerated Cycling Digital Scroll Compressed Air Dryer	\$3.00	SCFM		
CA113	Refrigerated Non-Cycling Air Dryer replacing Desiccant Air Dryer (≥ 50 HP System)	\$4.00	SCFM		
CA114	Heated Blower Purge Desiccant Compressed Air Dryer with Dew Point Control	\$4.00	SCFM		
CA115	Desiccant Compressed Air Dryer with Dew Point Sensor Control	\$8.00	SCFM		
CA116	Heat of Compression Desiccant Compressed Air Dryer (≥ 50 HP System)	\$6.50	SCFM		

#### Replaced Compressed Air Dryer Type (check all that apply)



- Desiccant       Heatless       Refrigerated  
 Timed       Heated       Non-Cycling  
 Dew Point Control       Blower Purge       Cycling

#### Flow Control Type for Air Compressor(s) Served by New Compressed Air Dryer (check all that apply)

- LNL, VD or VSD Air Compressor(s)  
 Inlet Modulation (IM) Air Compressor(s)


**Subtotal Compressed Air Incentive - Page 1**

## Compressed Air

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Compressed Air Supply Optimization (\*Pre-Notification Required)

(Consumers Energy Electric Customers unless otherwise noted)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
CA117	Air Recycling Pneumatic Valve ( $\geq 60$ psig), $\geq 4,000,000$ cycles per year	\$35.00	Valve			<input type="checkbox"/>
CA118	Air Recycling Pneumatic Valve ( $\geq 60$ psig), 2,000,000 to 3,999,999 cycles per year	\$20.00	Valve			<input type="checkbox"/>
CA119	Low Pressure Drop Compressed Air Filter ( $\geq 50$ HP System)	\$7.50	HP			<input type="checkbox"/>
CA120	Compressed Air Pressure-Flow Controller*	\$10.00	HP			<input type="checkbox"/>
CA121	Air Compressor Outdoor Air Intake ( $\geq 50$ HP and $\geq 80$ psig System)*	\$14.51	HP			<input type="checkbox"/>
CA122	Air Compressor Waste Heat Recovery (Consumers Energy Natural Gas Customers)*	\$50.00	HP			<input type="checkbox"/>
CA123a	Compressed Air Storage Tank ( $> 90$ psig)*	Increase from $\leq 1$ gal/CFM to $\geq 3$ gal/CFM	HP			<input type="checkbox"/>
CA123b		Increase from $\leq 3$ gal/CFM to $\geq 5$ gal/CFM	HP			<input type="checkbox"/>
CA123c		Increase from $\leq 5$ gal/CFM to $\geq 10$ gal/CFM	HP			<input type="checkbox"/>
CA124	Correct Sizing Air Compressor (Single Air Compressor System) (Per HP Reduced)**	\$95.00	HP			<input type="checkbox"/>

\*\*Must submit completed [Compressed Air Correct Sizing Worksheet](#) with the Pre-Notification Application (see Appendix).

## Demand Side Measures


### Compressed Air Energy Audit and Leak Repair ( $\geq 10$ HP System)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
CA201	Compressed Air Energy Audit	\$15.00	HP		
CA202	Compressed Air Energy Audit with VSD Air Compressor	\$20.00	HP		
CA203	Compressed Air Energy Audit with Metered Flow	\$25.00	HP		
CA204	Compressed Air Energy Audit with Metered Flow and VSD	\$30.00	HP		
CA205	Compressed Air Leak Repair	\$7.50	HP		
CA206	Compressed Air Leak Repair with VSD Air Compressor	\$10.00	HP		


### Compressed Air Demand Reduction (\*Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
CA207	Compressed Air Zero-Loss Condensate Drain, Electronic Sensor Style	\$300.00	Drain			<input type="checkbox"/>
CA208	Compressed Air Zero-Loss Condensate Drain, Mechanical Float Style	\$300.00	Drain			<input type="checkbox"/>
CA209	Pressure Sensing Vortex Vacuum Generator	\$20.00	CFM			<input type="checkbox"/>
CA210	Pneumatic Hand Tool replaced with Corded Electric Hand Tool*	\$100.00	Tool			<input type="checkbox"/>
CA211	Pneumatic Hand Tool replaced with Cordless Electric Hand Tool*	\$70.00	Tool			<input type="checkbox"/>
CA212	Pneumatic Motor replaced with Electric Motor*	\$100.00	HP			<input type="checkbox"/>
CA213	Low Pressure Air Blower System Replacing Compressed Air Blow-Off Application ( $> 80$ psig)*	\$450.00	HP (Air Blower)			<input type="checkbox"/>

### Compressed Air Engineered Nozzles ( $\geq 1,000$ hrs./yr.) (Pre-Notification Required)



(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	Hours of Operation	Orifice Diameter (Inches)	# of Units	Total Incentive	
	Compressed Air Engineered Nozzle	\$15.00	Nozzle					<input type="checkbox"/>
	Compressed Air Engineered Nozzle	\$15.00	Nozzle					<input type="checkbox"/>

Subtotal Compressed Air Incentive - Page 2

Total Compressed Air Incentive

## Miscellaneous Electric

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Power Management

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
ME101	Advanced Power Strips (Tier 1)	\$4.00	Unit		
ME102	Network Power Management Software	\$12.00	Per PC Controlled		
ME103	Beverage Vending Machine Miser	\$65.00	Miser		
ME104	Engine Block Heater Controller	\$100.00	Heater		
ME105	Drinking Water Cooling Miser	\$50.00	Miser		
ME106	Snack Vending Machine Miser	\$25.00	Miser		

### Miscellaneous

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
ME107	High-Efficiency Electric Hand Dryers	\$100.00	Unit		
ME108	Cogged V-Belt Drives (1 to 25 HP)	\$5.00	HP		
ME109	Cogged V-Belt Drives (26 to 500 HP)	\$2.50	HP		

### High Efficiency Rectifiers for Data Center, Telecom and Computer Room Applications ( $\leq 200$ Amps) (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
ME110	HE Rectifiers (94% - 96.9% Efficiency) - CRAC with Economizer	\$75.00	kW of Load		
ME111	HE Rectifiers (94% - 96.9% Efficiency) - CRAC without Economizer	\$55.00	kW of Load		
ME112	HE Rectifiers ( $\geq 97\%$ Efficiency) - CRAC with Economizer	\$125.00	kW of Load		
ME113	HE Rectifiers ( $\geq 97\%$ Efficiency) - CRAC without Economizer	\$100.00	kW of Load		

### High Efficiency Pumps: Pump Energy Index (PEI) ( $\leq 50$ HP) (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure		Incentive (E)		Unit
ME114a	High Efficiency Pumps: Pump Energy Index (PEI)		Standard Hours ( $\geq 2,000$ )	\$0.15	kWh
ME114b			Low Hours ( $< 2,000$ )	\$0.10	kWh

ID	Pump Manufacturer	Model #	Motor HP (A)	System Type <sup>(1)</sup>	Baseline PEI <sup>(2)</sup> (B)	PEI <sup>(3)</sup> (Efficient) (C)	Speed (RPM)	Pump Class <sup>(4)</sup>	# of Pumps (D)	Incentive (see above) (E)	Total Incentive <sup>(5,6)</sup>

<sup>(1)</sup>System Type: Constant or Variable speed.

<sup>(2)</sup>Baseline PEI: see Incentive Catalog.

<sup>(3)</sup>Efficient PEI: see Hydraulic Institute – ER Portal.

<sup>(4)</sup>Pump Class: End Suction Frame Mounted (ESFM), End Suction Close Coupled (ESCC), In-Line (IL), Radially Split Multi-Stage Vertical In-Line (RSV) or Vertical Turbine – Submersible (VTS).


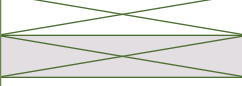
<sup>(5)</sup>ME114a Incentive [Standard Hours ( $\geq 2,000$ )]:  $(\$) = (PEI_{baseline} (B) - PEI_{efficient} (C)) \times HP (A \times D) \times 27.5 \text{ kWh/HP} / 0.01 \text{ PEI} \times \text{incentive } (\$0.15/\text{kWh}) (E)$

<sup>(6)</sup>ME114b Incentive [Low Hours ( $< 2,000$ )]:  $(\$) = (PEI_{baseline} (B) - PEI_{efficient} (C)) \times HP (A \times D) \times 11 \text{ kWh/HP} / 0.01 \text{ PEI} \times \text{incentive } (\$0.10/\text{kWh}) (E)$

**Total Miscellaneous Electric Incentive**

**Industrial Process Improvement (Pre-Notification Required)**

(Consumers Energy Electric Customers unless otherwise noted)

ID	Measure	Annual Production Rate (lb/yr/ton)	Incentive	Unit	# of Units	Total Incentive
MA101a	High-Efficiency Plastic Injection Molding Machines	All-Electric		\$25.00	Metric Ton*	
MA101b		Hybrid		\$25.00	Metric Ton*	
MA101c		VSD or Servo Hydraulic	≥ 1,000 lb./yr./ton	\$18.00	Metric Ton*	
MA101d			≥ 600 and < 1,000 lb./yr./ton	\$15.00	Metric Ton*	
MA101e			≥ 400 and < 600 lb./yr./ton	\$7.50	Metric Ton*	
MA102a	Fiber Laser Cutting Machine Operating ≥ 4,000 hr/yr replacing CO2 Laser Cutting Machine Operating ≥ 3 Shifts, 5 days/week		\$4,000.00	Output kW		
MA102b	Fiber Laser Cutting Machine Operating 2,500 to 3,999 hr/yr replacing CO2 Laser Cutting Machine Operating < 3 Shifts, 5 days/week		\$2,500.00	Output kW		
MA103	Process Dryer Flow Rate Control with Relative Humidity Sensor (Dryer Exit Temperature ≥ 150°F) (Consumers Energy Natural Gas Customers)		\$4.00	CFM Reduced		
MA104	Dew Point Sensor Control for Desiccant Column Plastic Pellet Dryer		\$50.00	kW of the Heating Element		

\*1 Metric Ton = 1.1023 Standard Tons (e.g. 50 Standard Tons is 45.4 Metric Tons).

**Process Ventilation Reduction (Pre-Notification Required)**



ID	Measure	Incentive	Unit	# of Units	Total Incentive
MA105	Process Ventilation Reduction (> 5,000 CFM Reduction) (Facility Heating Savings) (Consumers Energy Natural Gas Customers)	\$1.50	CFM Reduced		
MA106	Process Ventilation Reduction (> 5,000 CFM Reduction) (Heating Season Fan Savings) (Consumers Energy Electric Customers)**	\$0.15	CFM Reduced		
MA107	Process Ventilation Reduction (> 5,000 CFM Reduction) (Heating Season Fan Savings) (Consumers Energy Electric Customers)**	\$175.00	HP Reduced		
MA108	Decreasing Oven Exhaust Flow Rate (Natural Gas Heat) (200°F to 600°F)	\$0.75	CFM Reduced		
MA109	Decreasing Oven Exhaust Flow Rate (Natural Gas Heat) (601°F to 1,200°F)	\$1.25	CFM Reduced		
MA110	Decreasing Oven Exhaust Flow Rate (Electric Heat) (200°F to 600°F)	\$20.00	CFM Reduced		
MA111	Decreasing Oven Exhaust Flow Rate (Electric Heat) (601°F to 1,200°F)	\$30.00	CFM Reduced		

\*\*Pick MA106 or MA107 per facility.

**Process Energy Recovery (Pre-Notification Required)**


(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
MA112a	Retrofit RTO (Recuperative or Regenerative Thermal Oxidizers)	2 Shifts, 5 days/week	\$75.00	CFM	
MA112b		3 Shifts, 5 days/week	\$100.00	CFM	
MA113a	New Construction RTO (Regenerative Thermal Oxidizers only)	2 Shifts, 5 days/week	\$20.00	CFM	
MA113b		3 Shifts, 5 days/week	\$25.00	CFM	

Check the **Buy Michigan Box**  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.


**Miscellaneous Industrial Electric (\*Pre-Notification Required)**

(Consumers Energy Electric Customers)

ID	Measure		Incentive	Unit	# of Units	Total Incentive	
MA114a	Smart Battery Charging Stations [new or replacement 3-phase high frequency battery chargers for electric vehicles (e.g. forklift, Hi-Lo)]	1 Shift, 5 days/week*	\$200.00	Unit			<input type="checkbox"/>
MA114b		2 Shifts, 5 days/week*	\$400.00	Unit			<input type="checkbox"/>
MA114c		Continuous Operation*	\$600.00	Unit			<input type="checkbox"/>
MA115	Barrel Wrap Insulation for Plastic Injection Molding and Extrusion Machines		\$100.00	Square Foot			<input type="checkbox"/>
MA116	Inverter Welding Machines*		\$500.00	Welder			<input type="checkbox"/>

**Process Waste Heat Recovery for 100% Outside Air Makeup Air Heating (Pre-Notification Required)**

(Consumers Energy Natural Gas Customers)



ID	Measure		Incentive	Unit	# of Units	Total Incentive	
MA201a	Process Waste Heat Recovery System for Direct-fired 100% Outside Air MAU**	2 Shifts, 7 days/week	\$0.60	CFM Reduced			<input type="checkbox"/>
MA201b		3 Shifts, 7 days/week	\$1.00	CFM Reduced			<input type="checkbox"/>
MA202a	Process Waste Heat Recovery System for Indirect-fired 100% Outside Air MAU**	2 Shifts, 7 days/week	\$0.70	CFM Reduced			<input type="checkbox"/>
MA202b		3 Shifts, 7 days/week	\$1.25	CFM Reduced			<input type="checkbox"/>

\*\*Measure may be eligible for New Construction applications if waste heat recovery is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

**Subtotal Manufacturing Incentive - Page 2**











**Total Manufacturing Incentive**

# HVAC Equipment

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

## Split and Unitary Air Conditioning Systems

(Consumers Energy Electric Customers)


ID	Equipment Type	Size Category	Qualifying Efficiency	Incentive (C)	Unit	ID	Equipment Type	Size Category	Qualifying Efficiency	Incentive (C)	Unit
 HV101a	Split Air Conditioning Systems (including Heat Pumps)	< 5.4 tons	14.3 SEER2 (15 SEER)	\$30.00	Ton	 HV101f	Unitary Air Conditioning Systems (e.g. RTU)	< 5.4 tons	15.2 SEER2 (16 SEER)	\$30.00	Ton
 HV101b		≥ 5.4 to < 11.25 tons	12.0 EER & 19.0 IEER	\$40.00	Ton	 HV101g		≥ 5.4 to < 11.25 tons	12.0 EER & 19.0 IEER	\$40.00	Ton
 HV101c		≥ 11.25 to < 20 tons	12.0 EER & 16.8 IEER	\$40.00	Ton	 HV101h		≥ 11.25 to < 20 tons	12.0 EER & 16.8 IEER	\$40.00	Ton
 HV101d		≥ 20 to 63 tons	12.5 EER & 15.5 IEER	\$30.00	Ton	 HV101i		≥ 20 to 63 tons	12.5 EER & 15.5 IEER	\$30.00	Ton
 HV101e		> 63 tons	10.2 EER	\$30.00	Ton	 HV101j		> 63 tons	10.2 EER	\$30.00	Ton

ID (see above)	Manufacturer and Model Number	SEER2*/EER	IEER	Unit Size (Tons) (A)	# of Units (B)	Incentive (see above) (C)	Total Incentive (AxBxC)

\*Enter SEER2 efficiency for HV101a & HV101f. To convert SEER to SEER2 efficiency, divide SEER efficiency by 1.05 (e.g. 17 SEER / 1.05 = 16.19 SEER2).

## High-Efficiency Data Center, Telecom and Computer Room Air Conditioning Systems (CRAC)

(Consumers Energy Electric Customers)

ID	New System Type	Rating Condition**	Min SCOP	Incentive Per MBH (A)	Actual SCOP	Unit Size (MBH) (B)	# of Units (C)	Total Incentive (AxBxC)
 HV102a	High-Efficiency Data Center, Telecom, and Computer Room Air Conditioning Systems (CRAC)	Air Cooled	Class 1	2.20	\$20.00			
 HV102b		Water Cooled	Class 1	2.51	\$20.00			
 HV102c		Glycol Cooled	Class 1	2.08	\$20.00			
 HV102d		Air Cooled	Class 2	2.78	\$20.00			
 HV102e		Water Cooled	Class 2	2.97	\$20.00			
 HV102f		Glycol Cooled	Class 2	2.53	\$20.00			
 HV102g		Air Cooled	Class 3	2.82	\$20.00			
 HV102h		Water Cooled	Class 3	2.73	\$20.00			
 HV102i		Glycol Cooled	Class 3	2.47	\$20.00			



\*\*New System Operating Return Air Temperature Equipment Class:

Class 1 - Temperature ≤ 75°F

Class 2 - Temperature > 75°F to ≤ 85°F

Class 3 - Temperature > 85°F to ≤ 95°F

**Subtotal HVAC Equipment Incentive - Page 1a**

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

## Data Room Hot/Cold Aisle Configuration Air Conditioning Systems (CRAC) (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	New System Type	Pre-Retrofit System Rating Condition*	Return Air Temp Increase	Incentive per MBH (A)	Unit Size (MBH) (B)	# of Units (C)	Total Incentive (AxBxC)
HV103a	Data Room Hot/Cold Aisle Configuration Air Conditioning Systems (CRAC)	Air Cooled	Class 1	5°F to 9°F	\$10.00		
HV103b		Air Cooled	Class 2	5°F to 9°F	\$10.00		
HV103c		Glycol Cooled	Class 1	5°F to 9°F	\$10.00		
HV103d		Glycol Cooled	Class 2	5°F to 9°F	\$10.00		
HV103e		Water Cooled	Class 1	5°F to 9°F	\$10.00		
HV103f		Water Cooled	Class 2	5°F to 9°F	\$10.00		
HV103g		Air Cooled	Class 1	At Least 10°F	\$20.00		
HV103h		Air Cooled	Class 2	At Least 10°F	\$20.00		
HV103i		Glycol Cooled	Class 1	At Least 10°F	\$20.00		
HV103j		Glycol Cooled	Class 2	At Least 10°F	\$20.00		
HV103k		Water Cooled	Class 1	At Least 10°F	\$20.00		
HV103l		Water Cooled	Class 2	At Least 10°F	\$20.00		

\*Pre-Retrofit System Operating Return Air Temperature Equipment Class:

Class 1 - Temperature ≤ 75°F

Class 2 - Temperature > 75°F to ≤ 85°F

## Packaged Terminal and Ductless Air Conditioners and Heat Pumps



(Consumers Energy Electric Customers)

ID	Equipment Type	Size	Incentive	Unit	Unit Size (Tons)**	# of Units	Total Incentive
HV104a	Packaged Terminal Air Conditioner (PTAC)	< 7,000 Btu/hr (0.583 tons) Min. 13.1 EER	\$50.00	Unit			
HV104b		7,000 to 15,000 Btu/hr (1.25 tons) Min. 11.8 EER	\$60.00	Unit			
HV104c		> 15,000 to 24,000 Btu/hr (2.0 tons) Min. 10.5 EER	\$70.00	Unit			
HV105a	Packaged Terminal Heat Pump (PTHP)	< 7,000 Btu/hr (0.583 tons) Min. 13.1 EER	\$30.00	Unit			
HV105b		7,000 to 15,000 Btu/hr (1.25 tons) Min. 11.8 EER	\$35.00	Unit			
HV105c		> 15,000 to 24,000 Btu/hr (2.0 tons) Min. 10.5 EER	\$40.00	Unit			
HV106	Ductless Air Conditioning or Air-Source Heat Pump System***		\$50.00	Unit			

\*\*1 Ton = 12,000 Btu/hr (e.g. 14,000 Btu/hr = 1.2 Tons).

\*\*\*New ductless air conditioning system (no heat pump) efficiency must equal or exceed 20 SEER2 or 21 SEER. New ductless air-source heat pump system efficiency must equal or exceed 20 SEER2 or 21 SEER, and 8.4 HSPF2 or 10 HSPF.

# HVAC Equipment

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## Ground-Loop Heat Pumps

(Consumers Energy Electric Customers)

ID	Equipment Type	Size	\$/Ton Base Incentive ( $\geq 17$ EER or 3.5 COP) (A)	\$/Ton Incremental Incentive per 0.1 EER or COP $>$ Min. Eff. (B)	# of Units (C)	Unit Size (Tons) (D)	EER (E)*	COP (F)*	Base Incentive (G) = (AxCxD)	Incremental Incentive (H)**	Total Incentive (G+H)
HV201	Ground-Loop Heat Pumps	< 135 MBH (11.25 tons)	\$30.00	\$1.00							

\*Enter EER if a cooling (air conditioning) application, COP if a heating application, and both EER and COP if both a cooling and heating application.

\*\*Cooling Application:  $H = B \times [(E - 17 \text{ EER}) / 0.1]$ , Heating Application:  $H = B \times [(F - 3.5 \text{ COP}) / 0.1]$ , Both:  $H = B \times [((E - 17 \text{ EER}) + (F - 3.5 \text{ COP})) / 0.1]$

## Humidification (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Equipment Type	Incentive	Unit	Number of Humidifiers	Total Area Served (ft <sup>2</sup> )	Total Incentive
HV202	Ultrasonic Humidifiers	\$0.10	Square Foot			

## High-Efficiency Air- and Water-Cooled Chillers

(Consumers Energy Electric Customers)

ID	Equipment Type	Unit Size (Tons)	Unit	Path A - FLV Reduction		Path B - IPLV Reduction		\$/Ton Base (F)	\$/0.01 Red. (G)
				FLV (E)	IPLV	FLV	IPLV (H)		
HV203a	Air-Cooled Chillers	< 150 tons	kW/ton	1.19	0.88	1.24	0.76	\$7.00	\$2.00
HV203b		$\geq 150$ tons	kW/ton	1.19	0.86	1.24	0.75	\$7.00	\$2.00
HV204a	Water-Cooled Positive Displacement (Screw) Chillers	< 75 tons	kW/ton	0.75	0.60	0.78	0.50	\$10.00	\$2.00
HV204b		$\geq 75$ tons and < 150 tons	kW/ton	0.72	0.56	0.75	0.49	\$10.00	\$2.00
HV204c		$\geq 150$ tons & < 300 tons	kW/ton	0.66	0.54	0.68	0.44	\$10.00	\$2.00
HV204d		$\geq 300$ tons & < 600 tons	kW/ton	0.61	0.52	0.63	0.41	\$10.00	\$2.00
HV204e		$\geq 600$ tons	kW/ton	0.56	0.50	0.59	0.38	\$10.00	\$2.00
HV205a	Water-Cooled Centrifugal Chillers	< 150 tons	kW/ton	0.61	0.55	0.70	0.44	\$10.00	\$2.00
HV205b		$\geq 150$ tons & < 300 tons	kW/ton	0.61	0.55	0.64	0.40	\$10.00	\$2.00
HV205c		$\geq 300$ tons & < 400 tons	kW/ton	0.56	0.52	0.60	0.39	\$10.00	\$2.00
HV205d		$\geq 400$ tons & < 600 tons	kW/ton	0.56	0.50	0.59	0.38	\$10.00	\$2.00
HV205e		$\geq 600$ tons	kW/ton	0.56	0.50	0.59	0.38	\$10.00	\$2.00

Equipment Type	Manufacturer and Model #	Unit Size (Tons) (A)	FLV (B)	IPLV (C)	# of Chillers (D)	Path	\$/Ton (F)	\$/0.01 Reduction (G)	Base Incentive	Incremental Incentive	Total Incentive***
HV201a	Air Cooled Reciprocating Chiller	100	1.15	0.75	1	Path A	\$7.00	\$2.00	\$700.00	\$800.00	\$1,500.00
<b>Total Incentive</b>											

\*\*\*Total incentive is determined by summing the qualifying base incentive and maximum incremental incentive. The incremental incentive rate is per 0.01 kW/ton FLV or IPLV reduction from the required minimum efficiency, and the maximum incremental incentive is applied, Path A or Path B.

• For example: One 100-ton air-cooled chiller at 0.75 kW/ton IPLV and 1.15 kW/ton FLV

**Base incentive:**  $(A \times D \times F)$  or 100 tons  $\times$  1  $\times$  \$7/ton = \$700



**Path A - Full load incentive:**  $(A \times D \times [(E - B)/0.01] \times G)$  or (100 tons  $\times$  1  $\times$  [(1.19 - 1.15)/0.01]  $\times$  \$2.00 = \$800

**Path B - Part load incentive:**  $(A \times D \times [(H - C)/0.01] \times G)$  or (100 tons  $\times$  1  $\times$  [(0.76 - 0.75)/0.01]  $\times$  \$2.00 = \$200

**Total Incentive:** Base Incentive + Maximum (Path A, Path B) or \$700 + Maximum (\$200, \$800) = \$1,500

Subtotal HVAC Equipment Incentive - Page 2



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## Industrial Fans (Pre-Notification Required)

ID	Fan Type	Incentive	Unit	# of Units	Total Incentive
HV301	High-Volume, Low-Speed Fans (≥ 16-foot Fan Blade Diameter) (Consumers Energy Electric Customers)	\$400.00	Fan		
HV302	De-stratification Fans (Floor-to-Ceiling Distance at least 20 feet) (Consumers Energy Natural Gas Customers)	\$0.20	Square Foot		

## Space and Process Heating

(Consumers Energy Natural Gas Customers unless otherwise stated)

ID	HVAC Hydronic Boiler Type*	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)
HV303	HVAC Hydronic Boilers - Level 1 (88% to 89.9% Efficiency)	\$1.50	MBH			
HV304	HVAC Hydronic Boilers - Level 2 (at least 90% Efficiency)	\$2.00	MBH			

ID	HVAC Steam or Process Boiler Type*	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)
HV305	Process Steam Boilers (at least 82% Efficiency)	\$1.25	MBH			
HV306	HVAC Steam Boilers (> 300 MBH) (at least 82% Efficiency)	\$2.00	MBH			
HV307	Process Hydronic Boilers (at least 82% Efficiency)	\$1.20	MBH			
HV308	High-Efficiency Pool Water Heaters (at least 84% Efficiency)	\$2.00	MBH			

\*Efficiency basis varies between AFUE, thermal efficiency and combustion efficiency depending on the capacity of the boiler (see Incentive Catalog).

ID	Unit Heater Type or Air Handling Unit Type	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)
HV309	High-Efficiency Unit Heaters (92% to 94.9% AFUE)	\$3.99	MBH			
HV310	High-Efficiency Unit Heaters (at Least 95% AFUE)	\$7.91	MBH			
HV311	Direct-Fired Makeup Air Handling Units	\$1.50	MBH			



ID	Unitary Single Package Heating Unit Type	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)
HV312	Condensing Rooftop Heating Units (e.g. RTU) (at least 92% AFUE)	\$25.00	MBH			

ID	Infrared Heater Customer Type (Pre-Notification Required)	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)
HV313	Infrared Heaters (Consumers Energy Electric and Natural Gas Customers)	\$9.00	MBH			
HV314	Infrared Heaters (Consumers Energy Natural Gas Customers)	\$5.00	MBH			

ID	Furnace Type	Incentive (A)	Unit	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxB)
HV315	High-Efficiency Furnaces (≤ 120 MBH, 92% to 94.9% AFUE)	\$300.00	Furnace			
HV316	High-Efficiency Furnaces (> 120 MBH, 92% to 94.9% AFUE)	\$350.00	Furnace			
HV317	High-Efficiency Furnaces (≤ 120 MBH, at least 95% AFUE)	\$325.00	Furnace			
HV318	High-Efficiency Furnaces (> 120 MBH, at least 95% AFUE)	\$400.00	Furnace			








Subtotal HVAC Equipment Incentive - Page 3

# HVAC Equipment

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## Domestic Water Heating



(Consumers Energy Natural Gas Customers unless otherwise stated)

ID	Domestic Water Heater Type	Incentive	Unit (Input)	Unit Size (MBH)	# of Units	Total Incentive	
HV401	High-Efficiency Domestic Water Heating Boilers (> 75 MBH, ≥ 94% Thermal Efficiency)	\$1.50	MBH				<input type="checkbox"/>
HV402a	High-Efficiency Tank-Style Domestic Water Heaters (≤ 55 Gallons)	≤ 75 MBH, 0.64 to 0.679 UEF	Heater				<input type="checkbox"/>
HV402b		≤ 75 MBH, ≥ 0.68 UEF	Heater				<input type="checkbox"/>
HV402c	High-Efficiency Tank-Style Domestic Water Heaters (> 55 Gallons, ≤ 75 MBH, ≥ 0.80 UEF)	\$50.00	Heater				<input type="checkbox"/>
HV403	High-Efficiency Tank-Style Domestic Water Heaters (< 140 Gallons, > 75 MBH, ≥ 94% Thermal Efficiency)	\$275.00	Heater				<input type="checkbox"/>
HV404a	High-Efficiency Tankless Domestic Water Heaters	Natural Gas, ≥ 0.87 UEF	Heater				<input type="checkbox"/>
HV404b		Electric, ≥ 0.95 UEF (Consumers Energy Electric Customers)	\$50.00	Heater			

Subtotal HVAC Equipment Incentive - Page 4

Total HVAC Equipment Incentive

## HVAC System Automation (Pre-Notification Required)


ID	Measure	Incentive	Unit	# of Units	Total Incentive	
BA101a	Web-Based Building Automation Systems (BAS) (Temperature Setback in Non-Occupied Periods)	Air Conditioning (Consumers Energy Electric Customers)	\$0.15	Square Foot		<input type="checkbox"/>
BA101b		Non-A/C Schools (Consumers Energy Electric Customers)	\$0.15	Square Foot		<input type="checkbox"/>
<b>Building Automation System Total Incentive</b>						
<b>Building Automation System Awarded Incentive (Maximum \$75,000)</b>						
BA102	Light Commercial Building Automation Systems (BAS) (Temperature Setback in Non-Occupied Periods)	Air Conditioning (Consumers Energy Electric Customers)	\$0.15	Square Foot		<input type="checkbox"/>
<b>Building Automation System Total Incentive</b>						
<b>Building Automation System Awarded Incentive (Maximum \$35,000)</b>						
BA103a	Optimal Start on Air Handling Units	Air Conditioning and Natural Gas Heat (Consumers Energy Electric & Natural Gas Customers)	\$0.30	Square Foot		<input type="checkbox"/>
BA103b		Natural Gas Heat (Consumers Energy Natural Gas Customers)	\$0.15	Square Foot		<input type="checkbox"/>
BA103c		Air Conditioning (Consumers Energy Electric Customers)	\$0.15	Square Foot		<input type="checkbox"/>
<b>Optimal Start Total Incentive</b>						
<b>Optimal Start Awarded Incentive (Maximum \$50,000)</b>						
ID	Measure (Pre-Notification Required)	Incentive	Unit	# of Units	Total Incentive	
BA104	BAS for Manufacturing HVAC Fans (Consumers Energy Electric Customers)	\$150.00	HP			<input type="checkbox"/>
BA105	Parking Garage Exhaust Fan Carbon Monoxide (CO) Control (≥ 10,000 CFM System) (Consumers Energy Electric Customers)	\$300.00	HP			<input type="checkbox"/>
BA106	Hydronic HVAC Pump Control (Consumers Energy Electric Customers)	\$80.00	HP			<input type="checkbox"/>
BA107	Critical Zone Supply Air Reset Control (Consumers Energy Electric Customers)	\$25.00	Ton			<input type="checkbox"/>
BA108	Air-Side Economizer (Consumers Energy Electric Customers)	\$15.00	Ton			<input type="checkbox"/>

## Chilled Water Plant Controls (Pre-Notification Required)

(Consumers Energy Electric Customers)







ID	Measure	Incentive	Unit	# of Units	Total Incentive	
BA109a	Chilled Water Reset Control Strategy (5°F reset)	\$15.00	Ton			<input type="checkbox"/>
BA109b	Chilled Water Reset Control Strategy (10°F reset)	\$30.00	Ton			<input type="checkbox"/>
BA110	Optimized Chiller Plant Sequencing	\$4.00	Ton			<input type="checkbox"/>

## Advanced Single Zone Packaged HVAC Unit (e.g. RTU) Controls (Pre-Notification Required)


ID	Measure	Incentive	Unit	# of Units	Total Incentive	
BA111a	Enhanced Ventilation Control*	Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers)	\$100.00	Ton		<input type="checkbox"/>
BA111b		Natural Gas Heat (Consumers Energy Natural Gas Customers)	\$75.00	Ton		<input type="checkbox"/>
BA111c		Air Conditioning (Consumers Energy Electric Customers)	\$50.00	Ton		<input type="checkbox"/>

\*Measure may be eligible for New Construction applications if demand control ventilation and/or variable speed control is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

## Unitary HVAC Controls (Pre-Notification Required)

ID	Measure	Area (ft <sup>2</sup> )	Incentive	Unit	# of Units	Total Incentive	
BA201a	Hotel Guest Room	Natural Gas Heat (Consumers Energy Natural Gas Customers)		\$80.00	Room Controlled		<input type="checkbox"/>
BA201b	Occupancy Sensors	Electric Heat (Consumers Energy Electric Customers)		\$80.00	Room Controlled		<input type="checkbox"/>
BA202a	Programmable Thermostats	Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Nat. Gas Customers)		\$48.00	Thermostat		<input type="checkbox"/>
BA202b		Natural Gas Heat (Consumers Energy Natural Gas Customers)		\$40.00	Thermostat		<input type="checkbox"/>
BA202c		Air Conditioning (Consumers Energy Electric Customers)		\$8.00	Thermostat		<input type="checkbox"/>
BA203a	Occupancy Sensor Control for Smart Thermostat	Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Nat. Gas Customers)		\$0.04	Square Foot		<input type="checkbox"/>
BA203b		Natural Gas Heat (Consumers Energy Natural Gas customers)		\$0.02	Square Foot		<input type="checkbox"/>
BA203c		Air Conditioning (Consumers Energy Electric Customers)		\$0.02	Square Foot		<input type="checkbox"/>

## Ventilation Controls (Pre-Notification Required)


ID	Measure	Incentive	Unit	# of Units	Total Incentive	
BA204	Demand Control Ventilation for HVAC Systems*	Natural Gas Heat (Consumers Energy Natural Gas Customers)	\$0.10	Square Foot		<input type="checkbox"/>
BA205a	Occupancy Sensor Control for HVAC Systems	Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers)	\$0.08	Square Foot		<input type="checkbox"/>
BA205b		Natural Gas Heat (Consumers Energy Natural Gas Customers)	\$0.04	Square Foot		<input type="checkbox"/>
BA205c		Air Conditioning (Consumers Energy Electric Customers)	\$0.04	Square Foot		<input type="checkbox"/>
BA206a	Demand Control Ventilation and Occupancy Sensor Control for HVAC Systems*	Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers)	\$0.20	Square Foot		<input type="checkbox"/>
BA206b		Natural Gas Heat (Consumers Energy Natural Gas Customers)	\$0.30	Square Foot		<input type="checkbox"/>
BA206c		Air Conditioning (Consumers Energy Electric Customers)	\$0.04	Square Foot		<input type="checkbox"/>
BA207	Occupancy Sensor Controlled Restroom Exhaust Fans (≥ 70 CFM) (Consumers Energy Electric Customers)	\$10.00	Fan			<input type="checkbox"/>

\*Measure may be eligible for New Construction applications if demand control ventilation is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

Subtotal Building Automation Systems Incentive - Page 2

## Boiler Controls (Pre-Notification Required)


(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit (Input)	# of Units	Total Incentive	
BA301a	Optimized Boiler Plant Sequencing	HVAC	MBH			<input type="checkbox"/>
BA301b		Process		\$1.00		
BA302a	Modulating Burner Control*	HVAC	MBH			<input type="checkbox"/>
BA302b		Process		\$1.25		
BA303a	Oxygen Trim Burner Control*	HVAC	MBH			<input type="checkbox"/>
BA303b		Process		\$0.75		
BA304a	Linkageless (Parallel Positioning) Burner Controls*	HVAC	MBH			<input type="checkbox"/>
BA304b		Process		\$0.75		
BA305a	Combination Oxygen Trim and Linkageless Burner Controls*	HVAC	MBH			<input type="checkbox"/>
BA305b		Process		\$1.00		
BA306	Outdoor Reset Control	\$0.70	MBH			<input type="checkbox"/>
BA307	Basic Snow/Ice Melt Controls	\$0.50	Square Foot			<input type="checkbox"/>
BA308	Enhanced Snow/Ice Melt Controls	\$0.60	Square Foot			<input type="checkbox"/>

\*New condensing boilers are not eligible for this measure.

## Makeup Air Handling Unit Burner Controls (Pre-Notification Required)


(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit (Input)	# of Units	Total Incentive	
BA309a	Modulating Burner on Makeup Air Handling Unit (continuous operation)	\$5.00	MBH			<input type="checkbox"/>
BA309b	Modulating Burner on Makeup Air Handling Unit (≥ 100 and < 168 hrs./week)	\$5.00	MBH			<input type="checkbox"/>
BA309c	Modulating Burner on Makeup Air Handling Unit (≥ 50 and < 100 hrs./week)	\$1.00	MBH			<input type="checkbox"/>

**Subtotal Building Automation Systems Incentive - Page 3**


**Total Building Automation Systems Incentive**

### Advanced Air Distribution Systems (Pre-Notification Required)

ID	Measure	Customer Type	Incentive	Unit	# of Units	Total Incentive	
AE101a	Convert Constant Volume AHU to VAV AHU with Hydronic Reheat	Consumers Energy Electric and Natural Gas Customers	\$1.25	Square Foot			<input type="checkbox"/>
AE101b		Consumers Energy Electric Customers	\$0.60	Square Foot			<input type="checkbox"/>
AE101c		Consumers Energy Natural Gas Customers	\$0.25	Square Foot			<input type="checkbox"/>

### HVAC Energy Recovery (Pre-Notification Required)




(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive (A)	Unit	# of Units (B)	Unit Size (CFM) (C)	Total Incentive (AxBxC)	
AE102	Enthalpy Wheel Energy Recovery Units (250 to 50,000 CFM design supply air volume flow rate)*	\$0.40	CFM				<input type="checkbox"/>
AE103	Fixed-Plate Air-to-Air Energy Recovery Units (250 to 50,000 CFM design supply air volume flow rate)*	\$0.35	CFM				<input type="checkbox"/>
AE104	Dust Collector Exhaust Air Energy Recovery (> 1,000 CFM exhaust air volume flow rate reduction)*	\$1.50	CFM				<input type="checkbox"/>

\*Measure may be eligible for New Construction applications if energy recovery is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).


### Boiler Efficiency Improvements (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Stack Temp Decrease	Incentive (A)	Unit (Input)	# of Units (B)	Unit Size (MBH) (C)	Total Incentive (AxBxC)	
AE105a	HVAC Boiler Stack Economizer	80°F to 199°F	\$0.50	MBH				<input type="checkbox"/>
AE105b		≥ 200°F	\$1.00	MBH				<input type="checkbox"/>
AE106a	Process Boiler Stack Economizer	80°F to 199°F	\$0.75	MBH				<input type="checkbox"/>
AE106b		≥ 200°F	\$1.50	MBH				<input type="checkbox"/>
AE107	Waste Heat Recovery for Steam Boiler Makeup Water, Domestic Water, and Process Water Heating		\$10.00	MMBtu/yr. Recovered				<input type="checkbox"/>
AE108	Automatic Boiler Blowdown Reduction		\$0.02	Gal/yr. Reduced				<input type="checkbox"/>

### Refrigeration Equipment Condenser Waste Heat Recovery (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive (A)	Unit	# of Units (B)	Unit Size (Tons) (C)	Total Incentive (AxBxC)	
AE109	Refrigeration Equipment Condenser WH Recovery to Decrease Natural Gas Domestic Water Heating Load	\$200.00	Ton				<input type="checkbox"/>
AE110	Refrigeration Equipment Condenser WH Recovery to Decrease Natural Gas Space Heating Load	\$125.00	Ton				<input type="checkbox"/>

**Subtotal Advanced Air Distribution and Energy Recovery Incentive - Page 1**

### Data Center, Telecom or Computer Room Air Conditioning System (CRAC) Economizer (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	New Economizer Type	Rating Condition*	Incentive	Unit	# of Units	Total Incentive
AE201a	Data Center, Telecom or Computer Room Air Conditioning System (CRAC) Economizer**	Glycol	Class 1	\$60.00	MBH	
AE201b		Glycol	Class 2	\$60.00	MBH	
AE201c		Glycol	Class 3	\$60.00	MBH	
AE202a		Fresh Air	Class 1	\$60.00	MBH	
AE202b		Fresh Air	Class 2	\$60.00	MBH	
AE202c		Fresh Air	Class 3	\$60.00	MBH	
AE203a		Pumped Refrigerant	Class 1	\$60.00	MBH	
AE203b		Pumped Refrigerant	Class 2	\$60.00	MBH	
AE203c		Pumped Refrigerant	Class 3	\$60.00	MBH	
AE204		Air to Air Heat Exchanger	N/A	\$30.00	MBH	

\*New System Operating Return Air Temperature: Class 1 - < 75°F, Class 2 - > 75°F to < 85°F, Class 3 - > 85°F to < 95°F.

\*\*May be eligible for New Construction applications if an economizer is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

### Water-Side Economizer (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Equipment Type	Incentive	Unit	# of Units	Total Incentive
AE205	Water-Cooled Chiller***	\$60.00	Ton		
AE206	Air-Cooled Chiller***	\$150.00	Ton		

\*\*\*May be eligible for New Construction applications if an economizer is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

### HVAC or Process Equipment Condenser Waste Heat Recovery (Pre-Notification Required)

ID	Measure	Customer Type	Incentive	Unit	# of Units	Total Incentive
AE207	Water-Cooled Condenser WH Recovery to Decrease Electric DWH Load****	Consumers Energy Electric Customer	\$400.00	Ton		
AE208	Air-Cooled Condenser WH Recovery to Decrease Electric DWH Load****	Consumers Energy Electric Customer	\$500.00	Ton		
AE209	Water-Cooled Condenser WH Recovery to Decrease Natural Gas DWH Load****	Consumers Energy Natural Gas Customer	\$150.00	Ton		
AE210	Air-Cooled Condenser WH Recovery to Decrease Natural Gas DWH Load****	Consumers Energy Natural Gas Customer	\$200.00	Ton		

\*\*\*\*Peak chiller plant demand must be less than 400 tons to qualify for New Construction applications.



### Operating Room Air Changes per Hour (ACH) Setback (Pre-Notification Required)

ID	Measure	Customer Type	Incentive	Unit	# of Units	Total Incentive
AE211a	Operating Room with 20% to 99.9% Outside Air	Consumers Energy Natural Gas and Electric Customer	\$2.00	Square Foot		
AE211b		Consumers Energy Natural Gas Customer	\$1.00	Square Foot		
AE211c		Consumers Energy Electric Customer	\$1.00	Square Foot		
AE212a	Operating Room with 100% Outside Air	Consumers Energy Natural Gas and Electric Customer	\$3.00	Square Foot		
AE212b		Consumers Energy Natural Gas Customer	\$1.50	Square Foot		
AE212c		Consumers Energy Electric Customer	\$1.50	Square Foot		


**Subtotal Advanced Air Distribution and Energy Recovery Incentive - Page 2**

**Total Advanced Air Distribution and Energy Recovery Incentive**

# Laboratory



Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

## Laboratory (Pre-Notification Required)

ID	Measure	Customer Type	Incentive	Unit	# of Units	Total Incentive	
LB101a	Automatic VAV Fume Hood Sash Closure System	Consumers Energy Electric and Natural Gas Customers	\$100.00	Linear Foot of Sash			<input type="checkbox"/>
LB101b		Consumers Energy Electric Customers	\$40.00	Linear Foot of Sash			<input type="checkbox"/>
LB101c		Consumers Energy Natural Gas Customers	\$75.00	Linear Foot of Sash			<input type="checkbox"/>
LB102a	Reduced/Optimized Air Changes per Hour (ACH)	Consumers Energy Electric and Natural Gas Customers	\$2.75	CFM Reduced			<input type="checkbox"/>
LB102b		Consumers Energy Electric Customers	\$1.50	CFM Reduced			<input type="checkbox"/>
LB102c		Consumers Energy Natural Gas Customers	\$1.25	CFM Reduced			<input type="checkbox"/>
LB103	VAV Fume Hood Sash Stops	Consumers Energy Electric Customers	\$35.00	Linear Foot of Sash			<input type="checkbox"/>
LB104a	Fume Hood Ventilation Reduction (based on sash location)	Consumers Energy Electric and Natural Gas Customers	\$1.40	CFM Reduced			<input type="checkbox"/>
LB104b		Consumers Energy Electric Customers	\$0.75	CFM Reduced			<input type="checkbox"/>
LB104c		Consumers Energy Natural Gas Customers	\$0.65	CFM Reduced			<input type="checkbox"/>
LB105a	VAV Fume Hood Occupancy Sensor Control	Consumers Energy Electric and Natural Gas Customers	\$60.00	Linear Foot of Sash			<input type="checkbox"/>
LB105b		Consumers Energy Electric Customers	\$30.00	Linear Foot of Sash			<input type="checkbox"/>
LB105c		Consumers Energy Natural Gas Customers	\$30.00	Linear Foot of Sash			<input type="checkbox"/>
LB106a	Low-Flow VAV Fume Hood	Consumers Energy Electric and Natural Gas Customers	\$60.00	Linear Foot of Sash			<input type="checkbox"/>
LB106b		Consumers Energy Electric Customers	\$30.00	Linear Foot of Sash			<input type="checkbox"/>
LB106c		Consumers Energy Natural Gas Customers	\$30.00	Linear Foot of Sash			<input type="checkbox"/>

**Total Laboratory Incentive**



Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

**Boiler or Process Burner Tune-up**

(Consumers Energy Natural Gas Customers)

ID	Measure	Level	Size Category (B)	Incentive (C)	Unit (A)
TU101a	Space Heating Boiler Tune-Up	Level 1	110 to 499 MBH	\$150.00	Boiler
TU101b		Level 2	500 to 1,199 MBH	\$250.00	Boiler
TU101c		Level 3	At Least 1,200 MBH	\$350.00	Boiler
TU102a	Process Boiler Tune-Up	Level 4	300 to 2,999 MBH	\$350.00	Boiler
TU102b		Level 5	3,000 to 9,999 MBH	\$1,250.00	Boiler
TU102c		Level 6	At Least 10,000 MBH	\$2,000.00	Boiler
TU103a	Process Burner Tune-Up	Level 7	300 to 499 MBH	\$150.00	Burner
TU103b		Level 8	500 to 1,199 MBH	\$350.00	Burner
TU103c		Level 9	At Least 1,200 MBH	\$500.00	Burner
TU104a	Pool and Spa Boiler Tune-Up	Level 10	300 to 499 MBH	\$100.00	Boiler
TU104b		Level 11	500 to 1,199 MBH	\$200.00	Boiler
TU104c		Level 12	At Least 1,200 MBH	\$250.00	Boiler
TU105a	Domestic Water Heating Boiler Tune-Up	Level 13	199 to 499 MBH	\$100.00	Boiler
TU105b		Level 14	500 to 1,199 MBH	\$250.00	Boiler
TU105c		Level 15	At Least 1,200 MBH	\$350.00	Boiler

Equipment Type/Level (See Above)	Manufacturer and Model Number	Percent Efficiency "Before"	Percent Efficiency "After"	# of Units (A)	Unit Size (MBH) (B)	Incentive (see above) (C)	Total Incentive (A x C)

**Forced Air Furnace, Unit Heater or Rooftop Unit (RTU) Tune-up**



(Consumers Energy Natural Gas Customers)

ID	Measure	Size Category (B)	Incentive (C)	Unit (A)
TU106a	Forced Air Furnace, Unit Heater or Rooftop Unit (RTU) Tune-up	40 to 299 MBH	\$100.00	Furnace, Unit Heater or RTU
TU106b		At least 300 MBH	\$125.00	Furnace, Unit Heater or RTU

Equipment Type/Level (See Above)	Manufacturer and Model Number	Percent Efficiency "Before"	Percent Efficiency "After"	# of Units (A)	Unit Size (MBH) (B)	Incentive (see above) (C)	Total Incentive (A x C)

**Subtotal Tune-up/Maintenance Incentive - Page 1**

## Tune-up/Maintenance

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Chiller Tune-up

(Consumers Energy Electric Customers)

ID	Measure	Size Category (B)	Incentive (C)	Unit
TU201a	Air- or Water-Cooled Chiller Tune-up	20 to 149 Tons	\$500.00	Chiller
TU201b	Air- or Water-Cooled Chiller Tune-up	150 to 999 Tons	\$1,250.00	Chiller
TU201c	Air- or Water-Cooled Chiller Tune-up	At Least 1,000 Tons	\$7,500.00	Chiller

Equipment Type/Level (See Above)	Manufacturer and Model Number	# of Chillers (A)	Chiller Size (Tons) (B)	Incentive (C) (see above)	Total Incentive (AxC)

### Steam Trap Monitoring System

(Consumers Energy Natural Gas Customers)

ID	Equipment Type	Incentive	Unit	# of Units	Total Incentive
TU202	Steam Trap Monitoring System - Space Heat	\$60.00	Trap		
TU203	Steam Trap Monitoring System - Process Heat	\$80.00	Trap		

### Replaced or Repaired Outdoor Air Damper Assembly (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit
TU204a	New Outdoor Air Damper Assembly	\$0.03	Supply CFM
TU204b	Repair Outdoor Air Damper Assembly (i.e. change damper seals)	\$0.01	Supply CFM

Measure	Nominal Supply Air Flow Rate (CFM)	Incentive	Total Incentive

### Steam Trap Repair or Replacement (Failed-Open)

(Consumers Energy Natural Gas Customers)

ID	Equipment Type	Incentive	Unit	# of Units	Total Incentive
TU205	HVAC Steam Traps <sup>(1,2)</sup>	\$175.00	Trap		
TU206	Process Steam Traps (> 50 psig and > 4,000 hrs./yr.) <sup>(1)</sup>	\$6.00	MCF Natural Gas <sup>(3)</sup>		

<sup>(1)</sup>Not eligible for this measure if the steam trap is failed-closed or a steam trap survey was or will not be completed by a certified person, but in lieu of this measure a reduced price steam trap may be available through the Business Instant Discount Program (find participating distributors at [ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program](http://ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program)).



<sup>(2)</sup>TU206 may be applied instead of TU205 at the discretion of the Program.

<sup>(3)</sup>Natural gas savings calculated per the Illinois Statewide Technical Reference Manual for Energy Efficiency.

Subtotal Tune-up/Maintenance Incentive - Page 2


Total Tune-up/Maintenance Incentive

## Refrigeration, Laundry & Kitchen

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Refrigeration Equipment (Pre-Notification Required)

(Consumers Energy Electric Customers)


ID	Measure	Incentive (A)	Unit	Unit Size (Tons) (B)	# of Units (C)	Total Incentive (AxBxC)	
RL101	Discus Compressors for Walk-in Coolers or Freezers	\$20.00	Ton				<input type="checkbox"/>
RL102	Scroll Compressors for Walk-in Coolers or Freezers	\$40.00	Ton				<input type="checkbox"/>
RL103a	Refrigeration Condenser Floating Head Pressure Controls	Grocery Store Systems	\$150.00	Ton			<input type="checkbox"/>
RL103b		Non-Grocery Store Systems, including Industrial Process Cooling*	\$125.00	Ton			<input type="checkbox"/>
RL104	Walk-in Cooler Air-Side Economizers (> 1,000 ft <sup>3</sup> ) (33° to 50°F)**	\$30.00	Ton				<input type="checkbox"/>

\*Measure may be eligible for New Construction applications if floating head pressure control is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

\*\*Measure may be eligible for New Construction applications if an economizer is not required by code (consult Incentive Catalog and ASHRAE 90.1-2013).

### Refrigerated Space LED Lighting (Pre-Notification Required)


(Consumers Energy Electric Customers)

ID	Measure	Incentive	Units	# of Units	Total Incentive		
RL105	Refrigerated Space LED Lighting (Refrigeration Savings)***	-20°F to 0°F	\$0.20	Watt Reduced			<input type="checkbox"/>
RL106		1°F to 20°F	\$0.13	Watt Reduced			<input type="checkbox"/>
RL107		21°F to 40°F	\$0.08	Watt Reduced			<input type="checkbox"/>

\*\*\*Must be combined with an interior lighting incentive measure (LT101 - LT129, LT203 - LT211, LT302, LT303, LT401).


### Refrigeration Controls (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive		
RL108	Case Cooler or Freezer Anti-Sweat Heater Controls	\$75.00	Door			<input type="checkbox"/>	
RL109	Walk-in Cooler or Freezer Defrost Controls	\$20.00	Ton			<input type="checkbox"/>	
RL110a	Walk-in Cooler or Freezer Evaporator Fan Speed Controls	Electronically Commutated Motor	\$35.00	Controller			<input type="checkbox"/>
RL110b		Permanent Split Capacitor Motor	\$120.00	Controller			<input type="checkbox"/>
RL110c		Shaded Pole Motor	\$130.00	Controller			<input type="checkbox"/>
RL111	Evaporator Fan Controls with Demand Defrost	Walk-in Cooler (33° to 50°F)	\$5.50	Ton			<input type="checkbox"/>
RL112		Walk-in Freezer (≤ 32°F)	\$45.00	Ton			<input type="checkbox"/>


### Refrigeration Evaporator Fan Motors (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL113	Refrigerated Case Evaporator Fan Electronically Commutated Motors (ECM)	\$90.00	Motor			<input type="checkbox"/>
RL114	Walk-in Cooler or Freezer Evaporator Fan Electronically Commutated Motors (ECM)	\$150.00	Motor			<input type="checkbox"/>
RL115	Walk-in Cooler or Freezer Evaporator Fan/Motor Assembly Reduction	\$250.00	Motor Removed			<input type="checkbox"/>



### Refrigerated Case LED Lighting

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL116	LED Lighting for Case Cooler or Freezer (Pre-Notification Required)	\$10.00	Linear Feet of Lighting			<input type="checkbox"/>
RL117	Occupancy Sensors for Case Cooler or Freezer LED Lighting	\$20.00	Door			<input type="checkbox"/>


**Subtotal Refrigeration, Laundry & Kitchen Incentive - Page 1**

## Refrigeration, Laundry & Kitchen

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### Walk-in or Case Cooler or Freezer Evaporator Fan Permanent Magnet Synchronous Motors

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL201	Medium Temp. Case, Replacing Shaded Pole Motor (33° to 50°F)	\$45.00	Motor			<input type="checkbox"/>
RL202	Low Temp. Case, Replacing Shaded Pole Motor ( $\leq$ 32°F)	\$55.00	Motor			<input type="checkbox"/>
RL203	Medium Temp. Walk-in, Replacing Shaded Pole Motor (33° to 50°F)	\$110.00	Motor			<input type="checkbox"/>
RL204	Low Temp. Walk-in, Replacing Shaded Pole Motor ( $\leq$ 32°F)	\$130.00	Motor			<input type="checkbox"/>
RL205	Medium Temp. Walk-in, Replacing Permanent Split Capacitor Motor	\$35.00	Motor			<input type="checkbox"/>
RL206	Low Temp. Walk-in, Replacing Permanent Split Capacitor Motor	\$45.00	Motor			<input type="checkbox"/>


### Reach-in Refrigerated Case Doors (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL207a	No Heat Case Cooler or Freezer Doors (no anti-sweat heater)	\$200.00	Door			<input type="checkbox"/>
RL207b	Low Heat Case Cooler or Freezer Doors (low wattage anti-sweat heater)	\$30.00	Door			<input type="checkbox"/>
RL208a	Adding Case Cooler Doors (33°F to 50°F)	Consumers Energy Electric and Natural Gas Customers	\$100.00	Linear Foot		<input type="checkbox"/>
RL208b		Consumers Energy Electric Customers	\$45.00	Linear Foot		<input type="checkbox"/>
RL208c		Consumers Energy Natural Gas Customers	\$45.00	Linear Foot		<input type="checkbox"/>
RL209a	Adding Case Freezer Doors (0°F to 32°F)	Consumers Energy Electric and Natural Gas Customers	\$150.00	Linear Foot		<input type="checkbox"/>
RL209b		Consumers Energy Electric Customers	\$100.00	Linear Foot		<input type="checkbox"/>
RL209c		Consumers Energy Natural Gas Customers	\$50.00	Linear Foot		<input type="checkbox"/>


### Refrigeration Insulation and Envelope (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL210	Open Case Cooler or Freezer Night Covers	\$20.00	Linear Foot			<input type="checkbox"/>
RL211	Refrigerated Space Doorway Strip Curtains, Medium Temp. (1°F to 40°F)	\$8.00	Square Foot			<input type="checkbox"/>
RL212	Refrigerated Space Doorway Strip Curtains, Low Temperature ( $\leq$ 0°F)	\$25.00	Square Foot			<input type="checkbox"/>
RL213	Walk-in Cooler or Freezer Door Gasket Seals	\$5.00	Linear Foot			<input type="checkbox"/>
RL214a	Automatic High-Speed Doors	Between Freezer and Cooler	\$70.00	Square Foot		<input type="checkbox"/>
RL214b		Between Freezer and Dock	\$150.00	Square Foot		<input type="checkbox"/>
RL214c		Between Cooler and Dock	\$15.00	Square Foot		<input type="checkbox"/>



### Integrated Variable Speed Motors (e.g. ECM)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL215	Integrated Variable Speed Motor (e.g. ECM) on Grocery Store Refrigeration System Exterior Condenser Fans	\$30.00	HP			<input type="checkbox"/>


Subtotal Refrigeration, Laundry & Kitchen Incentive - Page 2

## Refrigeration, Laundry & Kitchen


Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Laundry (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)


ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL301	Laundry Ozone-Generation System (Natural Gas Water Heater)	\$40.00	Pounds			<input type="checkbox"/>

### Commercial Clothes Washers (ENERGY STAR®)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL302	Clothes Washers (Natural Gas Water Heater) Consumers Energy Natural Gas Customers	\$20.00	Washer			<input type="checkbox"/>
RL303	Clothes Washers (Electric Water Heater) Consumers Energy Electric Customers	\$70.00	Washer			<input type="checkbox"/>

### Commercial Kitchen Ventilation Control (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL304	Commercial Kitchen Ventilation Controls	\$0.50	CFM			<input type="checkbox"/>
RL305	Engineered Commercial Kitchen Ventilation Hoods	\$1.00	CFM			<input type="checkbox"/>
RL306	Restaurant Demand Control Ventilation (Dining Room Only)	\$0.10	SQ FT			<input type="checkbox"/>

### Dishwashers (ENERGY STAR®)



(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
RL307	Commercial Dishwashers (Natural Gas Water Heater)	\$250.00	Unit			<input type="checkbox"/>
RL308	Under Counter Dishwashers (Natural Gas Water Heater)	\$50.00	Unit			<input type="checkbox"/>

Subtotal Refrigeration, Laundry & Kitchen Incentive - Page 3

Total Refrigeration, Laundry & Kitchen Incentive

## Building Envelope and Insulation

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Building Insulation (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE101	Wall Insulation	\$0.60	Square Foot		

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE102a	Flat Roof Insulation	R 10 to R 18	Square Foot		
BE102b		R 12 to R 18	Square Foot		
BE102c		R 14 to R 18	Square Foot		
BE102d		R 16 to R 18	Square Foot		
BE102e		R 18 to R 20	Square Foot		
BE102f		R 20 to R 22	Square Foot		
BE102g		R 22 to R 24	Square Foot		
<b>Flat Roof Insulation Total Incentive</b>					
<b>Flat Roof Insulation Awarded Incentive (Maximum \$100,000)</b>					

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE103	Attic Roof Insulation	\$0.30	Square Foot		

### Building Envelope (Pre-Notification Required)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE104	Window Reduction (Consumers Energy Natural Gas Customer Only)	\$0.75	Square Foot		
BE105	High-Efficiency Window Film (Consumers Energy Electric Customer Only)	\$0.40	Square Foot		
BE106	Window Awnings (Consumers Energy Electric Customer Only)	\$0.25	Square Foot		
BE107	High Performance Window Glazing (Consumers Energy Electric Customer Only)	\$0.25	Square Foot		
BE108	Cool (White) Roof (Consumers Energy Electric Customer Only)	\$0.02	Square Foot		

### Automatic High-Speed Doors

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE109	Automatic High-Speed Doors for Building Exterior	\$0.50	Square Foot		



### Pool Covers

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
BE110a	Automatic Pool Covers	400 - 2,400 sq. ft.	Cover		
BE110b		2,401 - 4,600 sq. ft.	Cover		
BE110c		4,601 - 6,800 sq. ft.	Cover		
BE110d		6,801 - 9,000 sq. ft.	Cover		
BE110e		9,001 - 10,000 sq. ft.	Cover		
BE111a	Manual and Semi-Automatic Pool Covers	400 - 2,400 sq. ft.	Cover		
BE111b		2,401 - 4,600 sq. ft.	Cover		
BE111c		4,601 - 6,800 sq. ft.	Cover		
BE111d		6,801 - 9,000 sq. ft.	Cover		
BE111e		9,001 - 10,000 sq. ft.	Cover		


**Total Building Envelope and Insulation Incentive**

## Pipe and Ductwork Insulation

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Pipe Insulation - Natural Gas Heating (Pre-Notification Required)


(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
IN101	Steam Space Heating (HVAC) Supply Piping*	\$6.00	Linear Foot			<input type="checkbox"/>
IN102	Steam Space Heating (HVAC) Condensate Piping*	\$3.00	Linear Foot			<input type="checkbox"/>
IN103	Metallic Hydronic Space (HVAC) or Process Heating Piping*	\$4.00	Linear Foot			<input type="checkbox"/>
IN104a	Metallic Domestic Hot Water Piping*	Unconditioned Space	\$2.00	Linear Foot		<input type="checkbox"/>
IN104b		Conditioned Space	\$1.00	Linear Foot		<input type="checkbox"/>
IN105a	Process Steam Supply Piping	Conditioned Space (Consumers Energy Electric and Natural Gas Customers)	\$3.00	Linear Foot		<input type="checkbox"/>
IN105b		Conditioned Space (Not A/C and Consumers Energy Natural Gas Customers)	\$2.00	Linear Foot		<input type="checkbox"/>
IN105c		Unconditioned Space (Consumers Energy Natural Gas Customers)	\$3.00	Linear Foot		<input type="checkbox"/>
IN106a	Process Steam Condensate Piping	Unconditioned Space (Consumers Energy Natural Gas Customers)	\$3.00	Linear Foot		<input type="checkbox"/>
IN106b		Conditioned Space (Not A/C and Consumers Energy Natural Gas Customers)	\$1.00	Linear Foot		<input type="checkbox"/>

\*Limit of 500 linear feet per system for space (HVAC) and domestic water heating applications.

### PEX Pipe Insulation - Natural Gas Space and Domestic Water Heating (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
IN107	Domestic Hot Water	Unconditioned Space	\$2.00	Linear Foot		<input type="checkbox"/>
IN108	Hydronic Space Heating	Unconditioned Space	\$3.00	Linear Foot		<input type="checkbox"/>
IN109	Domestic Hot Water	Conditioned Space	\$1.00	Linear Foot		<input type="checkbox"/>


### Pipe Insulation - Electric Domestic Water Heating (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive	
IN110a	Metallic Domestic Hot Water Piping	Unconditioned Space	\$1.00	Linear Foot		<input type="checkbox"/>
IN110b		Conditioned Space	\$0.50	Linear Foot		<input type="checkbox"/>


### Pipe Insulation - DX Suction Refrigerant (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	DX Suction Refrigerant System Type	Space Type	Incentive	Unit	# of Units	Total Incentive	
IN111	Data Center	Conditioned Space	\$0.20	Linear Foot			<input type="checkbox"/>
IN112a	Med Temperature Refrigeration	Conditioned Space	\$0.75	Linear Foot			<input type="checkbox"/>
IN112b		Unconditioned Space	\$0.50	Linear Foot			<input type="checkbox"/>
IN113	Low Temperature Refrigeration	Conditioned or Unconditioned Space	\$3.00	Linear Foot			<input type="checkbox"/>

### Ductwork Insulation - Natural Gas Heating (Pre-Notification Required)



(Consumers Energy Natural Gas Customers)

ID	Measure	Space Type	Air Distribution Type	Incentive	Unit	# of Units	Total Incentive	
IN114	Supply or Return Air Ductwork Insulation	Unconditioned Space (e.g. Crawl Space)	Supply Air	\$2.00	Square Foot			<input type="checkbox"/>
IN115			Return Air	\$3.00	Square Foot			<input type="checkbox"/>
IN116		Exterior Space	Supply Air	\$3.00	Square Foot			<input type="checkbox"/>
IN117			Return Air	\$3.00	Square Foot			<input type="checkbox"/>

**Total Pipe and Ductwork Insulation Incentive**

## Agricultural

(Both Commercial and Residential Agricultural Customers qualify for all measures on this page)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Farm Energy Audit

ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG101	Farm Energy Audit as Defined by USDA (Type 2)	\$1,500.00	Farm		

### Grain (Pre-Notification Required)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG102	New Grain Dryer (Consumers Energy Natural Gas Customers)	\$0.04	Bushels/yr.		
AG103	Add Heat Recovery to Grain Dryer (Consumers Energy Natural Gas Customers)	\$0.03	Bushels/yr.		
AG104	Temperature / Moisture Management Controller (Consumers Energy Electric Customers)	\$50.00	HP		

### Greenhouse (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG105	Heat Curtains	\$0.25	Square Foot		
AG106	Infrared Film - Replacing a Single-Layer Roof with a Double-Layer Roof	\$0.50	Square Foot		
AG107	Infrared Film - Replacing a Double-Layer Roof with a Double-Layer Roof	\$0.15	Square Foot		
AG108	Environmental Controls	\$0.30	Square Foot		
AG109	In-Floor or In-Bench Hydronic Heating Systems (without heat curtains)	\$0.50	Square Foot		
AG110	In-Floor or In-Bench Hydronic Heating Systems (with heat curtains)	\$0.25	Square Foot		

### Ventilation (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG111a	Circulation, Exhaust or Ventilation Fans	24 Inch to 35 Inch Fan Blade Diameter	Fan		
AG111b		36 Inch to 47 Inch Fan Blade Diameter	Fan		
AG111c		48 Inch to 72 Inch Fan Blade Diameter	Fan		
AG112a	High-Volume, Low-Speed Fans	16-Foot to < 18-Foot Fan Blade Diameter	Fan		
AG112b		18-Foot to < 20-Foot Fan Blade Diameter	Fan		
AG112c		20-Foot to < 22-Foot Fan Blade Diameter	Fan		
AG112d		22-Foot to < 24-Foot Fan Blade Diameter	Fan		
AG112e		At Least 24-Foot Fan Blade Diameter	Fan		
AG113	Fan Thermostat Controllers (> 0.5 HP Fan Motors)	\$190.00	HP		

### Irrigation (Pre-Notification Required)

(Consumers Energy Electric Customers)



ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG114	VSD on Agricultural Irrigation System Pumps	\$40.00	HP		
AG115	VSD on Golf Course Irrigation System Pumps	\$40.00	HP		
AG116	Micro (Drip) Irrigation Systems	\$50.00	Acre		
AG117	Low-Pressure or Zero-Energy Sprinkler Nozzles	\$0.50	Nozzle		
AG118	Low- or Zero-Energy Livestock Waterers	\$125.00	Unit		

Subtotal Agricultural Incentive - Page 1



## Agricultural

(Both Commercial and Residential Agricultural Customers qualify for all measures on this page)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Dairy (Pre-Notification Required unless otherwise noted)

(Consumers Energy Electric Customers unless otherwise noted)

ID	Measure	Incentive	Unit	# of Units	Total Incentive
AG201	Scroll Compressors for Dairy Refrigeration with Milk Pre-cooler (EER 10.5 to 11.49)	\$0.08	Lb. Milk/Day		
AG202	Scroll Compressors for Dairy Refrigeration without Milk Pre-cooler (EER 10.5 to 11.49)	\$0.04	Lb. Milk/Day		
AG203	Scroll Compressors for Dairy Refrigeration with Milk Pre-cooler (EER ≥ 11.5)	\$0.08	Lb. Milk/Day		
AG204	Scroll Compressors for Dairy Refrigeration without Milk Pre-cooler (EER ≥ 11.5)	\$0.04	Lb. Milk/Day		
AG205	Variable Speed Drive on Vacuum Pumps	\$100.00	HP		
AG206	Variable Speed Drive on Milk Pumps with Existing Milk Pre-Cooler	\$0.10	Lb. Milk/Day		
AG207	Variable Speed Drive on Milk Pumps with New Milk Pre-Cooler	\$0.14	Lb. Milk/Day		
AG208	Milk Pre-Cooler Heat Exchanger (Chiller Savings)	\$0.20	Lb. Milk/Day		
AG209a	Water Pre-Heat Heat Exchanger	Electric Water Heater	\$0.30	Lb. Milk/Day	
AG209b	(Heat Recovery Tank, Water Heating Savings)	Natural Gas Water Heater (Consumers Energy Natural Gas Customers)	\$0.06	Lb. Milk/Day	
AG210	Dairy Refrigeration Tune-Up (Pre-Notification NOT required)	\$0.04	Lb. Milk/Day		

### LED Dairy, Poultry and Retrofit Agricultural Grow Lighting (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive (F)	Unit
AG211a	LED Grow Lights < 6,570 Annual Hours (Retrofit Only)	\$0.70	Watt Reduced
AG211b	LED Grow Lights ≥ 6,570 Annual Hours (Retrofit Only)	\$1.00	Watt Reduced
AG212	Dairy Long Day LED Lighting Systems	\$0.70	Watt Reduced
AG213	Poultry LED Lighting Systems	\$0.70	Watt Reduced

Select Appropriate Measure	Pre		Post		Total Watts Reduced (E) = (AxB)-(CxD)	Incentive Rate (see above) (F)	Total Incentive (ExF)
	# of Fixtures (A)	Watts/Fixture (B)	# of Fixtures (C)	Watts/Fixture (D)			

### New Construction Agricultural LED Grow Lighting (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit	# of Fixtures (B)	Watts/Fixture (C)	Total Watts (D)=(BxC)	Total Incentive (AxD)
AG211c	LED Grow Lights < 6,570 Annual Hours (New Constr.)	\$0.70	Watt Installed				
AG211c	LED Grow Lights < 6,570 Annual Hours (New Constr.)	\$0.70	Watt Installed				
AG211d	LED Grow Lights ≥ 6,570 Annual Hours (New Constr.)	\$1.00	Watt Installed				
AG211d	LED Grow Lights ≥ 6,570 Annual Hours (New Constr.)	\$1.00	Watt Installed				

### Indoor Agriculture Grow Room Dehumidification (Year-Round Operation) (Pre-Notification Required)



(Consumers Energy Electric Customers)

ID	Measure	Incentive (A)	Unit	# of Dehumidifiers (B)	Pints/Day (C)	Total Pints/Day (D)=(BxC)	Total Incentive (AxD)
AG214	Indoor Agriculture Grow Room Dehumidification Units (> 155 pints/day)	\$1.00	Pint/Day				
AG214	Indoor Agriculture Grow Room Dehumidification Units (> 155 pints/day)	\$1.00	Pint/Day				

Subtotal Agricultural Incentive - Page 2

## Agricultural

(Both Commercial and Residential Agricultural Customers qualify for all measures on this page)

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

### Indoor Agriculture Grow Room LED Lighting HVAC Savings (Year-round Cooling) (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	Total Watts Reduced*	Total Incentive
AG215a	Indoor Agriculture Grow Room LED Lighting HVAC Savings < 6,570 Annual Hours	\$0.15	Watt Reduced		
AG215b	Indoor Agriculture Grow Room LED Lighting HVAC Savings ≥ 6,570 Annual Hours	\$0.20	Watt Reduced		

\*Enter the sum of all "Total Watts Reduced" values for all AG211a and AG211b entries on page 41. CE will calculate and enter for AG211c and AG211d.

### Indoor Agriculture Grow Room LED Lighting Dimming Controls (Year-Round Operation) (Pre-Notification Required)

(Consumers Energy Electric Customers)

ID	Measure	Incentive	Unit	Total Watts Reduced*	Total Incentive
AG216a	Indoor Agriculture LED Grow Lighting Dimming Controls < 6,570 Annual Hours	\$0.70	Watt Reduced		
AG216b	Indoor Agriculture LED Grow Lighting Dimming Controls ≥ 6,570 Annual Hours	\$1.00	Watt Reduced		

\*Annual average based on week by week dimming operation of the fixture output setting each week of the grow cycle (i.e. lighting schedule template).

### Indoor Agriculture Grow Room Split and Unitary Air Conditioning Systems (Year-Round Operation)

(Consumers Energy Electric Customers)

ID	Equipment Type	Size Category	Qualifying Efficiency	Incentive (C)	Unit
AG217a	Split (including Heat Pumps) or Unitary (e.g. RTU) Air Conditioning Systems	< 5.4 tons	16.0 SEER2 (17 SEER)	\$125.00	Ton
AG217b		≥ 5.4 to < 11.25 tons	12.0 EER & 19.0 IEER	\$100.00	Ton
AG217c		≥ 11.25 to < 20 tons	12.0 EER & 16.8 IEER	\$100.00	Ton
AG217d		≥ 20 to 63 tons	12.5 EER & 15.5 IEER	\$50.00	Ton
AG217e		> 63 tons	10.2 EER	\$50.00	Ton

ID	Manufacturer and Model Number	SEER2*/EER	IEER	Unit Size (Tons) (A)	# of Units (B)	Incentive (see above) (C)	Total Incentive (AxBxC)

\*Enter SEER2 efficiency for AG217a. To convert SEER to SEER2 efficiency, divide SEER efficiency by 1.05 (e.g. 18 SEER / 1.05 = 17.14 SEER2).

**Subtotal Agricultural Incentive - Page 3**



## General Design and Anticipated Construction Schedule

(LEED®v4 BD+C, Building Design and Construction)

LEED® Registration Date:	
Executable Model Completion Date:	
LEED® Preliminary Design Review Date:	
Construction Start/Groundbreaking Date:	
LEED® Final Construction Review Date:	
Certificate of Occupancy (CofO) Date:	
LEED® Certification Date:*	LEED® Certification Type:

\* Final Incentive Application must be received within 60 days of the facility receiving the LEED® Certification.

## Estimated/Actual LEED® Certified Savings and Incentives

Totals	Proposed/Certified	Baseline	Savings
kWh			
Mcf**			

\*\*Energy Conversion Constant: 1 Mcf = 10.27 therms

## LEED® Certification Level Planned/Actual

ID	LEED® Certification	Electric Incentive Rate (\$/kWh) (A)	Electric Savings (kWh) (from above) (B)	Electric Incentive (A x B = C)	Natural Gas Incentive Rate (\$/Mcf) (D)	Natural Gas Savings (Mcf) (from above) (E)	Natural Gas Incentive (D x E = F)	Total Incentive (C + F)
WB101	Certified/Silver	\$0.10			\$8.00			
WB102	Gold	\$0.12			\$9.00			
WB103	Platinum	\$0.14			\$10.00			



For all projects, please provide the following reports corresponding to the modeling software on your project.

	DOE2, eQUEST and Visual DOE	Energy Plus	Carrier HAP	Trane TRACE
1	Building Energy Performance (BEPS)	Annual Building Utility Performance Summary (ABUPS)	Annual Cost Summary	Energy Cost Budget/PRM Summary
2	Building Utility Performance (BEPU)	System Summary - showing the unmet load	Unmet load reports for all plants and systems	Energy Use Summary Reports
3	Energy Cost Summary (ES-D)	Report that shows annual energy cost by fuel source	Systems Energy Budget by Energy Source	Performance Rating Method Details
4	System Design Parameters (SV-A)	-	System input data reports	Equipment Energy Use
5	Details of Exterior Surfaces (LV-D)	-	Wall constructions	Entered Values Report (for all rooms and systems)

The following documentation must be included with the Incentive Application in addition to the documentation outlined above. If possible, the LEED® online portal should be shared with Program staff as an efficient means of providing project information. Energy savings will be validated per the LEED® review findings listed below.

- LEED® Certification Project Review Report and LEED® Reviewers Comments.
- LEED® 2009-EA Prerequisite 2: Minimum Efficiency Use Performance Form: This form details the building's Performance Rating Method Compliance and Total Building Energy Summary.
- EAp2 Section 1.4 Table.xls from all supporting documentation submitted with the LEED® template.
- By applying for Consumers Energy LEED® Whole Building Incentive Program you are authorizing Consumers Energy staff to contact USGBC/GBCI to request the final approved LEED® report and EAp2 Section 1.4 Table.xls. To streamline this process, you have the option to provide the project LEED® online access credentials to Consumers Energy staff to view the final approved reports.

**Total LEED® Whole Building Incentive**

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit. This  means measure may qualify for New Construction.

You know your business best. We'd like to work with you to find creative, custom and effective ways to upgrade the energy efficiency of your operations. We'll support your efforts with rebates based on the amount of energy you save over your base annual energy use.

Eligible natural gas customers will receive \$12 per Mcf of natural gas saved, up to \$500,000 each year with an additional 50% of calculated rebates above \$500,000. Consumers Energy electric customers will receive \$0.10 per kWh of electrical energy saved per year, up to \$2 million across all facilities per customer. All custom incentives are capped at 50% of the total project cost. The Business Energy Efficiency Program is one of several programs designed to help you save energy and money while protecting the plant. Together, we can take an active role in building a clean energy future for Michigan. Learn more at [MICleanEnergy.com](#).

## Pre-Notification is REQUIRED for all Custom Incentives

Please attach supporting documentation as described in the [Consumers Energy Business Energy Efficiency Programs Incentive Catalog](#) and/or the [Program Policies and Procedures Manual](#).

### Step 1: Summary (Please Use One Custom Page Per Custom Measure)

Description	
Before Retrofit***	After Retrofit

### Step 2: Energy Savings Summary

ID	Service	Unit	Current Energy Cost (\$/Unit)	Annual Savings (Units/yr) (A)	Incentive Rate (\$/Unit) (B)	Calculated Incentive (A x B)	Project Cost	Simple Payback Period*	Total Custom Incentive
CU101	Electric	kWh			\$0.10				<input type="checkbox"/>
CU102	Natural Gas****	Mcf			\$12.00				<input type="checkbox"/>

### Step 3: Miscellaneous Data

Annual Hours of Operation (Hours/yr)	Estimated Measure Life (Years)	Peak Demand Electrical Savings (kW)

### Step 4: Executive Summary (Please Define Project Scope in Further Detail)

**Total Awarded Incentive\*\***

\*Simple Payback Period must be greater than or equal to one year and less than or equal to 15 years to receive the incentive.

\*\*Total Awarded Incentive cannot exceed 50% of the total custom project cost or customer annual limits, whichever is less.

\*\*\*If New Construction, the baseline shall be in accordance with Michigan Energy Code or standard customary practice.

\*\*\*\*Natural Gas custom incentives are awarded at 100% of the calculated incentive up to \$500,000, and at 50% of the incentive above \$500,000.

**Total Custom Incentive**

## Business Instant Discount Program: Electric Products

**Instant savings, no application required!** Simply purchase the measures from participating distributors to receive the instant discount. The incentive is a discount at the point of purchase from participating distributors. For full details, visit:

[ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program](http://ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program)

### Lighting

Measures	Unit
LED 1x4 Flat Panels (1,500 to 6,000 lm)	Flat Panel
LED 2x2 Flat Panels ( $\geq$ 2,000 lm)	Flat Panel
LED 2x4 Flat Panels ( $\geq$ 3,000 lm)	Flat Panel
LED Wall Packs / Pole Fixtures / Canopy Fixtures	Fixture
LED Hardwired Trim Kits and Downlight Fixtures	Trim Kit / Fixture
LED Mogul Base HID Lamp Replacements	Lamp

Measures	Unit
LED High Bay Fixtures	Fixture
LED Exit Signs	Sign
LED Pin-Based Lighting Products	Lamp
LED Tube Lights	Tube Light
Daylight Sensors	Sensor

### Food Service Appliances/Equipment

Measure	Size	Unit
ENERGY STAR® Commercial Solid Door Refrigerators		Refrigerator
ENERGY STAR® Commercial Glass Door Refrigerators		Refrigerator
ENERGY STAR® Commercial Solid Door Freezers		Freezer
ENERGY STAR® Commercial Glass Door Freezers		Freezer
ENERGY STAR® Steam Cookers	3-Pan to 6-Pan	Cooker
ENERGY STAR® Hot Holding Cabinets	1/2 Size to Full Size	Cabinet
ENERGY STAR® Fryers	3-Pan	Fryer
ENERGY STAR® Griddles	4-Pan	Griddle
ENERGY STAR® Convection Ovens		Oven
Combination Ovens		Oven
ENERGY STAR® Ice Machines	Up to 1,500 lbs.	Machine
Pre-Rinse Sprayers (electric water heater)		Sprayer
Sensor Controlled Food Wrappers		Food Wrapper

### Miscellaneous

Measure	Unit
ENERGY STAR® Clothes Washers (electric water heater)	Clothes Washer
ENERGY STAR® Clothes Dryers	Clothes Dryer
3-Phase High Frequency Battery Chargers	Battery Charger
Drinking Water Cooler Misers	Miser
Snack Vending Machine Misers	Miser
Tankless Domestic Water Heaters	Water Heater
High-Performance HEPA Filters	Filter
High-Performance Non-HEPA Filters	Filter
Cogged V-Belt Drives	V-Belt Drive
Night Covers	Night Cover

### HVAC Equipment

Measure	Unit
Unitary Air Conditioning Units (RTUs)	Unit
Packaged Terminal Air Conditioners (PTACs / PTHPs)	PTAC / PTHP
Ductless Air Conditioning Systems (mini-splits)	System

### Agriculture

Measure	Unit
Engine Block Heater Controllers	Controller
Low- or Zero-Energy Livestock Waterers	Waterer
Circulation, Exhaust or Vent Fans (24" to 71" fan blade diameter)	Fan

## Business Instant Discount Program: Natural Gas Products

**Instant savings, no application required!** Simply purchase the measures from participating distributors to receive the instant discount. The incentive is a discount at the point of purchase from participating distributors. For full details, visit:

[ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program](http://ConsumersEnergy.com/business/energy-efficiency/special-programs/instant-discount-program)

### Food Service Appliances/Equipment

Measure	Unit
ENERGY STAR® Fryers	Fryer
Large Vat Fryers	Fryer
ENERGY STAR® Griddles	Griddle
ENERGY STAR® Steam Cookers (5-pan or 6-pan)	Cooker
Infrared Charbroilers	Charbroiler
Infrared Rotisserie Ovens	Oven
Infrared Salamander Broilers	Broiler
Infrared Upright Broilers	Broiler
Pasta Cookers	Cooker
ENERGY STAR® Convection Ovens	Oven
Combination Ovens	Oven
Commercial Conveyor Ovens	Oven
Rack Ovens (single or double)	Oven
ENERGY STAR® Dishwashers (natural gas water heater)	Dishwasher
Pre-Rinse Sprayers (natural gas water heater)	Sprayer
Commercial Kitchen Ventilation Controls (natural gas heat)	Rated CFM

### Domestic Water Heaters

Measure	Unit
Tank-Style Water Heaters	Water Heater
Tankless Water Heaters	Water Heater

### HVAC Equipment

Measure	Unit
High-Efficiency Hydronic Boilers (at least 90% efficiency)	Boiler
High-Efficiency Furnaces (at least 92% efficiency)	Furnace

### Agriculture

Measure	Unit
High-Efficiency Unit Heaters (at least 92% efficiency)	Unit Heater

### Miscellaneous

Measure	Unit
Steam Traps	Steam Trap
Sash Stops (natural gas heat)	Sash Stop
ENERGY STAR® Clothes Washers (natural gas water heater)	Clothes Washer
ENERGY STAR® Clothes Dryers	Clothes Dryer
Pool Covers (automatic or manual, 400 to 10,000 ft <sup>2</sup> )	Pool Cover

# APPENDIX

## Variable Frequency Drive Information Worksheet

In addition to completing this worksheet, a minimum of seven continuous days of line side (NOT load side) power monitoring before (if retrofit) and after installation (it is recommended to meter power every 15 seconds) must be completed for all custom incentive VFD projects, and if specified for prescriptive VFD measures.

### Fan / Pump Information

Fan or pump ID tag (from worksheet):	Type of area served by fan or pump:
If fan, note type (centrifugal, forward curve, backward curve, axial, etc.):	Equipment served by fan or pump:
Nominal Horsepower (HP) (if multiple motors, list individual HP ratings):	Nameplate motor efficiency (if multiple motors, list individual efficiencies):
Manufacturer:	Model Number:
Full load design conditions: Flow (CFM, GPM):	Pressure (inches static, feet of water, PSI, other):
Existing controls (discharge damper, inlet guide vanes, outlet control valve, bypass valve, etc.):	Existing set point (inches static, feet of water, PSI, other):

### Operation Hours

The fan or pump operates the following hours (e.g. 0600 to 1800 or on demand):

Summer		Winter	
Weekdays	to	Weekdays	to
Saturdays	to	Saturdays	to
Sundays	to	Sundays	to
Number of shifts per weekday:		Number of shifts per weekend day:	

### Existing Motor Load

The fan or pump operates the following hours (e.g. 0600 to 1800 or on demand): \_\_\_\_\_

Option 1 (retrofit): Measured input power under full load: \_\_\_\_\_kW (true RMS power), \_\_\_\_\_Power Factor (PF)

Option 2 (retrofit): Measured current and voltage under full load: \_\_\_\_\_Amps \_\_\_\_\_Volts  
 Three-phase load calculation = \_\_\_\_\_Amps x \_\_\_\_\_Volts x \_\_\_\_\_PF x 1.73 / 1,000 = \_\_\_\_\_kW

Option 3 (retrofit or new): Measured or estimated fan or pump full load: \_\_\_\_\_kW  
 If estimating load, provide description, assumptions and formula used to calculate power:

### Proposed Operations

The proposed VFD will be automatically controlled to maintain the following set points:

Flow (CFM, GPM, other): \_\_\_\_\_ Pressure (in static, feet of water, PSI, other): \_\_\_\_\_

If other, please describe: \_\_\_\_\_



## APPENDIX

### Compressed Air Correct Sizing Worksheet

Completed worksheet must be included with the Incentive Application when applying for the Correct Sizing Air Compressor (CA124) measure incentive. In addition, must complete a minimum of seven continuous days of power monitoring before and after retrofit (it is recommended to meter power every 15 seconds).

	Existing/Baseline	Proposed/Post
Size of Air Compressor(s) (HP)		
Air Compressor(s) Control Strategy		
Nominal Production Rate During Data Collection (CFM)		

Annual Hours of Operation (hrs./yr.)	
Typical Discharge Pressure of the Air Compressor in this application (psig)	

# APPENDIX

## Affidavit for Implemented Indoor Agriculture LED Lighting Dimming Schedules

I, \_\_\_\_\_, declare that the LED lighting fixtures included in the scope of this project are capable of dimming and will be continuously controlled for a minimum of five (5) years. The lighting controller(s) will dim fixture output to levels at or below the lighting fixture settings listed in the Dimming Schedule submitted with the Final Incentive Application for this project.

I further declare that:

I am an authorized representative of the company purchasing the new dimmable LED grow lights and/or controller(s) (i.e., Customer or End User).

NAME and ADDRESS OF THE CUSTOMER (COMPANY) IMPLEMENTING DIMMING WITH LED GROW LIGHTS AND ASSOCIATED CONTROLLER(S):

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Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_