

2012 Program Application

Follow This Easy Process:

Are you eligible?

To apply for incentives, you must be a DTE Energy Commercial and/or Industrial customer in good standing (for electricity if you're applying for electric incentives, and gas if applying for gas incentives). Your project must be installed at a facility served by DTE Energy (one facility per application). Equipment installed must meet the specifications as explained in this Application form. Additional details are available in the Policy and Procedures Manual, available on our website.

Incentive Reservations (Reservation Applications)

Project not completed or even started? Use this application to reserve incentives from our limited funds. Email, mail or fax a completed copy of the application. Reservation Applications are strongly encouraged for all projects and are required for custom projects. A custom project is one that is not on our list of Prescriptive Measures; call us for more details. Is your project already completed? See step 4 below.

Installation

3 Complete your project within 90 days of receiving a Reservation Letter from us that confirms we are holding incentives for you.

Project Completion (Final Applications)

Email, mail or fax a signed and completed copy of the completed application and all required documentation including dated, itemized invoices, manufacturer specification sheets for the items installed, and the Final Agreement sheet signed by the **CUSTOMER**.

If you are viewing this document in Microsoft Excel®, please note that each section of the application is accessible through the tabs at the bottom of the Excel window.

Send completed applications to:

Email saveenergy@dteenergy.com

Mail

DTE Energy's Energy Efficiency Program For Business P.O. Box 11289 Detroit, MI 48211

Fax

877.607.0744

Please note we will contact you within 5 business days of receipt of fax. If you do not receive confirmation, please call the program office at your earliest convenience

If you need assistance, please call our program hotline 866.796.0512

Please visit our website dteenergy.com/saveenergy



PROGRAM GUIDELINES

DTE Energy is offering a comprehensive set of incentives to facilitate the implementation of cost-effective, energy efficiency improvements for business customers.

Funds are limited and incentive payments are dependent on fund availability. Completed Final Applications for this current program year must be received by Nov 30, 2012 to qualify for payment in this program year.

Program and Project Eligibility

The incentive program offers business customers prescriptive incentives for many common energy efficiency measures and custom incentives for other eligible energy efficiency improvements. This program is not available to DTE Energy customers in multifamily buildings or residential complexes. These customers are eligible to participate in the Multifamily Program for energy saving upgrades to both tenant and common areas.

For custom measures, the maximum allowable incentive is limited to 50 percent of the total cost of all eligible custom measures. Internal customer labor costs may not be included in project costs.

Program incentives are limited per facility, project and customer and program year. A facility is defined as a building or complex of buildings, each with one or more DTE Energy utility meters, on a single property and for which a single customer is responsible for paying the DTE Energy utility (electric and/or gas) bill. A project is defined as a unique energy efficiency measure or set of measures implemented at a building in a single time span. A project may be prescriptive, custom, or a combination thereof. A separate invoice is required to support and identify each gas or electric project. The customer is defined as the business entity, with a unique taxpayer ID number, that is responsible for the DTE utility bill for one or more facilities.

Customers saving electricity may receive up to \$150,000 per facility per program year; the total customer cap (across all facilities saving electricity) is \$500,000 per program year. Customers saving gas may receive up to \$25,000 per project and \$100,000 per facility per program year. The total customer cap (of all projects saving gas) is \$100,000 per program year.

Program Year Incentive Limits

	Electricity	Gas
Facility	\$150,000	\$100,000
Project	\$150,000	\$25,000
Customer	\$500,000	\$100,000

Reservation Application Process

A reservation is required for all custom and certain prescriptive measures such as De-lamping and Low Wattage lamps, and strongly encouraged for all other prescriptive measures in order to pre-approve incentive levels and reserve potential funding. If your project requires a reservation do not begin any part (including removal of old fixtures) until after your pre-inspection. The DTE Energy team will review project eligibility and reserve program funds. Neither an application nor a reservation will guarantee an incentive. Actual incentives will be calculated based on the final application. Project funds will be reserved for 90 days. Notify us at reservation submittal if your project will take longer than 90 days to complete.



PROGRAM GUIDELINES

Final Application Review Process

Final Applications must be submitted within 60 days of project completion.

Applicants who submit incomplete applications will be notified of deficiencies. Final applications **for each site** must include project documentation, including copies of <u>dated</u>, <u>itemized invoices</u> for the purchase and, if applicable, installation of the energy efficient equipment and manufacturer's product specifications. For multiple projects using the same invoices, must provide quantities of equipment per site not exceeding total invoice.

The project invoice must provide sufficient detail to separate the project cost from the cost of other services such as repairs and building code compliance, as well as show the location where the measures were installed. Invoices must be dated and itemized, and must clearly identify the equipment pertaining to the project for which incentives are requested. DTE Energy reserves the right to request additional supporting documentation as deemed necessary to ensure measure eligibility and verify that the expected energy savings will occur. Requested information may include: equipment purchase dates, installation dates, proof that the equipment is operational, warranty information, and proof of customer payment. Applicants are encouraged to call the program hotline at 866.796.0512 if they have any questions about documentation requirements. All customer information will be held in confidence.

Once all required project information is received, the team will evaluate it to confirm that the project meets the program eligibility criteria and perform inspections and/or technical reviews. DTE Energy will send incentive checks 4-6 weeks after project final approval.

Inspections

DTE Energy reserves the right to inspect all projects to verify compliance with the program rules and verify the accuracy of project documentation. This may include pre-installation and/or post-installation inspections. Detailed lighting layout descriptions, metering, data collection, interviews and other information may be requested as appropriate.



INCENTIVE APPLICATION CHECKLIST

This form MUST be included with any Reservation or Final Application.

SUBMITTAL DATE:	Send to:	DTE Energy's Energy Efficiency Program For Business P.O. Box 11289
IS THIS A REVISED APPLICATION?:		Detroit MI 48211
	Email:	saveenergy@dteenergy.com
APPLICATION NUMBER (IF KNOWN):	Fax:	877.607.0744
	Phone:	866.796.0512

	RESERVATION APPLICATION					
	Fill out this side when reserving incentives					
	Required Attachment					
	Customer/Contractor Information (p. 5)					
	Incentives Worksheets					
	Lighting (p. 9-12)					
	HVAC (Electric) (p. 17-18)					
	Air-cooled Chillers (p. 19)					
	Water-cooled Chillers (p. 20-22)					
	Gas (HVAC & Misc.) (p. 26-27)					
	Boiler/Furnace Tune-up (p. 32)					
	Miscellaneous (Electric) (p. 34)					
	Process (Electric) (p. 36)					
	Food Service (Electric) (p. 38)					
	Food Service -Gas (p. 40)					
	<u>Custom</u> (p. 42)					
Applica	ation Date:					
Exp	Expected Completion Date*:					
*Project funds will only be reserved for 90 days from date of Reservation.						

	FINAL APPLICATION
	Fill out this side when project is completed
	Required Attachments
	Customer/Contractor Information (p. 5)
	Signed Final Application Agreement (p. 6)
	Manufacturers Specifications
	<u>Itemized Invoices</u>
	W9 Tax Information Form (payee)
	Incentives Worksheets
	Lighting (p. 9-12)
	HVAC (Electric) (p. 17-18)
	Air-cooled Chillers (p. 19)
	Water-cooled Chillers (p. 20-22)
	Gas (HVAC & Misc.) (p. 26-27)
	Boiler/Furnace Tune-up (p. 32)
	Miscellaneous (Electric) (p. 34)
	Process (Electric) (p. 36)
	Food Service (Electric) (p. 38)
	Food Service - Gas (p. 40)
	<u>Custom</u> (p. 42)
Annling	stan Data.
Applicat	tion Date:
Act	ual Completion Date*:
l	
*Incomple	lete applications will delay processing and incentive payment.

MEASURE CATEGORY	INCENTIVE AMOUNT
LIGHTING	
HVAC (ELECTRIC)	
AIR-COOLED CHILLERS	
WATER-COOLED CHILLERS	
GAS (HVAC, WATER HEATING)	
BOILER/FURNACE TUNE-UPS	
MISCELLANEOUS (ELECTRIC)	
PROCESS (ELECTRIC)	
FOOD SERVICE (ELECTRIC)	
FOOD SERVICE & MISCELLANEOUS (GAS)	
CUSTOM	
TOTAL INCENTIVES	



INCENTIVE APPLICATION

Important: Please read the terms and conditions on the Final Application Agreement before signing and submitting this application. You must complete ALL information requested below and provide the required additional documentation to avoid delays in reservation or incentive processing.

CUSTOMER INFORMATION							
Primary Buildin	g Type (please select one)	Pri	mary Indu	IStry (if not defined by buildin	g type)		
ASSEMBLY SMALL RETAIL BIG BOX RETAIL SCHOOL (K-12) COLLEGE/UNIVERSITY GROCERY FAST FOOD RESTAURANT FULL SERVICE RESTAURANT	HOTEL SMALL OFFICE LARGE OFFICE LIGHT INDUSTRY HEAVY INDUSTRY WAREHOUSE	PETRO STEEL PRIMARY MET. MINING/CONSTRUCT TRANS./COMM./UTIL	R/P ALS ION	GOVERNMENT REALESTATE SERVICES			
Natural Gas Provider	MISCELLANEOUS Electricity Provider		You Learn .	About This Incentive	Progra	m?	
DTE Energy Consumers Energy (other)		Mail	ing nail site	Meeting Bill Insert Trade Ally/Contractor Other			
Tax Status*	as entered on W9)	Project Ty	ne				
Limited Liability Company	·	Existing Build	_				
Partnership	•	non construct	ion 🔲				
Individual 🗆		Major Renovat	ion 🔲				
	*may receive IRS Form 1099						
NAME OF APPLICANT'S BUSINESS							
DDO JEOT MAME (JE ADDI JOADI E)							
PROJECT NAME (IF APPLICABLE)							
DTE ENERGY ELECTRIC ACCOUNT	# (where electric measure is installed)	DTE ENERGY GAS AC	COUNT # (where	gas measure is installed)			
NAME AS IT APPEARS ON DTE ENE	RGY BILL	TAXPAYER ID # (SSN/F	FEIN)				
NAME OF CONTACT PERSON		TITLE OF CONTACT PI	ERSON				
CONTACT PHONE #	CONTACT FAX #	CONTACT EMAIL ADDI	RESS				
MAILING ADDRESS		CITY			STATE	ZIP	
INSTALLATION ADDRESS		CITY			STATE	ZIP	
Who should we call with questions on the application?	Customer ARY CONTRACTO	Contract		IFODMATION			
NAME OF COMPANY	ARY CONTRACT	JR/DISTRIBU	TORTI	IFORMATION			
NAME OF CONTACT PERSON		TITLE OF CONTACT P	FRSON				
CONTACT PHONE #	CONTACT FAX #	CONTACT EMAIL ADDI	RESS				
MAILING ADDRESS		CITY			STATE	ZIP	



FINAL APPLICATION AGREEMENT

The energy optimization measures are installed in a qualifying timeframe, at a qualifying facility and are not for resale. Additional program terms and conditions can be found in the Policy and Procedures Manual available at www.dteenergy.com/saveenergy.

I understand that in the event this application received a reservation, that reservation is not a guarantee of payment. Incentive payment will be based upon the Final Application meeting the program terms and conditions and the availability of funds.

Selected terms and conditions include:

- Final Applications and all required documentation must be received within 60 days of project completion.
- 2. The program has a limited budget, but is a multi year program. Applications will be processed until allocated funds are reserved or spent each program year.

 All equipment must be purchased and installed prior to submitting the Final Application.
- Applicant agrees to inspection and measurement activities by the utility or its representatives of both project payment and equipment installation for up to five years from the date of equipment installation.
- 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 the Applicant is exempt.
- 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 permanently taken out of service and disposed of in accordance with federal and state laws or regulations and local codes and ordinances. The Applicant is responsible for being aware of any applicable codes or ordinances. Information about hazardous waste disposal can be found at: www.epa.gov/osw/hazwaste.htm.
- For certain measures, the incentive amount will be determined based on the estimated energy savings. The Applicant may be required to provide documentation on energy savings calculations and assumptions. DTE Energy will make the final determination of the energy savings and thus the incentive amount to be paid.
- DTE 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
- 10. Payment of incentives under the Program and/or evaluation of applications for incentives shall not deem DTE Energy or any of its affiliates, employees or agents ("DTE Energy Parties") to be responsible for any work completed in connection herewith. Applicant fully releases DTE Energy Parties from any and all claims it may have against DTE Energy Parties in connection with this Application, the incentives or the work performed in connection with them. In addition, Applicant agrees to defend, indemnify and hold DTE Energy Parties harmless from and against any and all claims, losses, demands or lawsuits by any third parties arising in connection with this Application, the payment or non payment of incentives, or any work performed in connection with them.
- 11. DTE Reserves the right to associate with your business and participation in the incentive program for promotion and advertising purposes. No promotion or advertisement will be done without expressed written approval of

I have read and understand the measure specifications and Program Guidelines set forth in this application 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

I certify that the information on this application is true and accurate. By submitting this application, I authorize DTE Energy to utilize my account information and project data. I authorize DTE to use non-sensitive data and association with our company participation for promotional purposes but that all account information will remain confidential and will only be used to evaluate my application for compliance with the program policies.

INCENTIVES REQUESTED					
TOTAL PROJECT COST	DJECT COST TOTAL INCENTIVES REQUESTED				
DTE ACCOUNT HOLDER SIGNATURE			TITLE OF DTE ACCOUNT HOLDER		
PRINT NAME	DATE		ACTUAL COMPLETION DATE		

FOR FINAL APPLICATIONS, SIGN AND SUBMIT ONLY AFTER ALL EQUIPMENT HAS BEEN INSTALLED. A CUSTOMER SIGNATURE IS REQUIRED FOR PAYMENT. SIGNED APPLICATIONS RECEIVED BY FAX OR EMAIL WILL BE TREATED THE SAME AS ORIGINAL APPLICATIONS RECEIVED BY MAIL.

OPTIONAL THIRD PARTY PAYMENT AUTHORIZATION

Complete this section ONLY if incentive payment is to be paid to an entity other than the DTE Account Holder.

I am authorizing 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 Measure Specifications, Final Application Agreement, and

Terris & Conditions.			
Authorized by:			
DTE ACCOUNT HOLDER SIGNATURE	PRINT NAME	DATE	
Check should be made payable to:			
PAYEE: COMPANY/INDIVIDUAL NAME			
MAILING ADDRESS			
CITY	STATE	ZIP	
CONTACT PHONE NUMBER			
TAXPAYER ID # (SSN/FEIN OF PAYEE)	TAX STATUS co	rporation (Inc., PC, Etc.), Tax Exempt, Ind	ividual, Other (May receive 1099)



LIST OF ELIGIBLE PRESCRIPTIVE ELECTRIC MEASURES

Lighting

Compact Fluorescent Screw-in Lamps (CFL)

(CFL)Reflector Flood Lamps

Compact Fluorescent Fixtures

ENERGY STAR® Qualified LED Lamps

Standard Linear Fluorescent Retrofit (T12 to T8)

T12/T8 U-Bulb Retrofit

High Output (HO) Linear Fluorescents (T12HO to T8HO)

High Performance (HP) and Low Wattage (LW) Linear fluorescents

Interior High-Intensity Discharge (HID) to Fluorescent Fixtures

Garage/Exterior High-Intensity Discharge (HID) Conversion

Exit Signs Retrofit

LED Traffic Signals

Occupancy Sensors

Central Lighting Controls

Switching Controls for Multilevel Lighting

Davlight Sensor Controls

Exterior Lighting Bi-level Control w/Override

Light Tubes (Daylighting)

Delamping

HVAC Electric

Unitary and Split Air Conditioning Systems

Air Source Heat Pumps

Water Loop Heat Pumps

Room Air Conditioners

Package Terminal Air Conditioner & Heat Pump

Ground Source Heat Pump

Ground Source Heat Pump - Air Source Base

Air-Cooled Chiller

Water- Cooled Chiller

Programmable Thermostat (Air Conditioning)

Energy Management System for Chilled Water

Setback/Setup Controls (Air Conditioning)

Hotel Guestroom Energy Management System (Air Conditioning)

Chilled Water Reset - Air Cooled

Chilled Water Reset - Water Cooled

Variable Frequency Drive - HVAC Fan/Pump

Economizer

Cool Roof

High Performance Glazing

Window Film

Misc Electric

Beverage Vending Machine Controllers Intelligent Surge Protector Energy Efficient Ice Machines High Efficiency Clothes Washer

Process Electric

High Efficiency Pumps
Variable Frequency Drive on Pumps
Compressed Air Engineered Nozzle
Barrel Wraps for Injection Molders & Extruders
Insulated Pellet Dryer Ducts

Food Service & Refrigeration Electric

Energy Star Commercial Solid Door Refrigerators
Energy Star Commercial Solid Door Freezers
Replacement Steam Cookers
Replacement Hot Holding Cabinets
Anti-Sweat Heater Controls
Efficient Refrigeration Condenser
Floating Head Pressure Controls
ECM Motor for Refrig. Cases, Freezers and Coolers
Evaporator Fan Motor Controls
LED Refrigerated Door Case Lighting
Refrigerated Case Night Covers



LIST OF ELIGIBLE PRESCRIPTIVE GAS MEASURES

Gas

Steam Traps

Space Heating Boilers

Boiler Modulating Burner Control

Boiler Reset Control

High Efficiency Furnace

Pipe Wrap - Steam and Hot Water Boiler

Infrared Heaters

Chilled Water Reset

Variable Frequency Drive on Secondary Chilled Water Pump

Roof Insulation

Programmable Thermostat

Energy Management System For Chilled Water

Setback/Setup Controls (Gas Heat)

Demand Controlled Ventilation

Hotel Guestroom Energy Management Control

Indirect Domestic Hot Water Heating System

Gas Water Heater

Gas Tankless Water Heater

Domestic Hot Water Pipe Wrap

High Efficiency Pool Heater (Gas Heat)

Pool Covers

High Efficiency Clothes Washer

Greenhouse Heat Curtain

Greenhouse Infrared Film

Truck Loading Dock Seals- New Installation

Truck Loading Dock Leveler Ramp Air Pit Seals

Ozone Laundry System

High Efficiency Process Boiler (Water)

High Efficiency Process Boiler (Steam)

Dry Cleaning Boiler Descaling (Kettle-Type)

Dry Cleaning Boiler Descaling (Tube-Type)

Boiler- Furnace Tune-up

Boiler Tune Up

Process Boiler Tune-up

Furnace/RTU Tune-up

Food Service Gas

Replacement Steam Cookers

Replacement Ovens

Replacement Fryers/Griddles

Furnace Tube Inserts

Pre-Rinse Sprayers (Gas Water Heat)

Night Covers (vertical)



LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not listed as one of the measures below, you may apply for a custom measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated		
Compact Fluorescents and LEDs (Incandescent/Halogen to CFL or LED)						
CFL - Screw-in (≤ 31 Watts)	\$1.50	Lamp				
CFL - Screw-in (> 31 Watts)	\$8.00	Lamp				
CFL Reflector Flood Lamps	\$8.00	Lamp				
Compact Fluorescent Fixture	\$22.00	Fixture				
42W 8 Lamp High Bay Compact Fluorescent Fixture	\$35.00	Fixture				
ENERGY STAR® Qualified LED Recessed Down Light	\$15.00	Lamp				
ENERGY STAR® Qualified MR16 LED Lamps	\$4.00	Lamp				
ENERGY STAR® Qualified PAR LED Lamps	\$5.00	Lamp				
Standard Linear Fluorescent Retrofit (T12 to T8)						
Allows 40 TO	#0.00	Fishing				
1 Lamp, 4ft T8	\$2.00	Fixture				
2 Lamp, 4ft T8	\$3.00	Fixture				
3 Lamp, 4ft T8 4 Lamp, 4ft T8	\$5.00	Fixture Fixture				
4 Lamp, 4n To	\$6.00	Fixture				
1 Lamp, 8ft T8	\$4.00	Fixture				
2 Lamp, 8ft T8	\$5.00	Fixture				
1 Lamp, 2ft T8	\$3.00	Fixture				
2 Lamp, 2ft T8	\$4.00	Fixture				
3 Lamp, 2ft T8	\$6.00	Fixture				
4 Lamp, 2ft T8	\$8.00	Fixture				
1 Lamp, 3ft T8	\$3.00	Fixture				
2 Lamp, 3ft T8	\$4.00	Fixture				
3 Lamp, 3ft T8	\$5.00	Fixture				
4 Lamp, 3ft T8	\$7.00	Fixture				
U-Lamp Fluorescent Retrofit (T12 to T8)	•		•			
1 Lamp, T12 U-Lamp to T8 U-Lamp	\$3.00	Fixture				
2 Lamp, T12 U-Lamp to T8 U-Lamp	\$4.00	Fixture				
1 Lamp, T12 U-Lamp to T8 2 Lamp 2ft Linear	\$3.00	Fixture				
2 Lamp, T12 U-Lamp to T8 4 Lamp 2ft Linear	\$4.00	Fixture				



LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not listed as one of the measures below, you may apply for a custom measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
High Output (HO) Linear Fluorescents (8FT T12HO to T8HO)				
1 Lamp, 8ft T8 HO	\$9.00	Fixture		
2 Lamp, 8ft T8 HO	\$17.00	Fixture		
High Performance (HP) and Low Wattage (LW) 4-foot Linear Flu	iorescents. All	lamps are 4ft unless o	therwise stated.	
LW T8 (Lamps Only, 4ft Linear or U-Lamp) NOTE: Reservation Application is required for all LW T8 lamp only projects.	\$0.75	Lamp		
1 Lamp HP T8, replacing T8	\$2.00	Fixture		
2 Lamp HP T8, replacing T8	\$3.00	Fixture		
3 Lamp HP T8, replacing T8	\$4.00	Fixture		
4 Lamp HP T8, replacing T8	\$5.00	Fixture		
1 Lamp LW HP T8, replacing T8	\$3.00	Fixture		
2 Lamp LW HP T8, replacing T8	\$5.00	Fixture		
3 Lamp LW HP T8, replacing T8	\$7.00	Fixture		
4 Lamp LW HP T8, replacing T8	\$9.00	Fixture		
1 Lamp HP T8, replacing T12	\$4.00	Fixture		
2 Lamp HP T8, replacing T12	\$7.00	Fixture		
3 Lamp HP T8, replacing T12	\$10.00	Fixture		
4 Lamp HP T8, replacing T12	\$13.00	Fixture		
1 Lamp LW HP T8, replacing T12	\$5.00	Fixture		
2 Lamp LW HP T8, replacing T12	\$8.00	Fixture		
3 Lamp LW HP T8, replacing T12	\$12.00	Fixture		
4 Lamp LW HP T8, replacing T12	\$15.00	Fixture		
2 Lamp HP T8, replacing T12 8ft 1 lamp	\$5.00	Fixture		
4 Lamp HP T8, replacing T12 8ft 2 lamp	\$6.00	Fixture		
2 Lamp HP T8, replacing T12 HO 8ft 1 lamp	\$15.00	Fixture		
4 Lamp HP T8, replacing T12 HO 8ft 2 lamp	\$25.00	Fixture		
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LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not listed as one of the measures below, you may apply for a custom measure.

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Equipment Type	Incentive	Unit	# of Units	Incentive Calculated			
			•	•			
Interior High-Intensity Discharge (HID) to Fluorescent Fixtures							
3 Lamp T5 HO, replacing 250W HID	\$35.00	Fixture					
4 Lamp T5 HO, replacing 400W HID	\$65.00	Fixture					
6 Lamp T5 HO, replacing 400W HID	\$30.00	Fixture					
Two 6 Lamp T5 HO, replacing 1000W HID	\$110.00	Fixture					
4 Lamp 32W T8, replacing 250W HID	\$50.00	Fixture					
6 Lamp 32W T8, replacing 400W HID	\$70.00	Fixture					
8 Lamp 32W T8, replacing 400W HID	\$50.00	Fixture					
Two 8 Lamp 32W T8, replacing 1000W HID	\$150.00	Fixture					
Pulse Start Metal Halide 320W, replacing 400W Probe Start	\$30.00	Fixture					
Exterior or Garage HID to LED/Induction Lighting Retrofit (annual)	ual operating I	nours less than 8,7	760)				
LED or Induction replacing ≤ 175W HID	\$20.00	Fixture					
LED or Induction replacing 176W to 250W HID	\$35.00	Fixture					
LED or Induction replacing 251W to 400W HID	\$55.00	Fixture					
Exterior or Garage HID to LED/Induction Lighting Retrofit (ann	ual operating l	nours equal to 8,76	50)				
LED or Induction replacing ≤ 175W HID	\$50.00	Fixture					
LED or Induction replacing 176W to 250W HID	\$75.00	Fixture					
LED or Induction replacing 251W to 400W HID	\$120.00	Fixture					
Exit Sign Conversion							
LED Exit Signs Electronic Fixtures Retrofit or Replacement	\$12.50	Fixture					
Traffic Signal Conversion							
LED Auto Traffic Signals	\$20.00	Signal					
LED Pedestrian Signals	\$15.00	Signal					



LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not listed as one of the measures below, you may apply for a custom measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated	
Controls					
Occupancy Sensors (≤ 500 Watts Controlled)	\$20.00	Sensor			
Occupancy Sensors (> 500 Watts Controlled)	\$50.00	Sensor			
Central Lighting Control (\$0.06 per Sq. Ft.)	\$600.00	10,000 Sq. Ft.			
Switching Controls for Multilevel Lighting (\$0.05 per Sq. Ft.)	\$500.00	10,000 Sq. Ft.			
Daylight Sensor Controls (\$0.09 per Sq. Ft.)	\$900.00	10,000 Sq. Ft.			
Exterior Lighting Bi-level Control w/Override, 150W to 1000W HID	\$50.00	Fixture			
Miscellanious Lighting		- .			
Light Tube	\$35.00	Tube			
De-lamping (Note: a Reservation Application is <i>required</i> for all T12 2ft Lamp Removal (combined with T8/ballast retrofit)	De-lamping po	rojects) Lamp Removed			
T12 3ft Lamp Removal (combined with T8/ballast retrofit)	\$4.00	Lamp Removed			
T12 4ft Lamp Removal (combined with T8/ballast retrofit, linear or U-lamp)	\$5.00	Lamp Removed			
T12 8ft Lamp Removal (combined with T8/ballast retrofit)	\$10.00	Lamp Removed			
T8 2ft Lamp Removal (combined with HPT8 or LWHPT8 ballast retrofit)	\$1.50	Lamp Removed			
T8 3ft Lamp Removal (combined with HPT8 or LWHPT8 ballast retrofit)	\$2.00	Lamp Removed			
T8 4ft Lamp Removal (combined with HPT8 or LWHPT8 ballast retrofit, linear or U-lamp)	\$2.50	Lamp Removed			
Total Lighting Incentives:					

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

Note: PCB ballasts and certain lamps are hazardous materials and should be disposed of properly.



LIGHTING SPECIFICATIONS

All lighting projects are expected to comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels or the local code. All final applications must include manufacturers' specification sheets for lamps and ballasts. All incentives are for one-for-one replacements except as noted.

Compact Fluorescent Lamps, Screw-In (≤ 31 Watts)

Incentives are available for the replacement of incandescent/halogen lamps with CFLs that are ENERGY STAR® rated or that meet ENERGY STAR® criteria. The lamps must have a luminous efficacy of ≥ 50 lumens per watt (LPW). Incentive is per lamp. Note: This incentive is not available for CFLs purchased at retail stores participating in the DTE Energy CFL discount program. Incentives for CFLs purchased from those retailers is included in the discounted price.

Compact Fluorescent Lamps, Screw-In (> 31 Watts)

Incentives are available for the replacement of incandescent/halogen lamps with high wattage CFLs. The new lamp must have a luminous efficacy of ≥ 65 lumens per watt (LPW). Incentive is per lamp. Note: This incentive is not available for CFLs purchased at retail stores participating in the DTE Energy CFL discount program. Incentives for CFLs purchased from those retailers is included in the discounted price.

Compact Fluorescent Reflector Flood Lamps

Incentives are available to install CFL reflector flood lamps to replace incandescent/halogen reflector flood lamps. The CFL reflector flood lamps must have a luminous efficacy of ≥ 33 lumens per watt (LPW). Incentive is per lamp. Note: This incentive is not available for CFL's purchased at retail stores participating in the DTE Energy CFL discount program. Incentives for CFLs purchased from those retailers is included in the discounted price.

Compact Fluorescent Fixtures

Incentives are available for upgrades from incandescent/halogen fixtures to interior, hardwired, compact fluorescent fixtures. Replacement fixtures must be new fixtures or modular hardwired retrofits with hardwired electronic ballasts. The compact fluorescent ballast must be programmed start or programmed rapid start with a power factor (PF) ≥ 0.90 and a total harmonic distortion (THD) ≤ 20%. Incentive is per

42W 8-Lamp Compact Fluorescent High Bay Fixture

Incentives are available in high-bay applications (ceiling heights over 15 feet) for replacing any fixtures greater than or equal to 350W with 42 Watt, 8 lamp compact fluorescent fixtures. Replacement fixtures must contain specular reflectors and electronic ballasts with a power factor (PF) ≥ 0.90. Incentive is per fixture.

ENERGY STAR® Qualified LED Recessed Down Light

Incentives are available to replace incandescent/halogen recessed down lights in ceiling or wall with ENERGY STAR® qualified LED recessed down lights. Replacement lights must have a minimum efficacy of 35 lumens per watt. Incentive is per lamp. Note: This incentive is not available for lamps purchased at retail stores participating in the DTE Energy lamp discount program. Incentive for lamps purchased from those retailers is included in the discounted price.

ENERGY STAR® Qualified MR16 LED Lamps

Incentives are available to replace incandescent/halogen lamps, in non-recessed applications, with ENERGY STAR® qualified MR16 LED Lamps. Replacement lamps must have a minimum efficacy of 35 lumens per watt. Replacement lamps must be 6 Watts or less. Incentive is per lamp. Note: This incentive is not available for lamps purchased at retail stores participating in the DTE Energy lamp discount program. Incentive for lamps purchased from those retailers is included in the discounted price.

ENERGY STAR® Qualified PAR LED Lamps

Incentives are available to replace incandescent/halogen lamps, in non-recessed applications, with ENERGY STAR® qualified PAR LED Lamps. Replacement lamps must have a minimum efficacy of 35 lumens per watt. Replacement lamps must be 20 Watts or less. Incentive is per lamp. Note: This incentive is not available for lamps purchased at retail stores participating in the DTE Energy lamp discount program. Incentive for lamps purchased from those retailers is included in the discounted price.

Standard Linear Fluorescent Retrofit

Incentives are available for replacing existing T12 lamps and magnetic ballasts with T8 lamps and electronic ballasts. The new lamps must have a color rendering index (CRI) ≥ 80. The new electronic ballast must have an operating frequency ≥ 20 kHz, be UL listed, and warranted against defects for a minimum of 5 years. Ballasts must also have a power factor (PF) ≥ 0.90. Ballasts for 4-foot lamps must have total harmonic distortion (THD) ≤ 20 % at full power output. For 2 and 3-foot lamps, ballasts must have THD ≤ 32 % at full light output. Incentive is per fixture.



LIGHTING SPECIFICATIONS

U-Lamp Fluorescent Retrofit (T12 U-Lamp to T8 U-Lamp)

Incentives are available for replacing existing T12 U-Lamps and magnetic ballasts with T8 U-Lamps and electronic ballasts. The new lamps must have a color rendering index (CRI) ≥ 80. The new electronic ballast must have an operating frequency ≥ 20 kHz, a power factor (PF) ≥ 0.90 and a total harmonic distortion (THD) ≤ 20% at full power output. Ballast must also be UL listed and warranted against defects for a minimum of 5 years. Incentive is per fixture.

U-Lamp Fluorescent Retrofit (T12 U-Lamp to T8 Linear Lamp)

Incentives are available for replacing existing T12 U-Lamps and magnetic ballasts with 2ft linear T8 lamps and electronic ballasts. The new lamps must have a color rendering index (CRI) ≥ 80. The new electronic ballast must have an operating frequency ≥ 20 kHz, a power factor (PF) ≥ 0.90 and a total harmonic distortion (THD) ≤ 32% at full power output. Ballast must also be UL listed and warranted against defects for a minimum of 5 years. Incentive is per fixture.

High Output T8 Lamp and Ballast replacing T12HO Fluorescent Lamp

Incentives are available for replacing existing T12 lamps and magnetic ballasts with T8HO lamps and electronic ballasts. The replacement lamps must have a CRI ≥ 80. The electronic ballast must be high frequency (≥ 20 kHz), UL listed, and warranted against defects for 5 years. Ballasts must have a power factor (PF) ≥ 0.90. Ballasts for 4-foot lamps must have total harmonic distortion (THD) ≤ 20% at full light output. Incentive is per fixture.

Low Wattage T8 Lamp, 4ft Linear or U-Lamp (Lamps Only - Reservation Application is required for all LW T8 lamp only projects.)

Incentives are available for replacing 32 Watt T8 lamps with reduced (low) wattage T8 lamps when an electronic ballast is already present. The lamps must be reduced wattage in accordance with the Consortium for Energy Efficiency© (CEE) specifications (www.cee1.org) and as summarized in Table 2 below. Low wattage lamps must be either 25W or 28W and CEE Listed. Qualified products can be found at http://www.cee1.org/com/com-lt/com-lt-main.php3. Incentive is per lamp.

High Performance 4-foot T8 Lamp and Ballast

Incentives are available for replacing existing T12 or T12HO lamps and magnetic ballasts or standard T8 lamps and electronic ballasts with high performance T8 lamps and electronic ballasts. Replacement fixtures must be high performance in accordance with the Consortium for Energy Efficiency© (CEE©) high performance T8 specification, available at www.cee1.org, which is summarized in Table 1 below. A list of qualified lamps and ballasts can be found at: http://www.cee1.org/com/com-lt/com-lt-main.php3. Both the lamp and ballast must meet the specification in order to be eligible for an incentive. Incentive is per fixture.

Low Wattage 4-foot T8 Lamp and Ballast

Incentives are available for replacing T12 and T8 systems with reduced (low) wattage lamp and electronic ballast systems. The lamps and ballasts must meet the Consortium for Energy Efficiency© (CEE) specification available at www.cee1.org and summarized in Table 2 on the following page. Qualified lamp and ballast products can be found at http://www.cee1.org/com/com-lt/com-lt-main.php3. Both the lamp and ballast must qualify in order to receive an incentive for the system. Incentive is per fixture.

Table 1: High Performance T8 Specifications

Web Defended To add To Observation							
High Performance T8 and T5 Characteristics							
Mean System Efficacy	≥ 90 Mean	0 Mean Lumens per Watt (MLPW) for Instant Start Ballasts					
Wican Cystem Emedey	≥ 88 MLPV	/ for Programmed F	Rapid Start Ballasts				
		Performand	e Characteristics for L	amps			
Color Rendering Index (CRI)	≥ 80						
Minimum Initial Lamp Lumens	≥ 3100 Lun	nens *					
Lamp Life	≥ 24,000 H	ours					
Lumen Maintenance or	≥ 94% or						
Minimum Mean Lumens	≥ 2900 Mea	an Lumens					
		Performance	e Characteristics for Ba	allasts			
			Instant Start	Ballast (BEF)			
	Lamps	Low BF ≤ 0.85	Norm 0.85 < BF ≤ 1.0	High BF ≥ 1.01			
	1	> 3.08	> 3.11	NA			
Ballast Efficacy Factor (BEF)	2	> 1.60	> 1.58	> 1.55			
Ballast Efficacy Factor (BEF)	3	≥ 1.04	≥ 1.05	≥ 1.04			
BEF = (BFx100)/Ballast Input	4	≥ 0.79	≥ 0.80	≥ 0.77			
Watts			Programmed Rapid	l Start Ballast (BEF)			
Watts	1	≥ 2.84	≥ 2.84	NA			
	2	≥ 1.48	≥ 1.47	≥ 1.51			
	3	≥ 0.97	≥ 1.00	≥ 1.00			
	4	≥ 0.76	≥ 0.75	≥ 0.75			
Ballast Frequency			20 to 33 kHz	z or ≥ 40 kHz			
Power Factor		≥ 0.90					
Total Harmonic Distortion		≤ 20%					

For lamp with color temperatures ≥ 4500k. 2950 minimum initial lamp lumens are allowed.



LIGHTING SPECIFICATIONS

Table 2: Reduced (Low) Wattage 4-foot Lamps and Ballasts

Performance Characteristics for Lamps(1)						
Mean System Efficacy	≥ 90 MLPW					
Color Rendering Index (CRI)	2	: 80				
Minimum Initial Lamp Lumens	≥ 2585 Lun	nens for 28 W				
William Initial Earlip Earliens	≥ 2400 Lun	nens for 25 W				
Lamp Life(2)	≥ 18,000 hrs at th	rree hours per start				
Lumen Maintenance - or - Minimum		-% -or-				
Mean Lumens(3)		nens for 28 W				
Wican Editions(5)	≥ 2256 Lun	nens for 25 W				
Performance Characterist	tics for 28 and 25 W	Ballasts				
Ballast Frequency	20 to 33 kH	Iz or ≥ 40 kHz				
Power Factor	≥	0.90				
Total Harmonic Distortion	≤	20%				
Performance Characteristics	Performance Characteristics for Ballasts(4), 28 W systems					
Ballast Efficiency Factor (BEF)	Instant Star	t Ballast (BEF)				
BEF = [BF x 100]/Ballast Input Watts	Lamps	All BEF Ranges				
Based on: (1) Type of ballast	1	≥ 3.52				
(2) No. of lamps driven by ballast	2	≥ 1.76				
(3) Ballast Factor	3	≥ 1.16				
(o) Ballact 1 deter	4	≥ 0.88				
Performance Characteristics	s for Ballasts(4), 25	W systems				
Ballast Efficiency Factor (BEF)	Instant Star	t Ballast (BEF)				
BEF = [BF x 100]/Ballast Input Watts Based on:	Lamps	All BEF Ranges				
(1) Type of ballast	1	≥ 3.95				
(2) No. of lamps driven by ballast	2	≥ 1.98				
(3) Ballast Factor	3	≥ 1.32				
(-)	4	≥ 0.99				

- (1) Lamps ≥ 4500 K and/or 24,000 hours have a system efficacy specified ≥ 88 MLPW. Minimum initial and mean lumen levels are specified as follows: for 28 W lamps, limits are 2600/2340, for 25 W lamps, limits are 2300/2185 respectively.
- (2) Life rating is based on an Instant Start Ballast tested in accordance with ANSI protocols. When used for Programmed Start Ballast, life may be increased depending upon the operating hours per start.
- (3) Mean lumens measures at 7,200 hours
- (4) Multi-Voltage Ballasts must meet or exceed the listed Ballast Efficiency Factor when operated on at least one of the intended operating voltages.

T5HO and T8 (4ft lamps) Replacing HID

Incentives are available for replacements of HID fixtures with T8 or T5HO lamps and electronic ballasts. The T8 or T5HO lamps must have a color rendering index (CRI) ≥ 80 [The electronic ballast must be high frequency (≥ 20 kHz), UL listed, and warranted against defects for 5 years. Ballasts must have a power factor (PF) ≥ 0.90. Ballasts must have total harmonic distortion (THD) ≤ 20% at full light output]. This incentive is available for high-bay and low-bay fluorescent applications. Incentive is per fixture replaced.

Pulse Start Metal Halide

Incentives are available for replacing existing 400W probe start HID fixtures with 320W pulse start HID fixtures in high-bay applications. Incentive is per fixture.

Exterior or Garage HID to LED/Induction Lighting Retrofit (annual operating hours less than 8,760)

Incentives are available for replacing existing HID fixtures with LED or induction fixtures. Existing fixtures must operate less than 8,760 hours per year (less than 24 hrs/day). Fixture replacement must result in at least a 40% power reduction. LED fixtures must have a minimum efficacy of 35 lumens per watt. Incentive is per fixture.

Exterior or Garage HID to LED/Induction Lighting Retrofit (annual operating hours equal to 8,760)

Incentives are available for replacing existing HID fixtures with LED or induction fixtures. Existing fixtures must operate 8760 hours per year (24 hrs/day). Fixture replacement must result in at least a 40% power reduction. LED fixtures must have a minimum efficacy of 35 lumens per watt. Incentive is per fixture.

Incentives are available for high-efficiency exit signs replacing or retrofitting an existing incandescent exit sign. Electroluminescent, T1, and LED exit signs are eligible. Non-electrified and remote exit signs are not eligible. All replacement exit signs must be UL or ETL listed, have a minimum lifetime of 10 years, and have an input wattage ≤ 5 Watts per face or be ENERGY STAR® listed. Incentive is per sign.



LIGHTING SPECIFICATIONS

LED Traffic and Pedestrian Lights

Incentives are available for LED traffic lights on a per-signal basis (including arrows) that replace or retrofit an existing incandescent traffic signal. At minimum, red and green lamps must be retrofitted to qualify for the signal incentive. LED signals must have a wattage of ≤ 17 watts per signal. Incentives are not available for spare lights. Lights must be hardwired, with the exception of pedestrian hand signals. Incentive is per signal.

Occupancy Sensors

Incentives are available for occupancy sensors for low occupancy interior areas, which automatically turn lights on when movement is detected. The minimum amount of time for the lights to stay on when no movement is sensed (delay set time) should be 10 minutes. The sensors can be passive infrared (PIR) or ultrasonic. All sensors should be hard-wired and control interior lighting fixtures. To assist in rebate processing, provide the inventory of the controlled fixtures with the Final Application. Incentive is per sensor.

Central Lighting Control

Incentives are available for automated central lighting control systems with override capabilities. This measure includes time clocks, package programmable relay panels, and complete building automation controls. Photo-sensors may also be incorporated into the central lighting control system. Incentive is per 10,000 Sq. Ft. of controlled area. Decimal values are allowed for areas that are not multiples of 10,000 square

Switching Controls for Multilevel Lighting

Incentives are available to install switching controls for multilevel lighting which may be used with daylight or occupancy sensors. If combined with daylight sensors, the controls must be commissioned in order to ensure proper sensor calibration and energy savings. This measure is applicable to spaces that require various lighting schemes such as classrooms, auditoriums, conference rooms and warehouses with skylights. Incentive is per 10,000 Sq. Ft. of controlled area. Decimal values are allowed for areas that are not multiples of 10,000 square feet.

Daylight Sensor Controls

Incentives are available for daylight sensor controls in spaces with reasonable amounts of sunlight exposure and areas where task lighting is not critical. The controls can be on/off, stepped, or continuous (dimming). The on/off controller should turn off artificial lighting when the interior illuminance meets the desired indoor lighting level. Daylight sensor controls are required to be commissioned in order to ensure proper sensor calibration and energy savings. Incentive is per 10,000 Sg. Ft. of controlled area. Decimal values are allowed for areas that are not multiples of 10,000 square feet. To be eligible for incentives, there must be no previously existing daylight control.

Exterior Lighting, Bi-Level Control with Override

Incentives are available for retrofitting existing, exterior HID lighting with bi-level controls that reduce lighting levels by at least 50% when the space is unoccupied. The HID lighting must have an electronic ballast capable of reduced power levels, and be coupled with motion sensors to bring the light back to full lumen output for security reasons. Eligible controls include on-off controls, dimmers, and hi-lo ballast controls. This measure is applicable to exterior fixtures that are on during the night. Incentive is per fixture.

Incentives are available for new light tubes (tubular skylights) 10 inches to 21 inches in diameter. This measure is applicable to spaces that normally require electric lighting during peak hours (1 - 4 p.m. weekdays during the summer). The light tube must still allow an adequate amount of light during overcast conditions and must be coupled to daylight sensing controls. Incentive is per tube.

De-lamping (Reservation Application is Required for all De-lamping Projects)

Incentives are available for the permanent reduction of the number of fluorescent lamps per fixture. This incentive must be combined with incentives for upgrades from T12 to T8, LWT8, or HPT8 or from T8 to LWHPT8 or HPT8. The T8 ballasts and lamps must meet program specifications. Customers are responsible for determining whether reflectors are necessary in order to maintain adequate lighting levels. Lighting retrofits are expected to meet the Illuminating Engineering Society of North America (IESNA) recommended light levels. Unused lamps, lamp holders and ballasts must be removed permanently from the fixture and disposed of in accordance with local regulations. Removal of lamps from a T12 or T8 fixture that is not being retrofitted with LWT8 or HPT8 lamps is not eligible for this incentive, but may be eligible for other incentives. Incentive is per lamp removed.



HVAC (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type		Size Category	Qualifying Efficiency	Incentive (per ton)
	(I)	≤ 65,000 Btu/h (5.4 tons) - 1 Phase	14.0 SEER	\$10.00
	(II)	≤ 65,000 Btu/h (5.4 tons) - 3 Phase	13.0 SEER	\$10.00
	(III)	> 65,000 Btu/h (5.4 tons), ≤ 135,000 Btu/h (11.3 tons)	11.0 EER	\$15.00
Unitary and Split Air Conditioning Systems	(IV)	> 135,000 Btu/h (11.3 tons), ≤ 240,000 Btu/h (20 tons)	11.0 EER	\$15.00
	(V)	> 240,000 Btu/h (20 tons), ≤ 760,000 Btu/h (63.3 tons)	10.0 EER	\$10.00
	(VI)	> 760,000 Btu/h (63.3 tons)	10.0 EER	\$10.00
	(I)	≤ 65,000 Btu/h (5.4 tons) - 1 Phase	14.0 SEER	\$20.00
	(II)	≤ 65,000 Btu/h (5.4 tons) - 3 Phase	13.0 SEER	\$10.00
Air Source Heat Pumps	(III)	> 65,000 Btu/h (5.4 tons), ≤ 135,000 Btu/h (11.3 tons)	11.0 EER	\$20.00
All Source neat rumps	(IV)	> 135,000 Btu/h (11.3 tons), ≤ 240,000 Btu/h (20 tons)	10.0 EER	\$25.00
	(V)	>240,000 Btu/h (20 tons)	10.0 EER	\$30.00
	(I)	≤ 17,000 Btu/h (1.4 tons)	11.5 EER	\$10.00
Water Loop Heat Pump	(II)	> 17,000 Btu/h (1.4 tons), ≤ 65,000 Btu/h (5.4 tons)	12.3 EER	\$8.00
	(III)	> 65,000 Btu/h (5.4 tons), ≤ 135,000 Btu/h (11.3 tons)	12.3 EER	\$8.00
Room Air Conditioners	(l)	≤14,000 Btu/h (1.17 tons)	Energy Star (Tier 1)	\$10.00
Room Air Conditioners	(II)	> 14,000 Btu/h (1.17 tons)	Energy Star (Tier 1)	\$25.00
Package Terminal Air Conditioner		All	9.2 EER	\$5.00
Package Terminal Heat Pump		All	9.0 EER	\$10.00

Equipment Type & Size Category	Make and Model	EER	SEER or IPLV	HSPF or COP	Unit Size (tons) (A)	Quantity (B)	Incentive Per Unit (C)	Incentive (A*B*C)

Equipment Type	Size Category	Q	Qualifying Efficiency Category	Qualifying Incentive (per ton)
Ground-Source Heat Pump (GSHP)	≤ 135,000 Btu/h	(I)	EER = 17	\$22.50
Glouliu-Source Heat Fullip (GSHF)	(11.3 tons)	(II)	EER = 19	\$30.00
Ground Source Heat Pump	≤ 135,000 Btu/h	(I)	EER = 17	\$150.00
(replacing Air Source Heat Pump)	(11.3 tons)	(II)	EER = 19	\$175.00

Equipment Type & Qualifying Efficiency Category	Make and Model	EER	kW/ton Full Load	kW/ton IPLV	Unit Size (tons) (A)	Quantity (B)	Incentive Per Ton (C)	Incentive (A*B*C)



HVAC (ELECTRIC) INCENTIVES WORKSHEET

Measure Name	Unit Definition	Size Category	Incentive Per Unit	# of Units	Incentive Calculated
Programmable Thermostat (Air Conditioning)	Thermostat	ALL	\$20.00		
Energy Management for chilled water systems	1,000 Sq. Ft. of Conditioned Floor Area	ALL	\$5.00		
Setback-Setup Controls (Air Conditioning)	1,000 Sq. Ft. of Conditioned Floor Area	ALL	\$20.00		
Hotel Guestroom Energy Management Control (Air Conditioning)	Room	ALL	\$30.00		
		≤ 100 tons	\$1.00		
Obilla d Marta a Basada Air	Ton	> 100 tons, ≤ 200 tons	\$1.00		
Chilled Water Reset - Air Cooled		> 200 tons, ≤ 300 tons	\$1.00		
Coolea		> 300 tons, ≤ 400 tons	\$1.00		
		> 400 tons, ≤ 500 tons	\$1.00		
Chilled Water Reset -		≤ 1,000 tons	\$1.00		
Water Cooled	Ton	> 1,000 tons, ≤ 2,000 tons	\$0.50		
Water Goolea		> 2,000 tons, ≤ 3,000 tons	\$0.50		
Variable Frequency Drive - VAV Supply or Return Air Fan	Fan HP	ALL	\$60.00		
Variable Frequency Drive - Secondary Chilled Water Pump	Pump HP	ALL	\$60.00		
Economizer	Ton	ALL	\$8.00		
Cool Roof (\$0.02 per Sq. Ft.)	1000 Sq. Ft. Roof Area	ALL	\$20.00		
High Performance Glazing (\$0.30 per Sq.Ft.)	100 Sq.Ft. of Glazing	ALL	\$30.00		
Window Film (\$0.30 per Sq. Ft.)	100 Sq. Ft. of Film	ALL	\$30.00		

Total HVAC (Electric) Incentives:



AIR-COOLED CHILLERS INCENTIVES WORKSHEET

Equipment Type	, ,	Qualifying Full Load Efficiency (EER or Btu/Wh)		fying IPLV or Btu/Wh)	Incentive (per ton)
	СОР	Equivalent EER	СОР	Equivalent EER	
			3.41	11.63	\$25.00
	2.8	9.55	3.89	13.27	\$25.00
			4.24	14.47	\$25.00
D : (: 01:11			3.36	11.46	\$25.00
Reciprocating Chiller	3.08	10.51	3.76	12.83	\$25.00
	3.00	10.51	4.28	14.60	\$25.00
			4.67	15.93	\$25.00
			3.66	12.49	\$25.00
	3.36	11.46	4.1	13.99	\$25.00
	3.30		4.67	15.93	\$25.00
			5.09	17.37	\$25.00
			3.46	11.80	\$25.00
	2.8	9.55	3.64	12.42	\$25.00
			4.75	16.21	\$25.00
			3.36	11.46	\$25.00
	3.08	10.51	3.8	12.97	\$25.00
Screw Chiller	3.00	10.51	4	13.65	\$25.00
			5.22	17.81	\$25.00
			3.66	12.49	\$25.00
	3.36	11.46	4.15	14.16	\$25.00
	3.30	11.40	4.42	15.08	\$25.00
			5.69	19.41	\$25.00

Equipment Type	Make and Model	Installed Full Load Efficiency (COP)	Unit Size (tons) (A)	Quantity (B)	Incentive Per Ton (C)	Incentive (A*B*C)

Total Air-Cooled Chillers Incentives:	



WATER-COOLED CHILLERS INCENTIVES WORKSHEET

Equipment Type and Capacity Range (tons)	Qualifying Full Load Efficiency (kW/ton)	Qualifying IPLV (kW/ton)	Incentive (per ton)
		0.34	\$45.00
		0.40	\$40.00
	0.56	0.43	\$35.00
		0.46	\$30.00
		0.53	\$25.00
Centrifugal Chiller		0.38	\$30.00
Centinugai Chillei		0.45	\$25.00
≤ 150 tons	0.63	0.48	\$20.00
≥ 150 tons		0.51	\$15.00
		0.60	\$10.00
		0.42	\$20.00
	0.70	0.50	\$15.00
	0.70	0.53	\$10.00
		0.57	\$5.00
		0.30	\$45.00
		0.36	\$40.00
	0.51	0.39	\$35.00
		0.41	\$30.00
		0.48	\$25.00
Centrifugal Chiller		0.34	\$30.00
-	0.57	0.40	\$25.00
>150 tons,		0.43	\$20.00
≤ 300 tons		0.46	\$15.00
		0.54	\$10.00
		0.38	\$20.00
	0.00	0.45	\$15.00
	0.63	0.48	\$10.00
		0.51	\$5.00
		0.28	\$45.00
		0.33	\$40.00
	0.46	0.35	\$35.00
		0.37	\$30.00
		0.44	\$25.00
Contributed Chiller		0.31	\$30.00
Centrifugal Chiller		0.37	\$25.00
> 300 tons	0.52	0.39	\$20.00
> 300 tons		0.42	\$15.00
		0.49	\$10.00
		0.35	\$20.00
	0.50	0.41	\$15.00
	0.58	0.44	\$10.00
		0.47	\$5.00



WATER-COOLED CHILLERS INCENTIVES WORKSHEET

Equipment Type and Capacity Range (tons)	Qualifying Full Load Efficiency (kW/ton)	Qualifying IPLV (kW/ton)	Incentive (per ton)
(conc)		0.38	\$50.00
		0.41	\$45.00
	0.00	0.44	\$40.00
	0.63	0.47	\$35.00
		0.50	\$30.00
		0.56	\$25.00
		0.43	\$40.00
Screw Chiller		0.46	\$35.00
	0.74	0.50	\$30.00
< 150 tons	0.71	0.53	\$25.00
		0.56	\$20.00
		0.63	\$15.00
		0.47	\$30.00
		0.51	\$25.00
	0.79	0.55	\$20.00
		0.59	\$15.00
		0.62	\$10.00
		0.34	\$50.00
		0.37	\$45.00
		0.40	\$40.00
	0.57	0.43	\$35.00
		0.45	\$30.00
		0.51	\$25.00
		0.39	\$40.00
Screw Chiller		0.42	\$35.00
Screw Crimer	0.65	0.45	\$30.00
150-300 tons		0.48	\$25.00
130-300 10113		0.40	\$20.00
		0.57	\$15.00
		0.43	\$30.00
		0.43	\$25.00
	0.72		\$20.00
	0.72	0.50 0.54	\$15.00
			\$10.00
		0.57 0.31	\$50.00
		0.33	\$50.00 \$45.00
		0.36	\$45.00 \$40.00
	0.51	0.38	\$40.00 \$35.00
		0.40	\$30.00
		0.46	\$25.00
Corou Chiller		0.35	\$40.00
Screw Chiller		0.37	\$35.00
> 200 +	0.58	0.40	\$30.00
> 300 tons		0.43	\$25.00
	<u> </u>	0.45	\$20.00
		0.51	\$15.00
		0.38	\$30.00
	0.04	0.42	\$25.00
	0.64	0.45	\$20.00
		0.48	\$15.00
		0.51	\$10.00



WATER-COOLED CHILLERS INCENTIVES WORKSHEET

Equipment Type	Make and Model	Installed Full Load Efficiency (kW/ton)	Installed IPLV (kW/ton)	Unit Size (tons) (A)	Quantity (B)	Incentive Per Ton (C)	Incentive (A*B*C)

Total Water-Cooled Chillers Incentives:	



HVAC (ELECTRIC) SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Unitary and Split Air Conditioning Systems and Air Source Heat Pumps

Incentives are available to install replacement air conditioning systems or air source heat pumps that meet or exceed the qualifying cooling efficiency shown in Table 1 below. They can be either split systems or single packaged units. Water-cooled systems, evaporative coolers, and water source heat pumps are not eligible for this incentive, but may be eligible for a custom incentive. All packaged and split system cooling equipment must meet Air Conditioning, Heating and Refrigeration Institute (AHRI) standards (210/240, 320 or 340/360), be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HFC). Split system efficiency must be for air handling and condensing unit combined. Disposal of the existing unit must comply with local codes and ordinances. Incentive is per ton of refrigeration.

Table 1: Efficiencies for Unitary and Split A/C Systems and Air-Source Heat Pumps

Equipment Type	Size Category	Qualifying System Efficiency
	≤ 65,000 Btu/h (5.4	14.0 SEER
	tons)	The GEER
	≤ 65,000 Btu/h (5.4	13.0 SEER
	tons)	
	> 65,000 Btu/h (5.4	11.0 EER
Unitary and Split Air Conditioning	tons),	
Systems	> 135,000 Btu/h (11.3	11.0 EER
	tons),	
	> 240,000 Btu/h (20	10.0 EER
	tons)	10.0 EET
	> 760,000 Btu/h	10.0 EER
	(63.3 tons)	10.0 EER
	≤ 65,000 Btu/h (5.4	14.0 SEER
	tons)	14.0 SELIX
	≤ 65,000 Btu/h (5.4	13.0 SEER
	tons)	13.0 SEER
Air Source Heat Pumps	> 65,000 Btu/h (5.4	11.0 EER
7 th Course Fleat Fullips	tons),	11.0 EER
	> 135,000 Btu/h (11.3	10.0 EER
	tons),	10.0 EER
	> 240,000 Btu/h (20.0	10.0 EER
	tons)	10.0 LLIX

Water Loop Heat Pumps

Incentives are available to install replacement water loop heat pumps that meet or exceed the qualifying cooling efficiency shown in Table 2 below. All packaged cooling equipment must meet applicable Air Conditioning Heating and Refrigeration Institute (AHRI) Standards (210/240, 320 or 340/360), be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HFC). Disposal of the existing unit must comply with local codes ordinances. Incentive is per ton of refrigeration.

Table 2: Efficiencies for Water Loop Heat Pumps

Table 1 - American Control of the Co					
Size Category	Qualifying Efficiency				
≤ 17,000 Btu/h (1.4 tons)	11.5 EER				
> 17,000 Btu/h (1.4 tons)	12.3 EER				



HVAC (ELECTRIC) SPECIFICATIONS

Room Air Conditioners

Incentives are available to install replacement room air conditioning units that are through-the-wall (or built-in), self-contained units that are 2 tons (24,000 Btu/h) or less and that meet ENERGY STAR® criteria. These units are without reverse cycle (i.e., heating). Disposal of existing units must comply with local codes and ordinances. Incentive is per ton of refrigeration.

Packaged Terminal AC and Heat Pump Units (PTAC/PTHP)

Incentives are available to install replacement packaged terminal air conditioners and heat pumps that are through-the-wall, self contained units of 2 tons (24,000 Btu/h) or less. The qualifying efficiencies are provided in Table 3 below. All EER values must be rated at 95°F outdoor dry-bulb temperature. Disposal of existing unit must comply with local codes and ordinances. Incentive is per ton of refrigeration.

Table 3: Qualifying Package Terminal Unit Efficiencies

Equipment Type	Qualifying Efficiency
Packaged Terminal Air Conditioner	9.2 EER
Packaged Terminal Heat Pump	9.0 EER

Ground-Source Heat Pumps

Incentives are available to install ground source heat pumps (GSHP) that replace existing GSHP or air source heat pumps. New GSHP must have a capacity less than or equal to 135,000 Btu/h that have an Energy Efficiency Ratio (EER) of \geq 17. All equipment must meet applicable Air Conditioning Heating and Refrigeration Institute (AHRI) Standards (325 or 330) and be UL listed. EER is the efficiency at standard (ARI/ISO) conditions of 77°F entering water for closed-loop models and 59°F entering water for open-loop systems. Disposal of the existing unit must comply with local codes and ordinances. Incentive is per ton of refrigeration.

Programmable Thermostat With Setback/Setup (Air Conditioning)

Incentives are available for programmable thermostats that replace any non-programmable thermostat to automatically adjust the temperature at pre-selected times. Thermostats must be capable of maintaining two separate programs for weekdays and weekends and up to four temperature settings for each program. Incentive is per thermostat.

Energy Management System for Chilled Water Systems

Incentives are available for energy management systems (EMS) or upgrades that include combining chilled water reset controls with hydronic hot water, chilled water and condenser water pump on/off controls to turn the pumps off when heating and/or cooling are not needed. The pre-existing system must operate 8,760 hours per year with a constant chilled water set point and a constant pump flow rate. Upgrades must include hardware installation for new controls. Incentive is per 1,000 Sq. Ft. of the conditioned floor area affected by the EMS upgrade. Decimal values are allowed for areas that are not multiples of 1,000 square feet. Note: This incentive cannot be combined with incentives for Chilled Water Reset.

Setback - Setup Controls (Air Conditioning)

Incentives are available for customers who install setback controls utilizing an EMS. Previous controls must have no setback capability. Setback - Setup must be at least 8 degrees and for at least 56 hours a week. Replacement of programmable thermostats with the EMS is not eligible. Setback using programmable thermostats are not eligible for this incentive. Projects implementing demand controlled ventilation may be eligible for other incentives in addition to the Setback incentive. Cannot be combined with Energy Management System Incentive.

Hotel Guestroom Energy Management Control (Air Conditioning)

Incentives are available for new sensors that control PTAC's, heat pumps, and other HVAC units for individual hotel rooms. Sensors must be controlled by automatic occupancy detectors. Sensors controlled by a front desk system are not eligible. Replacement or retrofits of existing occupancy-based controls are not eligible for this incentive. Incentive is per guest room controlled. For multi-room suites, the incentive is per room controlled, when a sensor is installed in each room.

Chilled Water Reset - Air and Water Cooled Chillers

Incentives are available for retrofitting existing chilled water systems with chilled water reset controls that allow the chilled water temperature to increase by at least 5°F during periods of low-flow (low load). Upgrades must include hardware installation for new controls and the system must include an economizer. This incentive is based on the capacity of the chiller affected by the control upgrade. Note: This incentive cannot be combined with incentives for Energy Management Systems.



HVAC (ELECTRIC) SPECIFICATIONS

Variable Frequency Drives - VAV Supply and Return Air Fans and Secondary Chilled Water Pumps

Incentives are available for adding variable frequency drives (VFD) to existing supply and return air fans of variable air volume (VAV) comfort cooling air handling systems. Redundant or back-up fans are not eligible. Integrated VFD's on new equipment are not eligible for this incentive. The installation of a VFD must accompany the permanent removal or disabling of any throttling devices such as inlet vanes, bypass dampers, and throttling valves. Incentive is per horsepower (hp) of the supply or return air fan.

Incentives are available for adding variable frequency drives (VFD) to existing secondary chilled water pumps of comfort cooling chilled water systems having a primary-secondary pumping arrangement. Redundant or back-up pumps are not eligible. Integrated VFD's on new equipment are not eligible for this incentive. The installation of a VFD must accompany the permanent removal or disabling of any throttling devices such as inlet vanes and throttling valves. Incentive is per horsepower (hp) of the secondary chilled water pump.

Economizer

Incentives are available for retrofitting an existing HVAC system having a fixed outdoor air setting to include air-side economizers. Incentive is per refrigeration ton of the system upgraded with the economizer.

Cool Roofs

Incentives are available for upgrading existing roofs to cool roofs that have a solar absorptance of \leq 0.3 (reflectance of \geq 0.7) and that are installed over an area cooled by equipment using a vapor-compression refrigeration cycle. Spaces cooled by evaporative-cooling or absorption chillers are not eligible. Incentive is per 1000 square ft. of roof area. Decimal values are allowed for areas that are not multiples of 1,000 square feet.

High Performance Glazing

Incentives are available for high performance glazing having an east, west, or southern exposure and a minimum 5-year manufacturer's warranty. Glazing must replace clear double-pane glass or lesser performing glazing. The new glazing must have a Solar Heat Gain Coefficient (SHGC) value of ≤ 0.39 and a U-value of ≤ 0.57 . The space upgraded with the glazing must be cooled by equipment using a vapor-compression refrigeration cycle; spaces cooled by evaporative cooling or absorption chillers are not eligible. To convert Shading Coefficient (SC) to SHGC, multiply SC x 0.87. If SC is given in percent form, convert it to decimal form before multiplying. Incentive is per 100 square ft. of glazing replaced. Decimal values are allowed for areas that are not multiples of 100 square feet.

Window Film

Incentives are available for film applied to windows having an east, west, or southern exposure and a minimum 5-year manufacturer's warranty. Film must be applied to clear double-pane glass or lesser performing glazing. The installed window film must have a Solar Heat Gain Coefficient (SHGC) value of ≤ 0.39 and a U-value of ≤ 0.72 . The space upgraded with the glazing must be cooled by equipment using a vapor-compression refrigeration cycle; spaces cooled by evaporative cooling or absorption chillers are not eligible. To convert Shading Coefficient (SC) to SHGC, multiply SC x 0.87. If SC is given in percent form, convert it to decimal form before multiplying. Incentive is per 100 square ft. of glazing upgraded with the film. Decimal values are allowed for areas that are not multiples of 100 square feet.

Air-Cooled Chillers

Incentives are available for air-cooled chillers that have a rated Full Load Energy Efficiency Ratio (EER) and Integrated Part Load Value (IPLV) that is greater than or equal to the qualifying efficiencies shown on the measure worksheet page. The chillers must meet ARI Standards 550/590-2003, be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HFC). The ARI net capacity value must be used to determine the chiller tons. Incentive is per ton of refrigeration.

Water-Cooled Chillers

Incentives are available for water-cooled chillers that have a rated Full Load efficiency (kW/ton) and Integrated Part Load Value (IPLV) that are less than or equal to the qualifying efficiencies shown on the measure worksheet page. The chiller efficiency rating must be in accordance with ARI Standard 550/590-2003. The chillers must be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HFC or HCFC). The ARI net capacity value must be used to determine the chiller tons. Incentive is per ton of refrigeration.



GAS INCENTIVES WORKSHEET

HVAC

Equipment Typ	pe	Incentive	Unit	# of Units	Incentive Calculated
Leaking Steam Trap Repair or Replacement		\$100.00	Trap		
High Efficiency Boilers (Space Heating)		\$2.00	MBH		
	Equipment Size MBH				
Boiler Modulating Burner Control Retrofit		\$1,250.00	Unit		
Boiler Water Reset Control		\$400.00	Unit		
High Efficiency Furnace 95% Efficient		\$350.00	Unit		
High Efficiency Furnace 92% Efficient		\$250.00	Unit		
Pipe Wrap - Steam Boiler		\$6.00	Linear Foot		
Pipe Wrap - Hot Water Boiler		\$4.00	Linear Foot		
Infrared Heaters		\$5.00	MBH		
Roof Insulation (\$ 0.10 per Sq. Ft.)		\$100.00	1000 Sq. Ft. Roof Area		
Programmable Thermostat (Gas Heat)		\$50.00	Thermostat		
Chilled Water Reset		\$1.00	Ton		
Variable Frequency Drive on Secondary Chilled V	Vater Pump	\$10.00	Pump HP		
Energy Management for Chilled Water System (\$0.005 per Sq. Ft.)		\$5.00	1,000 SF of Conditioned Floor Area		
Setback/Setup Controls (Gas Heat)		\$50.00	1,000 SF of Conditioned Floor Area		
Demand Controlled Ventilation (\$0.05 per Sq. Ft.)		\$50.00	1,000 Sq. Ft.		
Hotel Guestroom Energy Management Control (G	Gas Heat)	\$35.00	Room		

Total HVAC (Gas) Incentives:



GAS INCENTIVES WORKSHEET

Miscellaneous Gas

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
High Efficiency Indirect Domestic Hot Water Heating System 90% Efficient	\$1.25	MBH		
Mid Efficiency Indirect Domestic Hot Water Heating System 84% Efficient	\$0.50	MBH		
Gas Water Heater (≤ 75 gal, < 75,000 Btu/hr)	\$35.00	Heater		
Gas Water Heater (>75 gal, > 75,000 Btu/hr)	\$150.00	Heater		
Gas Tankless Water Heater	\$150.00	Heater		
Domestic Hot Water Pipe Wrap	\$2.00	Linear Foot		
High Efficiency Pool Heater (gas heat)	\$2.00	MBH		
Pool Covers	\$0.50	Sq. Ft.		
Furnace Tube Inserts	\$75.00	Insert		
High Efficiency Clothes Washer (Gas Water Heat, Electric Dryer)	\$50.00	Washer		
High Efficiency Clothes Washer (Gas Water Heat, Gas Dryer)	\$50.00	Washer		
Greenhouse Heat Curtain (\$ 0.20 per Sq. Ft.)	\$200.00	1,000 SF		
Greenhouse Infrared Film (\$ 0.05 per Sq. Ft.)	\$50.00	1,000 SF		
Truck Loading Dock Seals (New Installation)	\$200.00	Door		
Truck Loading Dock Leveler Ramp Air Pit Seals (New Installation)	\$100.00	Door		
Ozone Laundry	\$40.00	lb Wash Capacity		
High Efficiency Process Boiler (Water)	\$2.00	MBH		
High Efficiency Process Boiler (Steam)	\$2.00	MBH		
Dry Cleaning Boiler Descale (Kettle-Type Boiler)	\$150.00	Boiler		
Dry Cleaning Boiler Descale (Tube-Type Boiler)	\$150.00	Boiler		

Total Miscellaneous Incentives:	



GAS SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

General Clause for Heating Measures

Prescriptive incentives are available only for retrofit projects using natural gas as the primary fuel source. If a dual-fuel system is used, or if natural gas is the back-up or redundant fuel, the custom incentive application must be used.

Steam Trap Repair/Replacement

Incentives are available for the repair or replacement of steam traps that have failed open and that are leaking steam. Incentive is not available for traps that have failed closed or that are plugged. Replacement with an orifice trap is not eligible. Incentive is available once per 24 month period, per trap. Steam trap repair work must be recorded and the service report must be attached to the incentive application. Incentive is per repaired or replaced trap. The report must contain:

- Name of Survey/Repair Technician
- · Survey/Repair Date
- · System nominal steam pressure
- · Annual hours of operation
- · Number of steam traps serviced
- · Per steam trap:
 - o ID tag number, location and type of trap
 - o If repair or replaced:
 - Orifice Size
 - Pre-and Post Conditions (e.g., Functioning/Not Functioning, Leaking/Not Leaking)

High Efficiency Space Heating Boiler

Incentives are available for replacement boilers used for space heating. Boilers purchased for backup or redundancy are not eligible. Boilers must be modulating with a minimum turndown ratio of 5:1 and be of the sealed combustion type. The ratings are as defined per ANSI Standard Z21.13. Qualifying efficiencies are shown in Table 1 below. Incentive is per MBH.

Table 1: Minimum efficiency requirements for High Efficiency Space Heating Boilers

Input Rating (MBH)	Minimum
input Rating (MBH)	Efficiency
< 300	88% AFUE
≥ 300	88% Thermal
≥ 300	Efficiency

Boiler Modulating Burner Control

Incentives are available for retrofitting existing non-modulating boilers with modulating burner controls added to boilers. The control must have a minimum turn-down ratio of 5:1. Boiler must operate a minimum of 4,000 hours per year. Incentive is only available for equipment used in space heating conditions. Incentive is per boiler.

Boiler Water Reset Control

Incentives are available for boiler water reset controls added to existing boilers operating with a constant supply temperature. Incentives are for space heating boilers only. A replacement boiler with boiler reset controls is not eligible. The system must be set so that the minimum temperature is not more than 10°F above manufacturer's recommended minimum return temperature. For controls on multiple boilers to be eligible, control strategy must stage the lag boiler(s) only after the lead boiler fails to maintain the desired boiler water temperature. Incentive is per boiler.

High Efficiency Gas Furnace

Incentives are available for replacement furnaces and unit heaters that have an AFUE of 92%- 95% or greater and have a sealed combustion unit. Air handlers are not eligible. Equipment purchased for backup or redundancy is not eligible. Incentive is only available for equipment used in space heating conditions. Incentive is per furnace and is based upon unit efficiency.

Pipe Wrap - Steam Boiler

Incentives are available for insulation applied to existing bare steam boiler piping. Insulation must have an applied thickness of 1 inch and a minimum thermal resistance of R-4. A minimum of 10 linear feet of pipe must be insulated. The bare pipe size must be ½ inch or larger. Incentive is per linear foot of insulation.



GAS SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Pipe Wrap - Hot Water Boiler

Incentives are available for insulation applied to existing bare hot water boiler piping. Insulation must have an applied thickness of 1 inch and a minimum thermal resistance of R-4. A minimum of 10 linear feet of pipe must be insulated. The bare pipe size must be $\frac{1}{2}$ inch or larger. Incentive is per linear foot of insulation.

Infrared Heaters

Incentives are available for infrared heaters with electronic ignition and used in space heating applications replacing unit heaters. Both high-intensity and low-intensity heaters are eligible. Low-intensity heaters must use non-conditioned, outside air for combustion. Incentive is per MBH.

Roof Insulation

Incentives are available for adding roof insulation to existing buildings. The building must require space heating. All materials must be new, must meet or exceed all applicable local, state and federal standards and must be installed according to manufacturer requirements. Attic and roof/ceiling insulation is eligible for incentive only when installed between conditioned and unconditioned spaces. The pre-retrofit insulation level must be R-12 or less and the final insulation level must be at least R-18 or the minimum required by the local jurisdiction. Insulation above dropped commercial ceilings is not eligible. Incentive is per 1,000 Sq. Ft. of roof area. Decimal values are allowed for areas that are not multiples of 1,000 square feet.

Programmable Thermostat Setback/Setup (Gas Heat)

Incentives are available for new programmable thermostats that replace any non-programmable thermostat to automatically adjust the temperature at pre-selected times. Thermostats must be capable of maintaining two separate programs for weekdays and weekends and up to four temperature settings for each program. Incentive is per thermostat.

Chilled Water Reset - Air and Water Cooled Chillers

Incentives are available for retrofitting existing chilled water systems with chilled water reset controls that allow the chilled water temperature to increase by at least 5°F during periods of low-flow (low load). The building must have hydronic reheat. Upgrades must include hardware for new controls, and the system must include an economizer. VAV systems are not eligible. Incentive is per refrigeration ton of the chiller affected by the control upgrade.

Variable Frequency Drives - Secondary Chilled Water Pumps

Incentives are available for installing variable frequency drives (VFD) on existing secondary chilled water pumps of comfort cooling chilled water systems having a primary-secondary pumping arrangement. Redundant or back-up pumps are not eligible. Integrated VFDs on new equipment are not eligible for this incentive. The installation of a VFD must accompany the permanent removal or disabling of any throttling devices such as inlet vanes and throttling valves. Incentive is per horsepower (hp) of the secondary chilled water pump.

Energy Management for Chilled Water Systems

Incentives are available for energy management system (EMS) upgrades that include combining chilled water reset controls with hydronic hot water, chilled water and condenser water pump on/off controls to turn the pumps off when heating and/or cooling are not needed. Pre-existing system must operate 8760 hours per year with a constant chilled water set point and a constant pump flow rate. Upgrades must include hardware for new controls. Incentive is per 1,000 square feet of the conditioned floor area affected by the EMS upgrade. Decimal values are allowed for areas that are not multiples of 1,000 square feet.

Setback - Setup Controls (Gas Heat)

Incentives are available for customers who install setback controls utilizing an EMS system. Previous controls must have no setback capability. Setback - Setup must be at least 8 degrees and for at least 56 hours a week. Replacement of programmable thermostats with the EMS is not eligible. Setback using programmable thermostats are not eligible for this incentive. Projects implementing demand controlled ventilation may be eligible for other incentives in addition to the Setback incentive. Cannot be combined with Energy Management System Incentive.



GAS SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Demand Controlled Ventilation

Incentives are available to retrofit existing buildings with ventilation controls that use carbon dioxide levels to measure occupancy and modify the percentage of outside air based on occupancy levels. Only buildings with space heating and cooling requirements are eligible. Conditioned spaces must be kept between 65°F and 75°F during operating hours. Systems must have current fresh air requirements equal or greater to 10% of supply air requirements. Carbon dioxide sensors must be installed in conjunction with fully functioning motor operated outside air dampers. Dual temperature air-side economizers with zone-level CO2 sensors for rooftop units are eligible. Return system CO2 sensors also qualify. Controlled spaces must meet the minimum requirements of the ASHRAE 62.1 Standard required in Michigan, as well as all applicable local building codes and manufacturer's recommendations. Incentive is per 1,000 sq ft of controlled floor area. Decimal values are allowed for areas that are not multiples of 1,000 sq ft. Must submit floor plan with Final Application.

Guestroom Energy Management Control (Gas Heat)

Incentives are available for new sensors that control HVAC units for individual hotel rooms. Sensors must be controlled by automatic occupancy detectors. Sensors controlled by a front desk system are not eligible. Replacement or upgrades of existing occupancy-based controls are not eligible as a prescriptive incentive. The incentive is per guest room controlled. For multi-room suites, the incentive is available per room controlled, when a sensor is installed in each room.

Domestic Hot Water System ≥ 84% Efficient

Incentives are available for domestic hot water systems containing a new boiler and a separate storage tank. The boiler must have a thermal efficiency (AFUE) of 84% or better. Boiler must be 75 MBH or larger to qualify. Boilers used for space heating do not qualify for this incentive. Incentive is based upon unit efficiency.

Gas Storage Water Heater

Incentives are available for water heaters that have an Energy Factor ≥ 0.62 and that replace existing natural gas storage water heaters with a capacity of $\le 75,000$ Btu/h and storage tank holding < 75 gallons. Water heaters with a capacity of > 75,000 Btu/h and storage tank holding > 75 gallons must have a Thermal Efficiency of $\ge .88$. Incentive is per heater.

Gas Tankless Water Heater

Incentives are available for water heaters replacing existing natural gas water heaters. Replacement unit must be power vented with an Energy Factor of ≥ 0.82. Incentive is per heater.

Domestic Hot Water Pipe Wrap

Incentives are available for insulation applied to existing bare pipe for domestic hot water systems. Insulation must have an applied thickness of 1 inch for a minimum thermal resistance of R-4. Pipe must be between 1/2" and 2-1/2" in diameter. Piping associated with new boiler systems is not eligible. Repair or replacement of existing insulation does not qualify. Hot water must be a minimum of 120 F. Incentive is limited to a maximum of 500 linear feet per boiler.

High Efficiency Pool Heater

Incentives are available for replacement pool heaters. Replacement heater must have a thermal efficiency ≥ 84%, must be rated between 500,000 Btu and 2,000,000 Btu, must have an on/off switch, and must have no standing pilot light. The pool heater may not be used as a back-up for solar water-heating. Incentive is per rated MBH.

Pool Covers

Incentives are available for covers for pools between 400 and 4,000 square feet in size. Incentive is per square foot of pool surface area.

Furnace Tube Inserts

Incentives are available for spiral ceramic inserts installed in the exhaust leg of heat treating furnace burner tubes. The inserts must be new and replace existing U, W, or trident shaped burner tubes. Incentive is per tube insert.

High Efficiency Clothes Washer (Gas Water Heater)

Incentives are available for high efficiency clothes washers that use a gas water heater. Qualified clothes washers must meet a minimum efficiency of CEE© Tier 2 with a Modified Energy Factor (MEF) \geq 2.00 and a Water Factor (WF) \leq 6.00. Incentive is per washer.



GAS SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Greenhouse Heat Curtain

Heat curtains are required to be installed for heat retention in an existing gas-heated commercial growing greenhouse for agricultural use. Must be designed for and installed as a heat curtain. Curtain should meet or exceed a natural gas savings rating of 40% or better and have an effective life of at least 5 years. The incentive applies to either a new curtain where a curtain was not previously in place or to replace an existing curtain that is no longer functional and is at least 5 years old. Incentive is per 1,000 Sq. Ft. of roof area. Decimal values are allowed for areas that are not multiples of 1,000 square feet.

Greenhouse Infrared Film

Flim must be Infrared, anti-condensate, polyethylene plastic with a minimum thickness of 6 mils. Incentive is for use in an existing gas heated greenhouse. The IR poly must be put in place of regular poly or as a replacement for IR poly that has been in place at least 5 years. Coating applied onsite to existing film does not qualify. Incentive is per 1,000 Sq. Ft. of roof area. Decimal values are allowed for areas that are not multiples of 1,000 square feet.

Truck Loading Dock Seals

Incentives are available for loading dock seals added to existing dock doors without seals. New seals must effectively close all gaps between the building and the trailer, including the hinge gap with outwardly swinging doors. Interior space must be heated with natural gas. Incentive is per door.

Truck Loading Dock Leveler Ramp Air Pit Seals

Incentives are available for leveler ramp air pit seals added to existing loading dock systems without seals. New seals must effectively close all gaps between the building and the ramp when the ramp is either in the raised or lowered position. Seals may be attached to either the building or the ramp. Stand-alone brush or whisker type edge seals are not eligible, but may be combined with qualifying air seals. Incentive is per door.

Ozone Laundry System

Incentives are available for ozone injection systems added to existing or new commercial washers. System must be installed on-site. Incentive is per lb wash capacity.

High Efficiency Process Boiler (Water or Steam)

Incentives are available for replacement boilers used in manufacturing processes. Boiler must have an operating thermal efficiency of ≥ 82% as installed. A flue gas analysis under full load conditions must be performed and the report must be submitted with the Final Application. Incentive is per MBH.

Dry-Cleaning Boiler De-Scaling

Incentives are available once every 5 years for de-scaling and cleaning boilers used in commercial dry-cleaning operations. Boiler must be kettle or tube type and have a capacity of 320 – 840 MBH. Incentive is per boiler.

Tune-up Checklist (Submit one sheet per Tune-up)

Site Name



Type (hot water boiler, High/low pressure steam boiler, Furnace, RTU)

BOILER/FURNACE TUNE-UP INCENTIVES WORKSHEET

Manufacturer		Date of Tune-up					
		Annual Hours of Operation					
Model Number							
Serial Number		Company Performing Tune-up					
Hait land Consider (MDII)							
Unit Input Capacity (MBH)		recnniciai	n Performing Tune-	ир			
Measure pre/post combustion efficiency using electronic gas analyzer Adjust combustion air flow and air intake as needed, reducexcessive stack temperatures Adjust burner and gas input, manual or motorized draft of Clean burners, combustion chamber and heat exchanger surfaces Please provide the following data: Combustion Efficiency % Stack Temperature °F Oxygen Level % Carbon Dioxide % Carbon Monoxide PPM Include a copy of the combustion analyze	ontrol Be	Check Check Check Check Check Check	s safety controls s adequacy of comb s for proper venting s Draft Control Dam and inspect burner	pers	installation		
Equipment Type	Incentiv	/e	Unit	# of Units	Incentives Calculated		
Boiler Tune-Up	1						
Boiler Tune-Up (110 - 500 MBH)	\$150		Unit				
Boiler Tune-Up (501 - 1200 MBH)	\$250		Unit				
Boiler Tune-Up (>1200 MBH)	\$350		Unit				
Process Boiler Tune-Up					•		
Process Boiler Tune-Up (≤ 3,000 MBH)	\$350		Unit				
Process Boiler Tune-Up (> 3,000 MBH)	\$1,000		Unit				
Furnace/RTU Tune-Up	•				•		
Furnace/RTU Tune-Up (40 - 300 MBH)	\$50		Unit				
Furnace/RTU Tune-Up (301 - 500 MBH)	\$100		Unit				
Furnace/RTU Tune-Up (>500 MBH)	\$150		Unit				
	-						
Total Tune-up Incentives:							



BOILER/FURNACE TUNE-UP SPECIFICATIONS

Boiler Tune-up (Space Heating Boilers Only)

Incentives are available for tune-ups to natural gas fired, space heating boilers. Burners must be adjusted to improve combustion efficiency as needed. The incentive is available once every two years. Boiler size must be 110 MBH or greater. The service provider must perform before and after combustion analyses and attach the tune-up report to the Final Application. Incentive is per boiler. The tune-up checklist must be filled out per boiler. Other forms that include all the required information are acceptable.

Boiler Tune-up (Process Boilers Only)

Incentives are available for tune-ups to natural gas fired, process boilers. Boilers used primarily for domestic hot water, space heating, or pool/spa use are not eligible. Burners must be adjusted to improve combustion efficiency as needed. The incentive is available once every two years. Boiler size must be 110 MBH or greater. The service provider must perform before and after combustion analyses and attach the tune-up report to the Final Application. Incentive is per boiler. The tune-up checklist must be filled out per boiler. Other forms that include all the required information are acceptable.

Forced Air Gas Furnace or Rooftop Unit (RTU) Tune-up (Space Heating Units Only)

Incentives are available for a combustion burner tune-up for indirect fired units with an input of 40 MBH or greater. This includes furnaces, rooftop units, unit heaters and air handling units that are indirect fired. Contractor must complete a tune-up checklist for each unit serviced. A single unit with multiple burners or modules is considered one unit. A rooftop unit is considered one unit. The incentive is available once every two years. Other forms that include all the required information are acceptable.



MISCELLANEOUS (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Occupancy Sensors and Controls				
Beverage Vending Machine Controllers	\$50.00	Machine		
Intelligent Surge Protector	\$8.00	Protector		
Energy Efficient Ice Machines				
< 500 lbs	\$150.00	Machine		
500 to 1000 lbs	\$250.00	Machine		
> 1000 lbs	\$500.00	Machine		
Clothes Washers				
High Efficiency Clothes Washer (Electric Water Heat, Electric Dryer)	\$50.00	Washer		
High Efficiency Clothes Washer (Electric Water Heat, Gas Dryer)	\$50.00	Washer		
Total Miscellaneous (Electric) Incentives:				



MISCELLANEOUS (ELECTRIC) SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Beverage Vending Machine Controllers

Incentives are available for retrofitting existing vending machines with beverage vending machine controllers. The controller must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Control logic should power up the machine at a minimum of every 2 hours to maintain product temperature. Incentive is per vending machine.

Intelligent Surge Protector

Incentives are available for surge protectors with built-in plug-load detection and control capabilities. The intelligent surge protector (power strip) must include at least one uncontrolled socket to which a primary device can be connected. Turning the primary device (usually a computer) on or off will subsequently turn the associated controlled devices(ex. printers, monitors, etc.) in the power strip on or off. The intelligent power strip may also contain multiple sockets for uncontrolled devices that require a constant supply of power. Devices connected to these sockets will not be affected by the status of the control device. Incentive is per protector.

Energy Efficient Ice Machines

Incentives are available for ice machines that generate ice flaked, crushed, fragmented or in cubes of 60 grams (2 oz.) or lighter. Only air-cooled machines (self-contained, ice-making heads, or remote condensing) are eligible. The machine must have a minimum capacity of 101 lbs of ice per 24-hour period. The minimum efficiency required is per ENERGY STAR or CEE© Tier 2 (www.cee1.org) and rated in accordance with AHRI Standard 810. Incentive is per ice machine.

High Efficiency Clothes Washer (Electric Water Heater)

Incentives are available for high efficiency clothes washers that use an electric water heater. Qualified clothes washers must meet a minimum efficiency of CEE© Tier 2 with a Modified Energy Factor (MEF) \geq 2.00 and a Water Factor (WF) \leq 6.00. Incentive is per washer.



PROCESS (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type	Incentive	Incentive Unit	# of Pumps	Total HP	Incentive Calculated
High Efficiency Pumps	<u>'</u>			•	
1.5 HP	\$20.00	HP			
2 HP	\$20.00	HP			
3 HP	\$20.00	HP			
5 HP	\$20.00	HP			
7.5 HP	\$20.00	HP			
10 HP	\$20.00	HP			
15 HP	\$20.00	HP			
20 HP	\$20.00	HP			
Variable Frequency Drive on Pumps	•				
1.5 HP	\$60.00	HP			
2 HP	\$60.00	HP			
3 HP	\$60.00	HP			
5 HP	\$60.00	HP			
7.5 HP	\$60.00	HP			
10 HP	\$60.00	HP			
15 HP	\$60.00	HP			
20 HP	\$60.00	HP			
25 HP	\$60.00	HP			
30 HP	\$60.00	HP			
40 HP	\$60.00	HP			
50 HP	\$60.00	HP			
Miscellaneous Process	Incentive	ı	Jnit	# of Units	Incentive Calculated
Compressed Air Engineered Nozzle	\$100.00	N	ozzle		
Barrel Wraps for Injection Molders & Extruders	\$1.00	Macl	hine Ton		
Insulated Pellet Dryer Ducts - 3" diameter	\$10.00	Line	ear foot		
Insulated Pellet Dryer Ducts - 4" diameter	\$15.00	Line	ear foot		
Insulated Pellet Dryer Ducts - 5" diameter	\$20.00	Line	ear foot		
Insulated Pellet Dryer Ducts - 6" diameter	\$25.00	Linear foot			
Insulated Pellet Dryer Ducts - 8" diameter	\$30.00	Line	ear foot		

Total Process (Electric) Incentives:



PROCESS (ELECTRIC) SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

High Efficiency Pumps

Incentives are available for high efficiency process pumps. Pump performance curve must indicate that pump meets the efficiencies listed below. Pumps must operate at least 2,000 hours per year. Incentive is per pump horsepower.

Table 1: Qualifying Pump Efficiency

Horsepower	Pump Efficiency
1.5 – 2	≥ 63%
3	≥ 65%
5	≥ 68%
7.5	≥ 73%
10	≥ 75%
15 – 20	≥ 77%

Variable Frequency Drives for Process Pumping

Incentives are available for retrofitting existing process (non-HVAC) pumps with VFDs. Pumps must operate at least 2,000 hours per year. VFDs for redundant or back-up pumps are not eligible. VFDs replacing existing VFDs are not eligible. The installation of a VFD must accompany the permanent removal or disabling of any throttling devices such as throttling valves. Incentive is per controlled HP of the process pump.

Engineered Nozzle

Incentives are available for engineered nozzles that replace simple open pipe/tube assemblies connected to a compressed air system. Nozzles must be in use 2,000 hours or greater per year. The engineered nozzles must be between 1/8" and 1/2" in diameter. Air jets and nozzles must have a standard cubic feet per minute (SCFM) rating at 80 psig of less than or equal to the values in Table 2 below. Incentive is per nozzle.

Table 2: Qualifying SCFM ratings for Engineered Nozzles

Size (inch)	SCFM
1/8	10
1/4	17
3/8	18
1/2	18

Barrel Wraps for Injection Molders and Extruders

Incentives are available for installing insulating blankets on the barrels of extruding or injection molding machines. Blankets must be installed in accordance with machine manufacturer recommendations on previously un-insulated barrels. Incentive is per machine ton.

Insulation for Pellet Dryer Tanks and Ducts

Incentives are available for insulation placed on tanks and flexible ducts of pellet dryers. Insulation must be installed on previously un-insulated duct with a diameter of 3 to 8 inches, or on centralized, recirculating hoppers in accordance with manufacturer's recommendations. Insulation may not be placed on transportable drums. Incentives are only applicable to insulation products capable of maintaining duct steady-state temperatures of $\leq 200^{\circ}$ F. Incentive is per linear foot of insulation.



FOOD SERVICE (ELECTRIC) AND REFRIGERATION **INCENTIVES WORKSHEET**

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Replacement Refrigerators and Freezers				
ENERGY STAR® Commercial Solid Door Refrigerators (< 15 cu ft)	\$75.00	Refrigerator		
ENERGY STAR® Commercial Solid Door Refrigerators (15 - 30 cu ft)	\$100.00	Refrigerator		
ENERGY STAR® Commercial Solid Door Refrigerators (31 - 50 cu ft)	\$150.00	Refrigerator		
ENERGY STAR® Commercial Solid Door Refrigerators (> 50 cu ft)	\$200.00	Refrigerator		
ENERGY STAR® Commercial Solid Door Freezers (< 15 cu ft)	\$75.00	Freezer		
ENERGY STAR® Commercial Solid Door Freezers (15 - 30 cu ft)	\$100.00	Freezer		
ENERGY STAR® Commercial Solid Door Freezers (31 - 50 cu ft)	\$150.00	Freezer		
ENERGY STAR® Commercial Solid Door Freezers (> 50 cu ft)	\$200.00	Freezer		
Replacement Steam Cookers				
ENERGY STAR® Steam Cookers (3 Pan, Electric)	\$450.00	Cooker		
ENERGY STAR® Steam Cookers (4 Pan, Electric)	\$600.00	Cooker		
ENERGY STAR® Steam Cookers (5 Pan, Electric)	\$750.00	Cooker		
ENERGY STAR® Steam Cookers (6 Pan, Electric)	\$900.00	Cooker		
Replacement Hot Holding Cabinets				
ENERGY STAR® Hot Holding Cabinets (Half Size)	\$300.00	Cabinet		
ENERGY STAR® Hot Holding Cabinets (Three Quarter Size)	\$400.00	Cabinet		
ENERGY STAR® Hot Holding Cabinets (Full Size)	\$600.00	Cabinet		
Other				
Anti-Sweat Heater Controls	\$80.00	Door		
Efficient Refrigeration Condenser	\$100.00	Ton		
Floating Head Pressure Controls	\$8.00	Ton		
ECM Motor for Reach-in Refrigerated Display Case	\$60.00	Motor		
ECM Motor for Walk-in Cooler and Freezer	\$80.00	Motor		
Evaporator Fan Motor Control on ECM Motors for Walk-in Coolers and Freezers	\$30.00	Controller		
Evaporator Fan Motor Control on PSC Motors for Walk-in Coolers and Freezers	\$30.00	Controller		
LED Refrigerated Door Case Lighting	\$30.00	Door		
Night Covers (Vertical)*	\$1.25	Linear Ft. x Hrs/Day	Ft. Hrs.	
* To calculate night cover incentive, multiply incentive x linear ft x hrs that night of	cover is used pe	er day		

Total Food Service (Electric) and Refrigeration Incentives:



FOOD SERVICE (ELECTRIC) & REFRIGERATION SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

ENERGY STAR® Commercial Solid Door Refrigerator

Incentives are available for replacement units that are ENERGY STAR® listed. Cases with remote refrigeration systems are not eligible. Incentive is per refrigerator.

ENERGY STAR® Commercial Solid Door Freezer

Incentives are available for replacement units that are ENERGY STAR® listed. Cases with remote refrigeration systems are not eligible. Incentive is per freezer.

ENERGY STAR® Steam Cookers (Electric)

Incentives are available for replacement electric steamers that are ENERGY STAR® listed with a Cooking Energy Efficiency of 50% for all size units. Used or rebuilt equipment is not eligible. Incentive is per cooker.

ENERGY STAR® Hot Holding Cabinets

Incentives are available for replacement units that are ENERGY STAR® listed and consume <40 W per cubic foot. Cookand-hold equipment is not eligible. Used or rebuilt equipment is not eligible. Incentive is per cabinet.

Anti-Sweat Heater Controls

Incentives are available for anti-sweat heater controls. Eligible control devices that sense the relative humidity in the air outside of the display case and reduces or turns off the glass door (if applicable) and frame anti-sweat heaters at lowhumidity conditions. Technologies that can turn off anti-sweat heaters based on sensing condensation (on the inner glass pane) are also eligible. Incentive is per total number of doors controlled. Incentive is per door.

Efficient Refrigeration Condenser

Incentives are available for the design and installation of oversized condensers for multiplex refrigeration systems. A design reducing the approach (difference in existing refrigerant and ambient dry bulb temperature) lowers the head pressure and conserves compressor horsepower. The new condenser must result in 85 Btu/hr of heat rejection per watt of fan power for air cooled condensers. For evaporative cooled equipment, a minimum of 195 Btu/hr/watt is required. Incentive is per ton of refrigeration.

Table 1: Oversized Condenser Approach Requirements

Condenser Category	Typical Design Approach	Oversized Condenser Approach (at or below)
Air cooled low temperature	10°F	8°F
Air cooled medium temperature	15°F	13°F
Evaporative cooled	20°F	18°F

Floating Head Pressure Controls

Incentives are available for installing automatic controls to lower condensing pressure at lower ambient temperatures in multiplex refrigeration systems. Controls installed must vary head pressure to adjust condensing temperatures in relation to outdoor air temperature. The controls must replace existing constant pressure or manually controlled systems to achieve lowered head pressure in order to maintain a minimum saturated condensing temperature of 70°F, or a 20°F variance below design head pressure during mild weather conditions. Incentive is per ton of refrigeration.

ECM Motor for Reach-in Refrigerated Display Case

The ECM motor replaces existing standard efficiency Shaded Pole (S-P) or Permanent Split Capacitor (PSC) evaporator fan motor in refrigerated display cases. Incentive is per motor.

ECM Motor for Walk-in Freezer and Cooler

Incentives are available for ECM (electronically commutated motor) replacing shaded pole motors or PSC (permanent split capacitor) motor on existing walk-in freezer and walk-in cooler evaporator fans. Qualifying motors should be 1/3 hp or less. Incentive is per motor.

Evaporator Fan Motor Control for Walk-in Cooler or Freezer

Controller must lower fan air-flow and reduce motor power consumption by at least 75% during compressor off cycles. Each controller must control at least two (2) evaporator fan motors with motor sizes of 1/20 hp or larger. Motor types must be ECM or PSC motors. Incentive is per controller.

LED Refrigerated Door Case Lighting

Incentives are available to replace T12 or T8 fluorescent case lighting. The existing fluorescent fixture and ballast must be completely removed and replaced with Energy Star Qualified LED or equivalent lights to qualify. LED fixtures must have a minimum efficacy of 35 lumens per watt. Incentive is per door.

Vertical Night Covers

Incentives are available for vertical night covers installed on open refrigerated display cases. Horizontal covers are not eligible. The purpose of night covers is to reduce the amount of heat loss from the open refrigerated display cases during facility non-operating hours. Note: Applicant should ensure the case manufacturer has no objections to the use of a night cover. Incentive is per linear foot of cover times the hours that the store is closed per day.



FOOD SERVICE (GAS) INCENTIVES WORKSHEET

Incentive	Unit	# of Units	Incentive Calculated
\$750.00	Cooker		
\$900.00	Cooker		
\$300.00	Oven		
\$900.00	Oven		
\$400.00	Oven		
\$800.00	Oven		
\$225.00	Fryer		
\$300.00	Fryer		
\$200.00	Griddle		
\$30.00	Sprayer		
\$0.75	Linear Ft. x Hrs/Day	Ft. Hrs.	
night cover is used p	er day	•	
	\$750.00 \$900.00 \$300.00 \$900.00 \$400.00 \$800.00 \$225.00 \$300.00 \$200.00	\$750.00 Cooker \$900.00 Cooker \$300.00 Oven \$900.00 Oven \$400.00 Oven \$800.00 Oven \$225.00 Fryer \$300.00 Fryer \$300.00 Griddle	\$750.00 Cooker \$900.00 Cooker \$300.00 Oven \$900.00 Oven \$400.00 Oven \$800.00 Oven \$800.00 Fryer \$300.00 Fryer \$300.00 Fryer \$300.00 Fryer \$100.00 Fryer

Total Food Service & Miscellaneous (Gas) Incentives:



FOOD SERVICE (GAS) SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

ENERGY STAR® Steam Cookers (Gas)

Incentives are available for replacement gas steamers that are ENERGY STAR® listed. Five and six pan units must have working efficiency of 38%. Used or rebuilt equipment is not eligible. Incentive is per cooker.

ENERGY STAR® Convection Ovens

Incentives are available for replacement gas units that are ENERGY STAR® listed. Ovens must have a heavy load Cooking Energy Efficiency of at least 44%. Used or rebuilt equipment is not eligible. Incentive is per oven.

Combination Ovens

Incentives are available for replacement gas units that have a Cooking Energy Efficiency of at least 40%. Used or rebuilt equipment is not eligible. Incentive is per oven.

Rack Oven

Incentives are available for replacement gas units that have a heavy load Cooking Energy Efficiency of at least 50% for both single and double rack ovens. Used or rebuilt equipment is not eligible. Incentive is per oven.

ENERGY STAR® Fryers

Incentives are available for replacement gas units that are ENERGY STAR® with a heavy load Cooking Energy Efficiency of at least 50%. Used or rebuilt equipment is not eligible. Incentive is per fryer.

Large Vat Fryers

Incentives are available for replacement gas units that have a heavy load Cooking Energy Efficiency of at least 50%. Used or rebuilt equipment is not eligible. Multi-vat units are considered one fryer. Incentive is per fryer.

ENERGY STAR® Griddles

Incentives are available for replacement gas units that are ENERGY STAR® listed. Griddles must have a Cooking Energy Efficiency of at least 38%. Used or rebuilt equipment is not eligible. Incentive is per griddle.

Pre-Rinse Sprayers (Gas Water Heater)

Incentives are available for low-flow, high efficiency pre-rinse sprayers using less than or equal to 1.6 gallons per minute (gpm). Sprayer must replace an existing sprayer using 2.2 gpm or more. Water heating must be with a natural gas appliance. Incentive is per sprayer.

Vertical Night Covers

Incentives are available for night covers installed on open refrigerated display cases. The purpose of night covers is to reduce the amount of heat loss from the open refrigerated display cases during facility non-operating hours. Note: Applicant should ensure the case manufacturer has no objections to the use of a night cover. Incentive is per linear foot of cover times the hours that the store is closed per day. Incentive does not include horizontal covers.



CUSTOM INCENTIVES WORKSHEET (Must be submitted BEFORE project begins)

See Instructions on Following Page ("Custom Specifications"). Complete every blank box for each item you submit.

	implete every blank box for each item you sub	mit.
Enter your Energy Cost. Do not leave bla	ank. Electricity	Gas
Incentive le		Gas \$4.00/MCF
lhana 4		
Item 1	2	
Before Retrofit	m Description After Retrofit	Annual kWh Savings
Bolore Pretroit	Autor Program	Annual MCF Savings
		Measure Cost
		Payback Period*
		Incentive Subtotal
Hours Used Per Year?	Hours Used Per Year?	
Item 2		
	m Description	Annual kWh Savings
Before Retrofit	After Retrofit	Annual MCF Savings
		7 umaa mor Savings
		Measure Cost
		Payback Period*
		i ayback i enou
		Incentive Subtotal
Hours Used Per Year?	Hours Used Per Year?	
Hours Oseu Fer Tear?	Hours Oseu Fer Tear?	I
Item 3		
Syste	m Description	Annual kWh Savings
Before Retrofit	After Retrofit	4 11050
		Annual MCF Savings
		· ·
		Measure Cost
		Measure Cost
		Measure Cost
·		Measure Cost Payback Period*
Hours Used Per Year?	Hours Used Per Year?	Measure Cost Payback Period*
	Hours Used Per Year?	Measure Cost Payback Period*
Item 4		Measure Cost Payback Period* Incentive Subtotal
Item 4	Hours Used Per Year? m Description After Retrofit	Measure Cost Payback Period*
Item 4 Syste	em Description	Measure Cost Payback Period* Incentive Subtotal
Item 4 Syste	em Description	Measure Cost Payback Period* Incentive Subtotal Annual kWh Savings Annual MCF Savings
Item 4 Syste	em Description	Measure Cost Payback Period* Incentive Subtotal Annual kWh Savings
Item 4 Syste	em Description	Measure Cost Payback Period* Incentive Subtotal Annual kWh Savings Annual MCF Savings
Item 4 Syste	em Description	Annual kWh Savings Annual MCF Savings Measure Cost Payback Period*
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Before Retrofit Hours Used Per Year?	em Description After Retrofit	Annual kWh Savings Annual MCF Savings Measure Cost Payback Period*
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Before Retrofit Hours Used Per Year?	em Description After Retrofit	Annual kWh Savings Annual MCF Savings Measure Cost Payback Period*

Payback Period = -

* Payback Period must be greater than or equal to one year or less than or equal to eight years to receive rebate.

Measure Cost

(Annual kWh saved x Electricity Rate) + (Annual MCF saved x Gas Rate)

^{**} Total Custom Incentives may not exceed 50% of the total custom project cost.



CUSTOM WORKSHEET INSTRUCTIONS

(Excel Version Worksheet Highly Recommended)

- 1) At 'Electricity', enter your average cost of electricity. This is equal to the sum of your electric utility bills for 12 consecutive months divided by the sum of the energy used (kWh) during the same 12 months.
- 2) At 'Gas', enter your average annual cost of gas. This is equal to the sum of your gas utility bills for 12 consecutive months divided by the sum of the gas used (Mcf) during the same 12 months. Please note, if your bill is calculated in Ccf, it will have to be converted to Mcf.
- 3) Under 'Before Retrofit' and 'After Retrofit', enter the quantity, name, manufacturer, model #, size (ex; hp or kW or BTU/hr) for the existing and new equipment as well as any other information that can help calculate the energy used by the equipment.
- 4) Enter the hours/year that the equipment is in operation, for both the existing and new equipment.
- 5) If electrical savings, enter the 'Annual kWh Savings'. For simple projects, this can be determined by first taking the watts used by the existing equipment, multiplying by the hours/year it is used, then dividing by 1000 to get kilowatt-hours used. Do the same for the new equipment. The difference between these numbers is the 'Annual kWh Savings'. For complex projects, provide a separate analysis showing how you determined the energy savings or contact us for assistance.
- 6) If natural gas savings, enter the 'Annual MCF Savings', calculated in the same way as the electrical savings.
- 7) Enter the 'Measure Cost' (MC) for the Item. The MC is the cost of implementing a measure less any costs incurred to achieve non-energy related project benefits. Only costs associated with the rebated energy savings measure should be included in the MC. The MC is the basis for determining the simple payback for custom measures and is defined as either:
 - A. For equipment replacement measures, the cost difference between equipment meeting program efficiency criteria and equipment meeting the minimum efficiency allowable by code or industry standard; or
 - B. For retrofit and new technology measures, the cost of new equipment, components or materials added to existing equipment for the purpose of improving its energy efficiency
- 8) If using the Excel version of this Application, the "Incentive Subtotal" will be calculated for you. If using the paper version, determine the incentive for each Item by multiplying the "Annual kWh Savings" by \$0.08/kWh and the "Annual MCF Savings" by \$4.00/MCF, adding the two results, and entering this at "Incentive Subtotal" for each item.
- 9) If using the Excel version of this Application, the 'Payback Period" will be calculated for you. If using the paper version, determine the payback for each Item: For each item, divide the measure cost (MC) by the annual cost savings. Cost savings is equal to the annual energy savings (kWh/yr or Mcf/yr) multiplied by the average energy cost (\$/kWh or \$/Mcf). If an item has both electric and gas savings, sum the cost savings for both utilities before calculating the simple payback period. Note: If the simple payback period is less than one year or greater than 8 years, the item is not eligible for an incentive.
- 10) If using the Excel version of this Application, the 'Total Custom Measure Cost" and 'Total Custom Incentives' will be calculated for you. If using the paper version, sum the Measure Costs for all Items and enter that value in 'Total Custom Measures Cost'. Then total all the 'Incentive Subtotals' and enter that in 'Total Custom Incentives'. *Note: 'Total Custom Incentives' cannot be more than 50% of the 'Total Custom Measures Cost'*.
- 11) If you have any questions on the Custom Incentives Worksheet process, please contact us at saveenergy@dteenergy.com or at 866-796-0512.



CUSTOM SPECIFICATIONS

All final applications MUST include manufacturers' equipment specification sheets

Custom projects must involve a facility improvement that results in a permanent reduction in electrical (kWh) and/or natural gas (MCF) energy usage due to an increase in system efficiency. Projects that result in reduced energy consumption without an improvement in system efficiency are not eligible for a custom incentive.

Custom and prescriptive measures may be included on one application. Mixed measures, those with both prescriptive and custom aspects, must be separated into prescriptive and custom components. Prescriptive measures, or portions thereof, are only eligible for prescriptive incentives and custom measures, or portions thereof, are only eligible for custom incentives. For custom measures or portions thereof, incentives are limited to 50% of the sum of all custom measure costs (MC). The MC is the cost of implementing a measure less any costs incurred to achieve non-energy related project benefits. Only costs associated with the rebated energy savings measure should be included in the MC. The MC is the basis for determining the simple payback period for custom measures and is defined as:

- 1. For retrofit and new technology measures, measure cost is defined as the cost of new equipment, components or materials added to existing equipment for the purpose of improving energy efficiency. Labor costs may also be included if external labor.
- 2. For end-of-life equipment replacement measures, the cost differential between equipment meeting program efficiency criteria and equipment meeting the minimum efficiency allowable by code or industry standard.

For example, when replacing an existing injection molding machine that is at the end of its useful life with a new, high efficiency model, the price differential between the high efficiency model and a standard efficiency model is the MC. However, when adding a variable frequency drive to an existing boiler pump or when changing high pressure sodium light fixtures to fluorescent fixtures, the MC is the purchase price of the VFD or light fixtures including any external contracted labor for the installation.

Custom projects must have a simple payback period greater than or equal to one year and less than or equal to eight years to be eligible for an incentive. Project payback is equal to the ratio of the project MC divided by the annual energy bill savings.

Projects that are NOT eligible for an energy efficiency incentive include but are not limited to the following:

- Fuel switching (e.g. electric to gas or gas to electric)
- Changes in operational and/or maintenance practices or simple control modifications not involving capital costs
- On-site electricity generation
- Projects that involve peak-shifting (and not kWh savings)
- Renewables

Reservation Applications must be submitted for all custom projects while the existing equipment is still in operation so that existing conditions (base case) can be verified.

Requirements for Custom Project Electricity and/or Natural Gas Savings Calculation:

The annual electricity and/or gas savings must be calculated for custom projects using industry accepted engineering algorithms or simulation models. The applicant must estimate the annual electricity and/or gas usage of both the existing and proposed equipment based on the current operation of the facility. If the existing equipment is at the end of its useful life, the applicant must substitute equipment that would meet the applicable federal and local energy codes when calculating the annual energy savings.

The applicant must be able to clearly describe the method used to calculate the savings. The applicant must provide all assumptions used in the calculations and justify or cite a precedent for the assumptions. Acceptable methods of obtaining custom project data include detailed calulations, equipment or subsystem metering, and/or building energy model. DTE Energy will review the application, and is solely responsible for the final determination of the annual energy savings to be used in calculating the incentive amount. DTE Energy may need to conduct inspections both before and after the retrofit projects to verify equipment and operation conditions. DTE Energy also reserves the right to require specific measurement and verification activities, including monitoring, both before and after the retrofit, and to base the incentive payment on the results of these activities.