DTE Energy's Your Energy Savings℠ Program

Program Application

Follow This Easy Process:

1 Eligibility
Qualified measures installed at facilities served by DTE Energy per stated guidelines. Projects must result in an improvement in energy efficiency. Equipment must meet the specifications as explained in the application.

2 Incentive Reservations (Pre-Notification Applications)
Email, mail or fax a signed and completed copy of the application. Pre-Notification Applications are strongly encouraged for all projects and are required for custom projects.

3 Installation
Install eligible project and collect all required documentation for submittal.

4 Project Completion (Final Applications)
Email, mail or fax a signed and completed copy of the application and all required documentation. Calculate your total rebates per measure using the attached forms.

Send applications to:

Email
YourEnergySavings@kema.com

Mail
DTE Energy's Your Energy Savings Program
P.O. Box 11289
Detroit, MI 48211

Fax
1-877-607-0744

If you need assistance, please contact our program hotline
1-866-796-0512

Please visit our website
www.YourEnergySavings.com

PROGRAM GUIDELINES

DTE Energy is offering a comprehensive set of incentives under the DTE Energy's Your Energy Savings Program to facilitate the implementation of cost-effective energy efficiency improvements for business customers.

Funds are limited and incentive payments are dependent on fund availability. Applications for the current program year should be received by December 15, 2009 to qualify for payment in that program year.

Program and Project Eligibility

The program offers its business customers both prescriptive incentives for common energy efficiency measures and custom incentives for other eligible energy efficiency improvements.

For custom measures, the total incentive paid may not exceed 50 percent of the total project cost. Internal customer labor costs may not be included in project costs.

Program incentives are limited per facility per year. Customer incentive limits are across all facilities. A facility is defined as a single meter or multiple meters on a single property for which a single customer is responsible for paying the DTE Energy electricity and/or gas bill. 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 facility per program year; the total customer cap (across all facilities saving gas) is $100,000 per program year.

Program Year Incentive Limits

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

Pre-Notification Application Process

Pre-notification is required for custom measures, and strongly encouraged for all other measures in order to pre-approve incentive levels and reserve potential funding. The DTE Energy Your Energy Savings team will review project eligibility and reserve program funds. Neither an application nor a reservation will guarantee an incentive. Incentives will be calculated based on the final application. Project funds will be reserved for 90 days. Notify us at pre-notification submittal if your project will take longer than 90 days.

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 must include project documentation, such as copies of dated invoices for the purchase and installation of the measures and/or product specification sheets.

The project invoice should 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. DTE Energy reserves the right to request additional supporting documentation as deemed necessary to ensure measure eligibility and verify the expected energy savings will occur. Requested information could include: equipment purchase dates, installation dates, proof that the equipment is operational, manufacturer specifications, warranty information, and proof of customer co-payment. Applicants are encouraged to contact their account manager or call the program hotline at 1-866-796-0512 if they have any questions about documentation requirements. All customer information will be held in confidence.

Once all project information is received, the team will evaluate to confirm that the project meets the program requirements, perform necessary inspections and/or perform technical reviews. DTE Energy's Your Energy Savings Program will send incentive check 4-6 weeks after project 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, and interviews.

INCENTIVE APPLICATION CHECKLIST

PRE-NOTIFICATION APPLICATION

Required Attachment

- ☐ Customer/Contractor Information

Incentives Worksheets

- ☐ Lighting
- ☐ HVAC (Electric)
- ☐ Water-cooled Chillers
- ☐ Gas (HVAC, Water Heating)
- ☐ Motors
- ☐ Miscellaneous (Electric)
- ☐ Process (Electric)
- ☐ Food Service (Electric)
- ☐ Food Service & Miscellaneous (Gas)
- ☐ Custom

Application Date: _____

Expected Completion Date*: _____

**Project funds will only be reserved for 90 days from date of Pre-notification.*

FINAL APPLICATION

Required Attachments

- ☐ Customer/Contractor Information
- ☐ Signed Final Application Agreement

Incentives Worksheets

- ☐ Lighting
- ☐ HVAC (Electric)
- ☐ Water-cooled Chillers
- ☐ Gas (HVAC, Water Heating)
- ☐ Motors
- ☐ Miscellaneous (Electric)
- ☐ Process (Electric)
- ☐ Food Service (Electric)
- ☐ Food Service & Miscellaneous (Gas)
- ☐ Custom

Application Date: _____

FOR FINAL APPLICATION ONLY

MEASURE CATEGORY	INCENTIVE AMOUNT
LIGHTING	
HVAC (ELECTRIC)	
WATER-COOLED CHILLERS	
GAS (HVAC, WATER HEATING)	
MOTORS	
MISCELLANEOUS (ELECTRIC)	
PROCESS (ELECTRIC)	
FOOD SERVICE (ELECTRIC)	
FOOD SERVICE & MISCELLANEOUS (GAS)	
CUSTOM	
TOTAL INCENTIVES	

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www.YourEnergySavings.com

YOUR ENERGY SAVINGS

Your Energy Savings Program

DTE Energy

Retrofit Incentive Application

Important: Please read the terms and conditions before signing and submitting this application.
You must complete all information and provide required additional documentation to avoid processing delays.

CUSTOMER INFORMATION

Business Type

OFFICE	☐	MEDICAL	☐
SCHOOL (K-12)	☐	GROCERY	☐
COLLEGE/UNIVERSITY	☐	WAREHOUSE	☐
RETAIL/SERVICE	☐	LIGHT INDUSTRY	☐
RESTAURANT	☐	HEAVY INDUSTRY	☐
HOTEL/MOTEL	☐	Miscellaneous	☐

Tax Status *(as entered on W9)*

Corporation (Inc., PC, Etc.)	☐
Tax Exempt	☐
Individual	☐
Other (may receive 1099)	☐

_____ (describe other)

Natural Gas Provider

DTE Energy	☐
Consumers Energy	☐
_____ (other)	☐

Electricity provider

DTE Energy	☐
Consumers Energy	☐
_____ (other)	☐

Project Type

Existing Building	☐
New Construction	☐
Major Renovation	☐

NAME OF APPLICANT'S BUSINESS

PROJECT NAME (IF APPLICABLE)

DTE ENERGY CONTRACT ACCOUNT # (where measure is installed)	TAXPAYER ID # (SSN/FEIN)

NAME AS IT APPEARS ON DTE ENERGY BILL

NAME OF CONTACT PERSON		TITLE OF CONTACT PERSON		
CONTACT PHONE #	CONTACT FAX #	CONTACT EMAIL ADDRESS		
MAILING ADDRESS		CITY	STATE	ZIP
INSTALLATION ADDRESS		CITY	STATE	ZIP

CONTRACTOR INFORMATION

NAME OF CONTRACTING COMPANY

NAME OF CONTACT PERSON		TITLE OF CONTACT PERSON		
CONTACT PHONE #	CONTACT FAX #	CONTACT EMAIL ADDRESS		
MAILING ADDRESS		CITY	STATE	ZIP

FINAL APPLICATION AGREEMENT

As an eligible DTE Energy Customer, I certify the indicated energy efficiency measures were installed in 2009. The energy optimization measures are installed in a qualifying facility and not for resale. Additional program terms and conditions can be found in the Policy and Procedures Manual available at YourEnergySavings.com.

I understand that in the event the 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.

Selective terms and conditions include:

- Final Applications and all required documentation must be received within 60 days of project completion.
- 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 efficiency measures.
- 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 Parties") to be responsible for any work completed in connection herewith. Applicant fully releases DTE Parties from any and all claims it may have against DTE 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 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.

I have read and understand the program requirements and 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 same project.

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 understand this information is confidential and will only be used to evaluate my application for compliance with the program Policy and Procedures Manual.

INCENTIVES REQUESTED

TOTAL PROJECT COST	TOTAL INCENTIVES REQUESTED
	$0.00

CUSTOMER SIGNATURE		
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.

PAYMENT RELEASE AUTHORIZATION (OPTIONAL)

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

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 Terms & Conditions.

Authorized by:

CUSTOMER 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 Corporation (Inc., PC, Etc.), Tax Exempt, Individual, Other (May receive 1099)

LIST OF ELIGIBLE MEASURES

Lighting
Compact Fluorescent Screw-in Lamps
Reflector Flood Lamps
Compact Fluorescent Fixtures
ENERGY STAR® Qualified LED Recessed Down Light
Standard Linear Fluorescent Retrofit (T12 to T8 or T5)
High Output (HO) Linear Fluorescents (T12 to T8 or T5)
High Performance (HP) and Low Wattage (LW) 4-foot Linear Fluorescents
Interior High-Intensity Discharge (HID) to Fluorescent Fixtures
Garage/Exterior High-Intensity Discharge (HID) Conversion
Exit Signs Retrofit
LED Traffic Signals

Controls & Daylighting
Occupancy Sensors
Central Lighting Controls
Switching Controls for Multilevel Lighting
Daylight Sensor Controls
Exterior Lighting Bi-level Control w/Override
Light Tubes (Daylighting)

Food Service (Electric) & Refrigeration
New or Replacement Refrigerators and Freezers
New or Replacement Steam Cookers
New or Replacement Hot Holding Cabinets
Anti-Sweat Heater Controls
Night Covers
Efficient Refrigeration Condenser
Floating Head Pressure Controls

Food Service & Miscellaneous (Gas)
New or Replacement Steam Cookers
New or Replacement Ovens
New or Replacement Fryers/Griddles
Gas Water Heater Pre-Rinse Sprayers
Furnace Tube Inserts

HVAC (Gas)
Steam Traps
Space Heating Boilers
Boiler Tune Up
Boiler Modulating Burner Control
Boiler Reset Control
Pipe Wrap - Steam Boiler
High Efficiency Furnace or Rooftop Unit
Infrared Heaters
Roof Insulation
Programmable Thermostat/Hotel Guestroom Energy Management Control (Gas Heat)
Demand Control Ventilation
Chiller Water Reset/Energy Management System/Variable Frequency Drive on Secondary Chilled Water Pump (for gas reheat systems)

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
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

Motors
NEMA Premium Efficiency Motors 1—250 hp

Process Measures (Electric)
High Efficiency Pumps
Variable Frequency Drive on Pumps
Compressed Air Engineered Nozzle
Barrel Wraps for Injection Molders & Extruders
Insulated Pellet Dryer Ducts - 3" diameter

Water Heating (Gas)
Water Heat Pipe Wrap - Hot Water Boiler
Gas Water Heater
Gas Tankless Water Heater
High Efficiency Pool Heater (Gas Heat)
Pool Covers
High Efficiency Clothes Washer

Other Electric
Beverage Vending Machine Controllers
Plug Load Occupancy Sensor
Intelligent Surge Protector
High Efficiency Heat Pump Water Heater
Energy Efficient Ice Machines
High Efficiency Clothes Washer

LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not included as one of the measures below, you may submit it as a Custom Measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Compact Fluorescents and LEDs				
CFL - Screw-in (≤ 31 Watts)	$1.50	Lamp		
CFL - Screw-in (> 31 Watts)	$5.00	Lamp		
CFL Reflector Flood Lamps	$5.00	Lamp		
Compact Fluorescent Fixture	$22.00	Fixture		
42W 8 Lamp High Bay Compact Fluorescent Fixture	$75.00	Fixture		
ENERGY STAR® Qualified LED Recessed Down Light	$30.00	Fixture		
Standard Linear Fluorescent Retrofit (T12 to T8 or T5)				
1 Lamp T5	$10.50	Fixture		
2 Lamp T5	$15.00	Fixture		
3 Lamp T5	$18.00	Fixture		
4 Lamp T5	$21.00	Fixture		
1 lamp, 4ft T8	$7.50	Fixture		
2 lamp, 4ft T8	$9.00	Fixture		
3 lamp, 4ft T8	$11.00	Fixture		
4 lamp, 4ft T8	$13.00	Fixture		
1 lamp, 8ft T8	$7.00	Fixture		
2 lamp, 8ft T8	$9.00	Fixture		
1 lamp, 2ft T8	$7.50	Fixture		
2 lamp, 2ft T8	$9.00	Fixture		
3 lamp, 2ft T8	$9.30	Fixture		
4 lamp, 2ft T8	$12.00	Fixture		
1 lamp, 3ft T8	$7.50	Fixture		
2 lamp, 3ft T8	$9.00	Fixture		
3 lamp, 3ft T8	$12.75	Fixture		
4 lamp, 3ft T8	$18.00	Fixture		

LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not included as one of the measures below, you may submit it as a Custom Measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
High Output (HO) Linear Fluorescents (T12 to T8 or T5)				
1 lamp, 8ft T8 HO	$18.00	Fixture		
2 lamp, 8ft T8 HO	$24.00	Fixture		
1 Lamp T5 HO	$12.00	Fixture		
2 Lamp T5 HO	$16.50	Fixture		
3 Lamp T5 HO	$19.50	Fixture		
4 Lamp T5 HO	$22.50	Fixture		
High Performance (HP) and Low Wattage (LW) 4-foot Linear Fluorescents				
LW T8 (Lamps Only)	$0.75	Lamp		
1 lamp HP T8, replacing T8	$6.00	Fixture		
2 lamp HP T8, replacing T8	$7.50	Fixture		
3 lamp HP T8, replacing T8	$12.00	Fixture		
4 lamp HP T8, replacing T8	$16.00	Fixture		
1 lamp LW HP T8, replacing T8	$6.00	Fixture		
2 lamp LW HP T8, replacing T8	$9.00	Fixture		
3 lamp LW HP T8, replacing T8	$15.00	Fixture		
4 lamp LW HP T8, replacing T8	$18.00	Fixture		
1 lamp HP T8, replacing T12	$15.00	Fixture		
2 lamp HP T8, replacing T12	$22.50	Fixture		
3 lamp HP T8, replacing T12	$20.00	Fixture		
4 lamp HP T8, replacing T12	$30.00	Fixture		
2 lamp HP T8, replacing T12 8ft 1 lamp	$15.00	Fixture		
4 lamp HP T8, replacing T12 8ft 2 lamp	$22.50	Fixture		
2 lamp HP T8, replacing T12 HO 8ft 1 lamp	$20.00	Fixture		
4 lamp HP T8, replacing T12 HO 8ft 2 lamp	$30.00	Fixture		

LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not included as one of the measures below, you may submit it as a Custom Measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Interior High-Intensity Discharge (HID) to Fluorescent Fixtures				
3 Lamp T5 HO, replacing 250W HID	$80.00	Fixture		
4 Lamp T5 HO, replacing 400W HID	$96.00	Fixture		
6 Lamp T5 HO, replacing 400W HID	$60.00	Fixture		
Two 6 Lamp T5 HO, replacing 1000W HID	$150.00	Fixture		
4 Lamp 32W T8, replacing 250W HID	$75.00	Fixture		
6 Lamp 32W T8, replacing 400W HID	$80.00	Fixture		
8 Lamp 32W T8, replacing 400W HID	$80.00	Fixture		
Two 8 lamp 32W T8, replacing 1000W HID	$200.00	Fixture		
Pulse Start Metal Halide (retrofit only)	$75.00	Fixture		
Exterior High-Intensity Discharge (HID) Conversion				
LED or Induction replacing ≤175W HID	$100.00	Fixture		
LED or Induction replacing 175W to 250W HID	$150.00	Fixture		
LED or Induction replacing 250W to 400W HID	$180.00	Fixture		
Garage High-Intensity Discharge (HID) Conversion				
LED or Induction replacing ≤175W HID	$120.00	Fixture		
LED or Induction replacing 175W to 250W HID	$150.00	Fixture		
LED or Induction replacing 250W to 400W HID	$180.00	Fixture		
Exit Signs Retrofit				
LED Exit Signs Electronic Fixtures (Retrofit Only)	$12.50	Fixture		
LED Traffic Signals				
Auto Traffic Signals	$25.00	Signal		
Pedestrian Signals	$50.00	Signal		

LIGHTING INCENTIVES WORKSHEET

Note: If your lighting project is not included as one of the measures below, you may submit it as a Custom Measure.

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Controls				
Occupancy Sensors (≤ 500 Watts Controlled)	$30.00	Sensor		
Occupancy Sensors (> 500 Watts Controlled)	$50.00	Sensor		
Central Lighting Control	$600.00	10,000 SF		
Switching Controls for Multilevel Lighting	$600.00	10,000 SF		
Daylight Sensor Controls	$900.00	10,000 SF		
Exterior Lighting Bi-level Control w/Override, 150W to 1000W HID	$125.00	Fixture		
Light Tubes (Daylighting)				
Light Tube	$187.50	Tube		
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.

Compact Fluorescent Lamps, Screw-In (≤ 31 Watts)
Screw-in CFLs must be ENERGY STAR® rated lamps or meet ENERGY STAR® criteria. The lamps must have ≥ 50 lumens per watt (LPW).

Compact Fluorescent Lamps, Screw-In (> 31 Watts)
High wattage CFLs must replace existing incandescent lamps. The lamp should have a minimum luminous efficacy of 65 lumens per watt (LPW).

Compact Fluorescent Fixtures
For interior hardwired compact fluorescent fixtures, only complete new fixtures or modular hardwired retrofits with hardwired electronic ballasts qualify. The compact fluorescent ballast must be programmed start or programmed rapid start with a power factor (PF) ≥ 90 and a total harmonic distortion (THD) ≤ 20%.

Compact Fluorescent Reflector Flood Lamps
CFL reflector flood lamps must replace incandescent reflector flood lamps. The CFL reflector flood lamps should have a minimum luminous efficacy of 33 lumens per watt (LPW).

42W 8-Lamp Compact Fluorescent High Bay Fixture
Incentives are available in high-bay applications (ceiling heights over 15 feet) for replacing any lighting fixtures greater than or equal to 350W with 42 Watt 8 lamp compact fluorescent fixtures. Fixtures should contain high power-factor electronic ballasts, specular reflectors, and a fixture efficacy greater than 90%.

ENERGY STAR® Qualified LED Recessed Down Light
LED recessed downlights must be ENERGY STAR® qualified. They must have a minimum efficacy of 35 lumens per watt. The allowable color correlated temperatures (CCTs) are 2700K, 3000K, and 3500K.

Standard Linear Fluorescent Retrofit
This measure consists of replacing existing T12 lamps and magnetic ballasts with T8 or T5 lamps and electronic ballasts. The new fixture 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 a minimum of 5 years. Ballasts must have a power factor (PF) ≥ 0.90. Ballasts for 4-foot lamps must have total harmonic discharge (THD) ≤ 20% at full power output. For 2 and 3-foot lamps, ballasts must have THD ≤ 32% at full light output. A manufacturer's specification sheet must accompany the application.

High Output T8/T5 Lamp and Ballast replacing T12 Fluorescent Lamp
Incentives are available for replacing existing T12 lamps and magnetic ballasts with high output T5 or T8 lamps and electronic ballasts. The lamp must have a CRI ≥ 80. A manufacturer's specification sheet must accompany the application.

Low Wattage 4-foot T8 Lamps (Lamps Only)
Incentives are available when 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) specification (www.cee1.org) and summarized in Table 2 below. Low wattage lamps must be either 25W or 28W and listed on the CEE approved list. Qualified products can be found at http://www.cee1.org/com/com-lt/com-lt-main.php3.

High Performance 4-foot T8 Lamp and Ballast
This measure consists of replacing existing T12 or T12HO lamps and magnetic ballasts or standard T8 lamps and electronic ballasts with high performance T8 lamps and electronic ballasts. This measure is based on the Consortium for Energy Efficiency (CEE) high performance T8 specification (www.cee1.org) and 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 qualify for an incentive. A manufacturer's specification sheet must accompany the application.

Table 1: High Performance T8 Specifications

High Performance T8 and T5 Characteristics	
Mean System Efficiency	≥ 90 Mean Lumens per Watt (MLPW) for Instant Start Ballasts
	≥ 88 MLPW for Programmed Rapid Start Ballasts
Performance Characteristics for Lamps	
Color Rendering Index (CRI)	≥ 80
Minimum Initial Lamp Lumens	≥ 3100 Lumens *
Lamp Life	≥ 24,000 Hours
Lumen Maintenance or Minimum Mean Lumens	≥ 94% or ≥ 2900 Mean Lumens

LIGHTING SPECIFICATIONS

Performance Characteristics for Ballasts				
Ballast Efficacy Factor (BEF) BEF = (BFx100)/Ballast Input Watts	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
	2	> 1.60	> 1.58	> 1.55
	3	≥ 1.04	≥ 1.05	≥ 1.04
	4	≥ 0.79	≥ 0.80	≥ 0.77
	Programmed Rapid Start Ballast (BEF)			
	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 or ≥ 40 kHz			
Power Factor	≥ 0.90			
Total Harmonic Distortion	≤ 20%			

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

Low Wattage 4-foot T8 Lamp and Ballast

Incentives are available for replacing T12 systems with reduced (low) wattage lamp and electronic ballast systems. The lamps and ballasts must meet the Consortium for Energy Efficiency (CEE) specification (www.cee1.org) and summarized in Table 2 below. 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. A manufacturer's specification sheet must accompany the application.

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

Performance Characteristics for Lamps(1)		
Mean System Efficacy	≥ 90 MLPW	
Color Rendering Index (CRI)	≥ 80	
Minimum Initial Lamp Lumens	≥ 2585 Lumens for 28 W	
	≥ 2400 Lumens for 25 W	
Lamp Life(2)	≥ 18,000 hrs at three hours per start	
Lumen Maintenance –or- Minimum Mean Lumens(3)	≥ 94% -or- ≥ 2430 Lumens for 28 W ≥ 2256 Lumens for 25 W	
Performance Characteristics for 28 and 25 W Ballasts		
Ballast Frequency	20 to 33 Hz or ≥ 40 kHz	
Power Factor	≥ 0.90	
Total Harmonic Distortion	≤ 20%	
Performance Characteristics for Ballasts(4), 28 W systems		
Ballast Efficiency Factor (BEF)	Instant Start Ballast (BEF)	
BEF = [BF x 100]/Ballast Input Watts Based on: (1) Type of ballast (2) No. of lamps driven by ballast (3) Ballast Factor	Lamps	All BEF Ranges
	1	≥ 3.52
	2	≥ 1.76
	3	≥ 1.16
	4	≥ 0.88
Performance Characteristics for Ballasts(4), 25 W systems		
Ballast Efficiency Factor (BEF)	Instant Start Ballast (BEF)	
BEF = [BF x 100]/Ballast Input Watts Based on: (1) Type of ballast (2) No. of lamps driven by ballast (3) Ballast Factor	Lamps	All BEF Ranges
	1	≥ 3.95
	2	≥ 1.98
	3	≥ 1.32
	4	≥ 0.99

(1) Lamps ≥ 4500 K and/or 24,000 hours have a system efficiency 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.

(2)Life rating is based on an instant Start Ballast tested in accordance with ANSI protocols. When used for Program 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.

LIGHTING SPECIFICATIONS

High Output T5 and 4-foot T8 New Fixture Replacing HID
This measure consists of a one for one replacement of fixtures containing 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 for 4-foot lamps must have total harmonic distortion (THD) ≤ 20% at full light output. This incentive can be used in highbay and lowbay fluorescent applications.

Pulse Start Metal Halide (retrofit only)
Incentives are available in high-bay applications for replacing existing HID with pulse start metal halides. Total replacement wattage must be lower than existing wattage to insure energy savings.

Exterior or Garage HID to LED/Induction Lighting Retrofit
Incentives are available in exterior or garage applications for replacing existing high intensity discharge fixtures with LED or Induction fixtures. Fixture replacement must result in at least a 40% power reduction. LED fixtures should have a minimum efficacy of 35 lumens per watt. Applications include canopy lighting and wallpacks. This measure is applicable to exterior fixtures that are typically on about 12 hours a night. Photocells or time clocks should be utilized at facilities that do not control exterior fixtures during daylight hours.

Exit Signs
High-efficiency exit signs must replace or retrofit an existing incandescent exit sign. Electroluminescent, T1, and light-emitting diode (LED) exit signs are eligible under this category. Non-electrified and remote exit signs are not eligible. All new exit signs or retrofit 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® qualified.

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. Signals shall have a maximum LED module wattage of 25. Incentives are not available for spare lights. Lights must be hardwired, with the exception of pedestrian hand signals.

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. PIR sensors should not be placed in areas with many partitions. Ultrasonic sensors should not be placed in areas with constant air movement (ex. near HVAC diffusers). To assist in rebate processing, please provide the inventory of the controlled fixtures with the Final Application.

Central Lighting Control
Incentives are available for automated central lighting control systems with override capabilities. The occupants' schedule of operation must be taken into consideration when programming the system. This measure includes time clocks, package programmable relay panels, and complete building automation controls. Photosensors may also be incorporated into the central lighting control system. Rebate is calculated per 10,000 square feet of lighting controlled.

Switching Controls for Multilevel Lighting
This measure should be used with daylight or occupancy sensors and is applicable to spaces that require various lighting schemes (ex. classrooms, auditoriums, conference rooms). Multilevel lighting switching controls are also applicable to warehouse settings with skylights, where they can be combined with occupancy sensors and/or daylight controls. When combined with daylight or occupancy sensors, commissioning is highly recommended to ensure proper performance of the switching controls. Rebate is calculated per 10,000 square feet of lighting controlled.

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. The stepped controller generally dims the artificial lighting 50% when the interior illuminance levels reach 50% of the desired lighting levels. Continuous or dimming controllers dim artificial lighting proportional to the available daylight. All types of daylight sensor controls are required to be commissioned in order to ensure proper sensor calibration and energy savings.

Exterior Lighting, Bi-Level Control with Override
Incentives are available for installing exterior bi-level controls to HID lighting 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. The controls include on-off controls, dimmers, and hi-lo ballast controls. This measure is applicable to exterior fixtures that are on during the night.

Light Tube
Incentives are available for light tubes ("tubular skylights") 10" to 12" in diameter. The light tube uses a translucent or prismatic lens to reflect light captured from the roof into the interior space. This measure is applicable to spaces that normally require electric lighting during peak hours (1-4PM weekdays during the summer). The light tube must still allow an adequate amount of light during overcast conditions, and require coupling with daylight sensing controls.

HVAC (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type	Size Category	Qualifying Efficiency	Incentive (per ton)
Unitary and Split Air Conditioning Systems	≤ 65,000 Btuh (5.4 tons) - 1 Phase	14.0 SEER	$30.00
	≤ 65,000 Btuh (5.4 tons) - 3 Phase	13.0 SEER	$30.00
	> 65,000 Btuh (5.4 tons), ≤ 135,000 Btuh (11.3 tons)	11.0 EER	$40.00
	> 135,000 Btuh (11.3 tons), ≤ 240,000 Btuh (20 tons)	11.0 EER	$40.00
	> 240,000 Btuh (20 tons), ≤ 760,000 Btuh (63.3 tons)	10.0 EER	$40.00
	> 760,000 Btuh (63.3 tons)	10.0 EER	$30.00
Air Source Heat Pumps	≤ 65,000 Btuh (5.4 tons) - 1 Phase	14.0 SEER	$26.00
	≤ 65,000 Btuh (5.4 tons) - 3 Phase	13.0 SEER	$26.00
	> 65,000 Btuh (5.4 tons), ≤ 135,000 Btuh (11.3 tons)	11.0 EER	$40.00
	> 135,000 Btuh (11.3 tons), ≤ 240,000 Btuh (20 tons)	10.0 EER	$35.00
	>240,000 Btuh (20 tons)	10.0 EER	$36.00
Water Loop Heat Pump	≤ 17,000 Btuh (1.4 tons)	11.5 EER	$20.00
	> 17,000 Btuh (1.4 tons), ≤ 65,000 Btuh (5.4 tons)	12.3 EER	$15.00
	> 65,000 Btuh (5.4 tons), ≤ 135,000 Btuh (11.3 tons)	12.3 EER	$13.00
Room Air Conditioners	≤14,000 Btuh (1.17 tons)	Energy Star (Tier 1)	$75.00
	> 14,000 Btuh (1.17 tons)	Energy Star (Tier 1)	$50.00
Package Terminal Air Conditioner	All	9.2 EER	$25.00
Package Terminal Heat Pump	All	9.0 EER	$30.00

Equipment Type	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	Qualifying Efficiency	Qualifying Incentive (per ton)
Ground-Source Heat Pump	≤ 135,000 Btuh (11.3 tons)	EER = 17	$22.50
		EER = 19	$30.00
Ground Source Heat Pump (replacing Air Source Heat Pump)	> 135,000 Btuh (11.3 tons)	EER = 17	$150.00
		EER = 19	$175.00
Air-cooled Chiller	ALL	Full Load Efficiency =1.16 kW/ton	$40.00

Equipment Type	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)*	Unit	ALL	$20.00		
Energy Management System*	1,000 SF of Conditioned Floor Area	ALL	$2.86		
Hotel Guestroom Energy Management Control (Air Conditioning)*	Unit	ALL	$30.00		
Chilled Water Reset - Air Cooled	Ton	≤ 100 tons	$2.00		
		> 100 tons, ≤ 200 tons	$1.33		
		> 200 tons, ≤ 300 tons	$1.20		
		> 300 tons, ≤ 400 tons	$1.14		
		> 400 tons, ≤ 500 tons	$1.11		
Chilled Water Reset - Water Cooled	Ton	≤ 1,000 tons	$1.00		
		> 1,000 tons, ≤ 2,000 tons	$0.50		
		> 2,000 tons, ≤ 3,000 tons	$0.35		
Variable Frequency Drive - VAV 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	1,000 SF Roof Area	ALL	$50.00		
High Performance Glazing	100 SF of Glazing	ALL	$100.00		
Window Film	100 SF of Glazing	ALL	$70.00		

Total HVAC (Electric) Incentives:	

* Customer acknowledges and agrees that Customer cannot apply for nor receive incentives for the same product, equipment or service from more than one utility.

WATER-COOLED CHILLERS INCENTIVES WORKSHEET

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

WATER-COOLED CHILLERS INCENTIVES WORKSHEET

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

WATER-COOLED CHILLERS INCENTIVES WORKSHEET

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

Total Water-Cooled Chillers Incentives:	

HVAC (ELECTRIC) SPECIFICATIONS

Unitary and Split Air Conditioning Systems and Air Source Heat Pumps

New unitary air conditioning units or air source heat pumps that meet or exceed the qualifying cooling efficiency shown in Table 1 below are eligible for an incentive. They can be either split systems or single package units. The efficiency of split systems is based on an ARI reference number. Water-cooled systems, evaporative coolers, and water source heat pumps do not qualify under prescriptive, but may qualify for a custom incentive. All packaged and split system cooling equipment must meet Air Conditioning and Refrigeration Institute (ARI) standards (210/240, 320 or 340/360), be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). A manufacturer's specification sheet indicating the system efficiency must accompany the application. Disposal of the existing unit must comply with local codes and ordinances.

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

Equipment Type	Size Category	Qualifying Efficiency
Unitary and Split Air Conditioning Systems	≤ 65,000 Btuh (5.4 tons) 1 Phase	14.0 SEER
	≤ 65,000 Btuh (5.4 tons) 3 Phase	13.0 SEER
	> 65,000 Btuh (5.4 tons), ≤ 135,000 Btuh (11.3 tons)	11.0 EER
	> 135,000 Btuh (11.3 tons), ≤ 240,000 Btuh (20 tons)	11.0 EER
	> 240,000 Btuh (20 tons) ≤ 760,000 Btuh (63.3 tons)	10.0 EER
	> 760,000 Btuh (63.3 tons)	10.0 EER
Air Source Heat Pumps	≤ 65,000 Btuh (5.4 tons) 1 Phase	14.0 SEER
	≤ 65,000 Btuh (5.4 tons) 3 Phase	13.0 SEER
	> 65,000 Btuh (5.4 tons), ≤ 135,000 Btuh (11.3 tons)	11.0 EER
	> 135,000 Btuh (11.3 tons), ≤ 240,000 Btuh (20 tons)	10.0 EER
	> 240,000 Btuh (20.0 tons)	10.0 EER

Water Loop Heat Pumps

New water loop heat pumps that meet or exceed the qualifying cooling efficiency shown in Table 2 below are eligible for an incentive. All packaged cooling equipment must meet Air Conditioning and Refrigeration Institute (ARI) standards (210/240, 320 or 340/360), be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). A manufacturer's specification sheet indicating the system efficiency must accompany the application. Disposal of the existing unit must comply with local codes and ordinances.

Table 2: Efficiencies for Water Loop Heat Pumps

Size Category	Qualifying Efficiency
≤ 17,000 Btuh (1.4 tons)	11.5 EER
> 17,000 Btuh (1.4 tons)	12.3 EER

Room Air Conditioners

Room air conditioning units are through-the-wall (or built-in) self-contained units that are 2 tons or less. A unit must qualify under ENERGY STAR® standards. These units are with and without louvered sides, without reverse cycle (i.e., heating), and casement. Disposal of existing unit must comply with local codes and ordinances.

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

Package terminal air conditioners and heat pumps are through-the-wall self contained units that are 2 tons (24,000 Btuh) 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.

HVAC (ELECTRIC) SPECIFICATIONS

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

New ground source heat pumps with a capacity less than or equal to 135,000 Btuh that meet or exceed the qualifying Energy Efficiency Ratio (EER), as listed in the HVAC Incentive Worksheet Table, are eligible for an incentive. Additionally, new ground source heat pumps that replace an air source heat pump, have a capacity greater than 135,000 Btuh, and meet or exceed the qualifying Energy Efficiency Ratio (EER), as listed in the HVAC Incentive Worksheet Table, are also eligible for an incentive. All equipment must meet Air Conditioning and Refrigeration Institute (ARI) 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. A manufacturer's specification sheet indicating the system efficiency for cooling and heating must accompany the application. Disposal of the existing unit must comply with local codes and ordinances.

Air-Cooled Chillers

Chillers are eligible for an incentive if they have a rated kW/ton for the full load efficiency that is less than or equal to the qualifying efficiency of 1.16. The chiller efficiency rating must be based on ARI Standard 550/590-2003 for full-load conditions. The chillers must meet ARI standards 550/590-2003, be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). The ARI net capacity value should be used to determine the chiller tons. A manufacturer's specification sheet with the rated full load kW/Ton or COP must accompany the application.

Programmable Thermostat Setback/Setup (Air Conditioning)

Programmable thermostats must meet ENERGY STAR® criteria and replace any non-programmable thermostat to automatically adjust the temperature at pre-selected times. To meet ENERGY STAR® standards, they must be capable of maintaining two separate programs (to address the different comfort needs of weekdays and weekends) and up to four temperature settings for each program. The minimum setback period duration must be 25% of the weekly hours, with a minimum temperature differential of at least five degrees for the setback period. A current list of ENERGY STAR® qualified thermostats may be found at http://downloads.energystar.gov/bi/qplist/prog_thermostat_prod_list.pdf.

Energy Management System

Certain energy management system (EMS) upgrades are eligible for an incentive. The upgrade must 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 in a system that previously operated with a constant chilled water set point and constant pump flow rates operating 24/7. Upgrade must include hardware installation for new controls. This incentive is per 1,000 square feet of the conditioned floor area affected by the EMS upgrade.

Hotel Guestroom Energy Management Control (Air Conditioning)

Incentives are available for sensors that control PTAC, heat pump, and other HVAC units for individual hotel rooms. Sensors controlled by a front desk system are not eligible. Sensors must be controlled by automatic occupancy detectors, and it is recommended that during unoccupied periods, the default setting for controlled units differ by at least 8 degrees from the operating setpoint. The incentive is per guest room controlled, not per sensor; for multi-room suites the incentive is available per room controlled, if a sensor is installed in each room. Replacement or upgrades of existing occupancy-based controls are not eligible as a prescriptive incentive.

Chilled Water Reset – Air and Water Cooled Chillers

Chilled water reset controls are eligible for an incentive on systems with fixed chilled water temperature set points by allowing the chilled water temperature to increase by at least 5°F during periods of low-flow (low load). This incentive is based on the tonnage of the chiller capacity affected by the control upgrade with varying incentive rates based on the size categories listed in Table 4 below. Upgrade must include hardware installation for new controls.

HVAC (ELECTRIC) SPECIFICATIONS

Table 4: Chilled Water Reset – Incentive Size Categories

Measure Name	Size Category
Chilled Water Reset - Air Cooled	≤ 100 tons
	> 100 tons, ≤ 200 tons
	> 200 tons, ≤ 300 tons
	> 300 tons, ≤ 400 tons
	> 400 tons, ≤ 500 tons
Chilled Water Reset - Water Cooled	≤ 1,000 tons
	> 1,000 tons, ≤ 2,000 tons
	> 2,000 tons, ≤ 3,000 tons

Variable Frequency Drives – VAV Fans and Chilled Water Pumps

Variable frequency drives (VFD) installed on existing HVAC variable air volume (VAV) fans and secondary chilled water pumps are eligible for this incentive. New chillers with integrated VFDs are eligible under the chiller incentive, installing VFDs on existing chillers and package unit compressors, or installing VFDs on other HVAC fans and pumps (such as cooling tower fan) may be eligible under the custom incentive. VFDs on new equipment are not eligible. 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. The fan incentive is only allowed when a VFD is installed on a supply or return fan of a built up VAV air handler system. The pump incentive is only allowed when a VFD is installed to the secondary pump of a constant volume primary/secondary pumping system (in most cases the three-way chilled water coil control valves must be retrofitted to two-way control valves). This incentive is based on the controlled horsepower (hp) of the fan or pump.

Economizer

Air-side economizers are eligible for an incentive when they are added as a dual temperature (return air and outside air) controlled upgrade to a HVAC system that previously operated with a fixed outside air setting (and no economizer). This incentive is based on the capacity (tons) of the system upgraded with the economizer.

Cool Roofs

Cool roofs are eligible for an incentive as a building upgrade when they have a solar absorptance of 0.3 or less and are installed over an area being cooled by vapor-compression air conditioners (evaporative-cooled spaces are not eligible). The incentive is calculated per 1,000 square feet of roof area.

High Performance Glazing

High performance glazing is eligible for an incentive when it has a minimum five-year manufacturer's warranty and replaces clear double-pane glass or lesser performing glazing. The new glazing must have a Solar Heat Gain Coefficient (SHGC) value of 0.39 or less and a U-value of 0.57 or less. The space upgraded with the glazing must be cooled by vapor-compression air conditioners (evaporative-cooled spaces are not eligible). The glazing specification must be documented on the invoice, as well as square footage installed. 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. Windows with northern exposure (± 45 degrees of due North) do not qualify for this rebate. This incentive is calculated per 100 square feet of glazing replaced.

Window Film

Window film is eligible for an incentive when it has a minimum five-year manufacturer's warranty and is 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 or less and a U-value of 0.72 or less. The space upgraded with the window film must be cooled by vapor-compression air conditioners (evaporative-cooled spaces are not eligible). The film specification must be documented on the invoice, as well as square footage installed. 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. Windows with northern exposure (± 45 degrees of due North) and/or dual-pane glass do not qualify for this rebate. This incentive is calculated per 100 square feet of glazing upgraded with the film.

Water-Cooled Chillers

Chillers are eligible for an incentive if they have a rated kW/ton for the Integrated full load and Part Load Value (IPLV) that is less than or equal to the qualifying efficiency shown in the HVAC chiller incentive worksheet. The chiller efficiency rating must be based on ARI Standard 550/590-2003 for IPLV and/or based on full-load conditions. The chillers must meet ARI standards 550/590-2003, be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). The ARI net capacity value should be used to determine the chiller tons. A manufacturer's specification sheet with the rated full load kW/Ton or COP and kW/Ton-IPLV or COP-IPLV must accompany the application.

GAS INCENTIVES WORKSHEET

HVAC

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Steam Traps				
Leaking Steam Trap Repair or Replacement	$50.00	Unit		
Space Heating Boilers				
High Efficiency Boilers	$3.00	kBtuh		
Boiler Controls				
Boiler Tune-Up	$250.00	Unit		
Boiler Modulating Burner Control Retrofit (5:1 or 10:1 turn-down)	$1,250.00	Unit		
Boiler Reset Control	$300.00	Unit		
Other				
Pipe Wrap - Steam Boiler	$4.00	Linear Feet		
High Efficiency Furnace or Rooftop Unit	$350.00	Unit		
Infrared Heaters*	$1.50	kBtuh		
Chiller Water Reset*	$1.00	Ton		
Variable Frequency Drive on Secondary Chilled Water Pump*	$20.00	Pump HP		
Roof Insulation*	$200.00	1,000 SF Roof Area		
Programmable Thermostat (Gas Heat)*	$50.00	Unit		
Energy Management System*	$3.00	1,000 SF of Conditioned Floor Area		
Demand Control Ventilation*	$35.00	1,000 SF		
Hotel Guestroom Energy Management Control (Gas Heat)*	$35.00	Unit		
Total HVAC (gas) Incentives:				

WATER HEATING

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Pipe Wrap - Hot Water Boiler	$4.00	Linear Feet		
Gas Water Heater (< 75 gal, < 75,000 Btu/hr)	$35.00	Unit		
Gas Tankless Water Heater	$150.00	Unit		
High Efficiency Pool Heater (gas heat)	$2.00	MBtu		
Pool Covers	$0.15	SF Surface Area		
High Efficiency Clothes Washer (Gas Water Heat, Electric Dryer)	$50.00	Unit		
High Efficiency Clothes Washer (Gas Water Heat, Gas Dryer)	$50.00	Unit		
Total Water Heating Incentives:				

* Customer acknowledges and agrees that Customer cannot apply for nor receive incentives for the same product, equipment or service from more than one utility.

GAS SPECIFICATIONS

General Clause for Heating Measures

The incentive is eligible 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 should be used. The incentives for boilers are only available for equipment used in space heating conditions, except for steam traps. Equipment for process load qualifies under the custom program.

Steam Trap Repair/Replacement

The incentive is only available for repair or replacement of traps that have malfunctioned and are leaking steam. It is not available for traps which have failed closed or are plugged. The incentive is available once in a 24 month period per facility. Replacement with an orifice trap is not eligible for incentive. Steam trap repair work must be recorded and attached to the incentive application by the vendor. A spreadsheet with repair/replacement results must be provided. Details of documentation requirements are provided in the program Policies and Procedures Manual.

High Efficiency Space Heating Boiler

Boiler incentives are only available for equipment used in space heating conditions. Equipment for process loads do not qualify. Boilers purchased for backup or redundancy are not eligible. Boilers must modulate their firing rate and have a sealed combustion unit. Applicant must submit boiler specifications with steady state boiler input and output ratings. The ratings will be defined per ANSI Standard Z21.13. Note that high efficiency condensing boilers will provide the rated efficiency only if return water is cold enough to condense the flue gases. If the heating system cannot meet the requirement, a non-condensing boiler may be a better choice. Qualifying efficiencies are shown in Table 1 below.

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

Input Rating (Btu/h)	Minimum Efficiency
< 300,000	0.85 AFUE
≥ 300,000	85% Combustion Efficiency

Boiler Tune-up

This incentive is only available for natural gas space-heating boilers. The minimum burner size for measure eligibility is 110,000 Btu/hr. The incentive is available once in a 24 month period. The service provider must perform before and after combustion efficiency tests and record the results on the boiler tune-up incentive application. Burner must be adjusted to improve combustion efficiency as needed. The incentives are only available for equipment used in space heating conditions. Equipment for process load does not qualify. Details of documentation requirements are provided in the program Policies and Procedures Manual.

Boiler Modulating Burner Control

The control must have a minimum of 5 to 1 or 10 to 1 turn-down ratio. Boiler must operate a minimum of 4000 hours per year to be eligible for this incentive. The incentive is eligible only for retrofit projects, not for new controls on a new boiler. The incentives are only available for equipment used in space heating conditions.

Boiler Water Reset Control

Outside air temperature reset or cutout control incentives are for existing space heating boilers only. A new boiler with boiler reset controls is not eligible. The system must be set so that the minimum temperature is not more than 10 degrees above manufacturer's recommended minimum return temperature. For controls on multiple boilers to qualify, control strategy must stage the lag boiler(s) only after the first boiler stage(s) fail to maintain the boiler water temperature called for by the reset control.

Pipe Wrap - Steam Boiler

A minimum of 1 inch of R-4 pipe insulation must be added to existing bare commercial or industrial steel pipe system applications. The bare pipe size must be at least ½" or larger. A minimum of 10 linear feet of pipe must be insulated. Insulation used for pipes should be high density fiberglass shaped for pipes and blankets, batts of fiberglass or mineral wool for flat sections. Applications must include the manufacturer's name, insulation material type, and the material k-value or R-value rating. All hot surfaces should be insulated.

GAS SPECIFICATIONS

High Efficiency Gas Furnace or Rooftop Unit
Furnaces must be 95 AFUE or greater and have a sealed combustion unit. Furnaces must vary output by using a variable speed blower motor (ECM or brushless DC) and have at least two firing stages. Two-speed or multi-speed motors are not permitted. Air handlers are not eligible for the incentive. Chimney liners must be installed where a high efficiency natural gas furnace replaces atmospherically drafted equipment that was vented through the same flue as a gas water heater. Flue closure protocol must be used when a high efficiency furnace is installed and the chimney is no longer in use. The incentives are only available for equipment used in space heating conditions. Equipment purchased for backup or redundancy is not eligible. Rooftop units with condensing burners also qualify.

Infrared Heaters
Only building space heating applications are eligible. High-intensity and low-intensity heaters are eligible. Low-intensity heaters must use outside non-conditioned air for combustion. Heaters must have electronic ignition.

Chilled Water Reset – Air and Water Cooled Chillers
Chilled water reset controls are eligible for an incentive on systems with fixed chilled water temperature set points by allowing the chilled water temperature to increase by at least 5°F during periods of low-flow (low load). This incentive is based on the tonnage of the chiller capacity affected by the control upgrade. Upgrade must include hardware installation for new controls. The building must have hydronic system reheat to qualfiy.

Variable Frequency Drives – Secondary Chilled Water Pumps
Variable frequency drives (VFD) installed on existing secondary chilled water pumps are eligible for this incentive. New chillers with integrated VFDs are eligible under the chiller incentive, installing VFDs on existing chillers and package unit compressors, or installing VFDs on other HVAC fans and pumps (such as cooling tower fan) may be eligible under the custom incentive. VFDs on new equipment are not eligible. 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. The pump incentive is only allowed when a VFD is installed to the secondary pump of a constant volume primary/secondary pumping system (in most cases the three-way chilled water coil control valves must be retrofitted to two-way control valves). This incentive is based on the controlled horsepower (hp) of the pump.The building must have hydronic system reheat to qualfiy.

Roof Insulation
Must have space heating or cooling source using natural gas or electricity distributed to the installation address by DTE. All materials must be new. Materials must meet or exceed all applicable local, state and federal standards and installed according to manufacturer requirements. Attic and roof/ceiling insulation is eligible for a rebate only if the pre-retrofit insulation level is R-12 or less, and if installed between conditioned area and unconditioned space. The final insulation level must be at least R-18 unless a higher level is specified by local jurisdiction. Dropped commercial ceilings are not eligible for rebate. If purchasing insulation, remember that your rebate is based on the amount of insulation actually installed. No new construction allowed.

Programmable Thermostat Setback/Setup (Gas Heat)
Programmable thermostats must meet ENERGY STAR® criteria and replace any non-programmable thermostat to automatically adjust the temperature at pre-selected times. To meet ENERGY STAR® standards, they must be capable of maintaining two separate programs (to address the different comfort needs of weekdays and weekends) and up to four temperature settings for each program. The minimum setback period duration must be 25% of the weekly hours, with a minimum temperature differential of at least five degrees for the setback period. A current list of ENERGY STAR® qualified thermostats may be found at http://downloads.energystar.gov/bi/qplist/prog_thermostat_prod_list.pdf.

Energy Management System
Certain energy management system (EMS) upgrades are eligible for an incentive. The upgrade must 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 in a system that previously operated with a constant chilled water set point and constant pump flow rates operating 24/7. Upgrade must include hardware installation for new controls. This incentive is per 1,000 square feet of the conditioned floor area affected by the EMS upgrade. The building must have hydronic system reheat to qualfiy.

GAS SPECIFICATIONS

Demand Control Ventilation
Install ventilation controls on existing buildings that use carbon dioxide levels to measure occupancy and modify the percentage of outside air based on variable levels. Only building with space heating and cooling applications are eligible. Conditioned spaces must be kept between 65ºF and 75ºF 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 air side economizers. Dual temperature air-side economizers with zone-level CO2 sensors for rooftop units qualify, and return system CO2 sensors are required for built up systems. Controlled space must meet the minimum requirements of the current ASHRAE 62 standard, as well as all local building code, and manufacturer's recommendations.

Guestroom Energy Management Control (Gas Heat)
Incentives are available for sensors that control HVAC units for individual hotel rooms. Sensors controlled by a front desk system are not eligible. Sensors must be controlled by automatic occupancy detectors, and it is recommended that during unoccupied periods, the default setting for controlled units differ by at least 8 degrees from the operating set point. The incentive is per guest room controlled, not per sensor; for multi-room suites the incentive is available per room controlled, if a sensor is installed in each room. Replacement or upgrades of existing occupancy-based controls are not eligible as a prescriptive incentive.

Pipe Wrap - Hot Water Boiler
A minimum of 1 inch of R-4 pipe insulation must be added to existing bare commercial or industrial steel pipe system applications. The bare pipe size must be at least ½" or larger. A minimum of 10 linear feet of pipe must be insulated. Insulation used for pipes should be high density fiberglass shaped for pipes and blankets, batts of fiberglass or mineral wool for flat sections. Applications must include the manufacturer's name, insulation material type, and the material k-value or R-value rating. All hot surfaces should be insulated.

Gas Storage Water Heater
Heater must replace existing natural gas water heater < 75 gallons and <75,000 Btuh that has an Energy Factor of 0.62 or greater.

Gas Tankless Water Heater
Heater must replace existing natural gas water heater. Unit must be power vented with an Energy Factor of 0.82 or greater.

High Efficiency Pool Heater
Heater must be equal to or greater than 84% thermal efficiency and must replace pre-existing pool heater. Heater must be rated between 500,000 Btuh and 2,000,000 Btuh. Must have an on/off switch and have no pilot light. The pool heater cannot be used as a back-up for solar water-heating. Incentive is per rated MBtu (equals to one million Btu).

Pool Covers
The pool size must be between 400 - 4,000 square feet to qualify for the incentive. Equipment must be new, and the cover must be a manual, semi-automatic or automatic pool cover.

High Efficiency Clothes Washer (Gas Water Heater)
Qualified clothes washers must meet a minimum efficiency of CEE Tier 2 with a Modified Energy Factor (MEF) ≥ 2.00 and a Water Factor (WF) ≤ 6.00.

MOTOR INCENTIVES WORKSHEET

NEMA Premium-Efficiency Motors — Minimum Qualifying Efficiencies							
	3600 RPM		1800 RPM		1200 RPM		
Horse Power	Open	Closed	Open	Closed	Open	Closed	Incentive per HP
1	77.0%	77.0%	85.5%	85.5%	82.5%	82.5%	$10.00
1.5	84.0%	84.0%	86.5%	86.5%	86.5%	87.5%	$10.00
2	85.5%	85.5%	86.5%	86.5%	87.5%	88.5%	$10.00
3	85.5%	86.5%	89.5%	89.5%	88.5%	89.5%	$10.00
5	86.5%	88.5%	89.5%	89.5%	89.5%	89.5%	$10.00
7.5	88.5%	89.5%	91.0%	91.7%	90.2%	91.0%	$8.00
10	89.5%	90.2%	91.7%	91.7%	91.0%	91.0%	$8.00
15	90.2%	91.0%	93.0%	92.4%	91.7%	91.7%	$8.00
20	91.0%	91.0%	93.0%	93.0%	92.4%	91.7%	$8.00
25	91.7%	91.7%	93.6%	93.6%	93.0%	93.0%	$6.00
30	91.7%	91.7%	94.1%	93.6%	93.6%	93.0%	$6.00
40	92.4%	92.4%	94.1%	94.1%	94.1%	94.1%	$6.00
50	93.0%	93.0%	94.5%	94.5%	94.1%	94.1%	$6.00
60	93.6%	93.6%	95.0%	95.0%	94.5%	94.5%	$6.00
75	93.6%	93.6%	95.0%	95.4%	94.5%	94.5%	$6.00
100	93.6%	94.1%	95.4%	95.4%	95.0%	95.0%	$6.00
125	94.1%	95.0%	95.4%	95.4%	95.0%	95.0%	$4.00
150	94.1%	95.0%	95.8%	95.8%	95.4%	95.8%	$4.00
200	95.0%	95.4%	95.8%	96.2%	95.4%	95.8%	$4.00
250	95.0%	95.8%	95.8%	96.2%	95.4%	95.8%	$4.00

Motor Make/Model	Qty. (A)	Motor Size (HP) (dropdown)	Select Motor Speed (rpm) (dropdown)	Select Motor Type (open/closed) (dropdown)	Motor Efficiency	Incentive per Motor (B)	Incentive (A x B)

Total Motor Incentives:

MOTOR SPECIFICATIONS

NEMA Premium Motors

Motors eligible for an incentive are three-phase AC induction motors, 1-250 HP, of open drip-proof (open) and totally enclosed fan-cooled (closed) classifications. Rewound motors do not qualify. Incentives are based on the motor's Nominal Full Load Efficiencies, tested in accordance with IEEE (Institute of Electrical and Electronics Engineers) Standard 112, method B, that meet or exceed the NEMA Premium efficiency standards on the Motor Incentives Worksheet. The application must include the manufacturer's performance data sheet that at least shows equipment type, equipment size, model number, and efficiency rating. Customers should consider matching RPMs of the existing pump or fan when installing energy efficient motors that inherently have higher speeds (less slip), which may affect electric energy use.

Program incentives for this measure are available until December 19, 2010. Per new federal efficiency standards enacted in H.R. 6, all general purpose motors (subtype I) manufactured after December 19, 2010, with a power rating between 1 and 200 horsepower are required to have nominal full-load efficiencies equal to or greater than the NEMA MG– 1 (2006) Table 12–12 (aka "NEMA Premium®" efficiency) levels.

MISCELLANEOUS (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
Occupancy Sensors and Controls				
Beverage Vending Machine Controllers	$50.00	Unit		
Plug Load Occupancy Sensor	$37.50	Unit		
Intelligent Surge Protector	$10.00	Unit		
High Efficiency Heat Pump Water Heater				
10 to 50 MBH	$2,000.00	Unit		
50 to 100 MBH	$3,500.00	Unit		
100 to 300 MBH	$5,000.00	Unit		
300 to 500 MBH	$7,000.00	Unit		
> 500 MBH	$9,000.00	Unit		
Energy Efficient Ice Machines				
< 500 lbs	$300.00	Unit		
500 to 1000 lbs	$450.00	Unit		
1000 to 1500 lbs	$1,000.00	Unit		
Clothes Washers				
High Efficiency Clothes Washer (Electric Water Heat, Electric Dryer)	$50.00	Unit		
High Efficiency Clothes Washer (Electric Water Heat, Gas Dryer)	$50.00	Unit		
Total Miscellaneous (Electric) Incentives:				

MISCELLANEOUS (ELECTRIC) SPECIFICATIONS

Beverage Vending Machine Controllers
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. Also, the control logic should power up the machine at a minimum of every 2 hours to maintain product temperature and provide compressor protection. For refrigerated beverage machines located indoors, backlighting lamps and ballasts should be removed to obtain additional energy savings.

Plug Load Occupancy Sensor
This rebate applies to passive infrared and/or ultrasonic detectors only. Plug-load sensors must control electricity using equipment in offices or cubicles, including shared copiers and/or printers. The sensor must control at least three devices.

Intelligent Surge Protector
This rebate applies to surge protectors with built-in plug-load detection and control capabilities. The surge protector ("power strip") must include at least one uncontrolled socket which a primary device would be connected to. Turning the primary device (usually a computer) on or off will subsequently turn the associated controlled devices in the power strip on or off (ex. printers, monitors, etc.). The 'smart' power strip may also contain sockets for devices that require a constant supply of power; these will not be affected by the 'control' device.

High Efficiency Heat Pump Water Heater
This rebate applies to installing a heat pump water heater of COP equal to or greater than 3.0 to replace an existing electric hot water heater. The heat pump size is in MBH (1,000 Btuh).

Energy Efficient Ice Machines
The incentive offering covers ice machines that generate 60 grams (2 oz.) or lighted ice cubes, flaked, crushed, or fragmented ice. Only air-cooled machines qualify (self-contained, ice-making heads, or remote condensing). 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). A manufacturer's specification sheet must accompany the application shows rating in accordance with ARI Standard 810.

High Efficiency Clothes Washer (Electric Water Heater)
Qualified clothes washers must meet a minimum efficiency of CEE Tier 2, with a Modified Energy Factor (MEF) ≥ 2.00 and a Water Factor (WF) ≤ 6.00.

PROCESS (ELECTRIC) INCENTIVES WORKSHEET

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
High Efficiency Pumps				
1.5 HP	$50.00	HP		
2 HP	$40.00	HP		
3 HP	$30.00	HP		
5 HP	$30.00	HP		
7.5 HP	$25.00	HP		
10 HP	$25.00	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		
Other				
Compressed Air Engineered Nozzle	$30.00	Unit		
Barrel Wraps for Injection Molders & Extruders	$1.00	Machine Ton		
Insulated Pellet Dryer Ducts - 3" diameter	$15.00	Linear feet		
Insulated Pellet Dryer Ducts - 4" diameter	$20.00	Linear feet		
Insulated Pellet Dryer Ducts - 5" diameter	$25.00	Linear feet		
Insulated Pellet Dryer Ducts - 6" diameter	$30.00	Linear feet		
Insulated Pellet Dryer Ducts - 8" diameter	$40.00	Linear feet		
Total Process (Electric) Incentives:				

PROCESS (ELECTRIC) SPECIFICATIONS

Variable Frequency Drives for Process Pumping

VFD must be used in conjunction with a process (non HVAC) pumping application. Redundant or back-up units do not qualify. Routine replacement of existing VFDs does not qualify. VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal. The installation of a VSD must accompany the permanent removal or disabling of any throttling devices such as throttling valves. To qualify for this incentive, the pump must operate at least 2,000 hours per year. The incentive is per controlled HP.

High Efficiency Pumps

Submittals for incentive should include a pump performance curve demonstrating a pump efficiency of the following for the design operating condition. To qualify for this incentive, the pump must operate at least 2,000 hours per year. Qualifying efficiencies are shown in Table 1 below.

Table 1: Qualifying Pump Efficiency

Horsepower	Pump Efficiency
1.5 – 7.5	≥73%
10	≥75%
15 – 20	≥77%

Engineered Nozzle

The engineered nozzle must replace simple open pipe/tube assemblies connected to a compressed air system. Usage of the nozzles must be 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 an SCFM (standard cubic feet per minute) rating at 80 psig less than or equal to those rated in Table 2 below.

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

Insulated blankets strapped around barrels of extruders or injection molders are eligible for this incentive. Blankets must be installed on previously un-insulated barrels, in accordance with manufacturer recommendations.

Insulation for Pellet Dryer Tanks and Ducts

Insulation placed on tanks and flexible ducts of pellet dryers is eligible for this incentive. Insulation must be installed on previously un-insulated ducting with a diameter of 3 to 8 inches, or on centralized, recirculating hoppers in accordance with manufacturers' recommendations. Insulation may not be placed on transportable drums. Incentives are only applicable to products capable of maintaining duct steady-state temperatures of 200°F maximum. Most standard HVAC insulation is only rated to 140°F.

FOOD SERVICE (ELECTRIC) AND REFRIGERATION INCENTIVES WORKSHEET

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
New or Replacement Refrigerators and Freezers				
ENERGY STAR® Commercial Solid Door Refrigerators (< 20 cu ft)	$125.00	Unit		
ENERGY STAR® Commercial Solid Door Refrigerators (20 - 48 cu ft)	$250.00	Unit		
ENERGY STAR® Commercial Solid Door Refrigerators (> 48 cu ft)	$450.00	Unit		
ENERGY STAR® Commercial Solid Door Freezers (< 20 cu ft)	$150.00	Unit		
ENERGY STAR® Commercial Solid Door Freezers (20 - 48 cu ft)	$150.00	Unit		
ENERGY STAR® Commercial Solid Door Freezers (> 48 cu ft)	$150.00	Unit		
New or Replacement Steam Cookers*				
ENERGY STAR® Steam Cookers (3 Pan, Electric)	$450.00	Unit		
ENERGY STAR® Steam Cookers (4 Pan, Electric)	$600.00	Unit		
ENERGY STAR® Steam Cookers (5 Pan, Electric)	$750.00	Unit		
ENERGY STAR® Steam Cookers (6 Pan, Electric)	$900.00	Unit		
New or Replacement Hot Holding Cabinets				
ENERGY STAR® Hot Holding Cabinets (Half Size)	$350.00	Unit		
ENERGY STAR® Hot Holding Cabinets (Three Quarter Size)	$400.00	Unit		
ENERGY STAR® Hot Holding Cabinets (Full Size)	$600.00	Unit		
Other				
Anti-Sweat Heater Controls	$100.00	Door		
Night Covers	$5.00	Linear feet		
Efficient Refrigeration Condenser	$275.00	Ton		
Floating Head Pressure Controls	$7.00	Ton		
Total Food Service (Electric) and Refrigeration Incentives:				

* Customer acknowledges that Customer cannot apply for nor receive incentives for the same product, equipment or service from more than one utility.

FOOD SERVICE (ELECTRIC) & REFRIGERATION SPECIFICATIONS

ENERGY STAR® Commercial Solid Door Refrigerator
New units must be ENERGY STAR®. Cases with remote refrigeration systems do not qualify.

ENERGY STAR® Commercial Solid Door Freezer
New units must be ENERGY STAR®. Cases with remote refrigeration systems do not qualify.

ENERGY STAR® Steam Cookers (Electric)
New units must be ENERGY STAR® with a Cooking Energy Efficiency of 50% for all size units. This incentive applies towards the purchase of new or replacement energy efficient electric steamers (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

ENERGY STAR® Hot Holding Cabinets
New units must be ENERGY STAR® and <40 W per cubic foot. This incentive applies towards the purchase of new or replacement energy efficient electric hot food holding cabinets. This measure does not include cook and hold equipment. Used or rebuilt equipment is not eligible.

Anti-Sweat Heater Controls
A control device is installed that senses 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 low-humidity conditions. Technologies that can turn off anti-sweat heaters based on sensing condensation (on the inner glass pane) also qualify. Rebate is based on the total number of doors controlled on the case.

Night Covers
Rebates are available for night covers installed on open refrigerated display cases in supermarkets and grocery stores. The purpose of night covers is to reduce the amount of heat loss from the open refrigerated display cases during facility non-operating hours. The store must have a minimum of 6 non-operating hours per day for this measure to qualify. To decrease moisture build-up, it is recommended that the night covers are perforated. Applicant should consider using proper compressor capacity modulation and ensure the case manufacturer has no objections to use of a night cover.

Efficient Refrigeration Condenser
Design and installation of oversized condensers for multiplex refrigeration systems are eligible for this incentive. A design reducing the approach (difference in existing refrigerant and ambient dry build 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, a minimum of 195 Btu/hr/Watt is required.

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
This incentive is 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 will replace existing constant pressure or manually controlled system. Incentive only available to assist with the purchase of hardware needed to achieve lowered head pressure to maintain a minimum saturated condensing temperature set point of 70ºF, or a 20ºF variance below design heat pressure during milder weather conditions.

FOOD SERVICE & MISCELLANEOUS (GAS) INCENTIVES WORKSHEET

Equipment Type	Incentive	Unit	# of Units	Incentive Calculated
New or Replacement Steam Cookers*				
ENERGY STAR® Steam Cookers (5 Pan, Gas)	$750.00	Unit		
ENERGY STAR® Steam Cookers (6 Pan, Gas)	$900.00	Unit		
New or Replacement Ovens				
Convection Ovens	$300.00	Unit		
Combination Ovens	$1,250.00	Unit		
Rack Oven Single	$400.00	Unit		
Rack Oven Double	$800.00	Unit		
New or Replacement Fryers/Griddles				
ENERGY STAR® Fryer	$225.00	Unit		
Large Vat Fryer	$300.00	Unit		
Griddles	$250.00	Unit		
Miscellaneous				
Furnace Tube Inserts	$75.00	Unit		
Pre-Rinse Sprayers (gas water heat)	$25.00	Unit		
Total Food Service & Miscellaneous (Gas) Incentives:				

* Customer acknowledges that Customer cannot apply for nor receive incentives for the same product, equipment or service from more than one utility.

FOOD SERVICE (GAS) & MISCELLANEOUS SPECIFICATIONS

ENERGY STAR® Steam Cookers (Gas)
New units must be ENERGY STAR® with a Cooking Energy Efficiency of 38% for both 5 and 6 pan units. This incentive applies towards the purchase of new or replacement energy efficient gas steamers (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

Convection Ovens
New units must have a Cooking Energy Efficiency of at least 40%. This incentive applies towards the purchase of new or replacement energy efficient gas convection ovens (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

Combination Ovens
New units must have a Cooking Energy Efficiency of at least 40%. This incentive applies towards the purchase of new or replacement energy efficient gas combination ovens (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

Rack Oven
New units must have a heavy load Cooking Energy Efficiency of at least 50% for both single and double rack ovens. This incentive applies towards the purchase of new or replacement energy efficient gas rack ovens (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

ENERGY STAR® Fryers
New units must be ENERGY STAR® with a heavy load Cooking Energy Efficiency of at least 50%. This incentive applies towards the purchase of new or replacement energy efficient gas fryers (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

Large Vat Fryers
New units must have a heavy load Cooking Energy Efficiency of at least 80%. This incentive applies towards the purchase of new or replacement energy efficient gas large vat fryers (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible. Multi vat configurations are paid per unit.

Griddles
New units must have a Cooking Energy Efficiency of at least 38%. This incentive applies towards the purchase of new or replacement energy efficient gas griddles (fuel switching applications are not eligible). Used or rebuilt equipment is not eligible.

Furnace Tube Inserts
Spiral ceramic inserts installed in the exhaust leg of heat treating furnace burner tubes are eligible for this incentive. The inserts must be new and replace existing U, W, or trident shaped burner tubes.

Pre-Rinse Sprayers (Gas Water Heater)
A low-flow, high efficiency pre-rinse sprayer less than or equal to 1.6 gallons per minute (gpm) must replace a sprayer of 2.2 gpm or greater. Customer must be a gas customer of the utility, and use gas fueled water heating.

CUSTOM INCENTIVES WORKSHEET

Please attach supporting documentation as described in the Policies and Procedures Manual.

Item 1

Description	Annual kWh Savings	$/kWh	Subtotal
		$0.08	
	Annual MCF Savings		
	Measure Cost	$/MCF	
		$4.00	
	Payback Period*		

Item 2

Description	Annual kWh Savings	$/kWh	Subtotal
		$0.08	
	Annual MCF Savings		
	Measure Cost	$/MCF	
		$4.00	
	Payback Period*		

Item 3

Description	Annual kWh Savings	$/kWh	Subtotal
		$0.08	
	Annual MCF Savings		
	Measure Cost	$/MCF	
		$4.00	
	Payback Period*		

Item 4

Description	Annual kWh Savings	$/kWh	Subtotal
		$0.08	
	Annual MCF Savings		
	Measure Cost	$/MCF	
		$4.00	
	Payback Period*		

Total Project Cost:	

Total Custom Incentives:**	

Note: Customer acknowledges and agrees that Customer may neither apply for nor receive incentives for the same product, equipment or service from more than one utility unless there are both electric and gas savings.

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

** Total Custom Incentives may not exceed 50% of the measure cost.

CUSTOM SPECIFICATIONS

Custom projects must involve a facility improvement that results in a permanent reduction in electrical (kWh) and/or natural gas energy usage (MCF) 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. However, projects that involve an automated control technology such as energy management system programming may be eligible for an incentive.

Projects involving measures covered by the prescriptive incentive portion of the program are not eligible for a custom incentive. Applicants have the option to apply for a custom incentive for projects that involve an integrated solution with both prescriptive and custom measures. For custom projects, project incentives may not exceed 50% of the total custom project cost for purchasing and installing energy efficiency measures.

Projects that are NOT eligible for an energy efficiency incentive include 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

Project payback equals the ratio of the project cost divided by the annual energy bill savings. Project payback must be greater than or equal to one year and less than eight years to be eligible for a custom incentive.

Pre-notification application must be submitted for all custom projects while the existing equipment is still in operation in order to allow DTE Energy the opportunity to verify the existing equipment.

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 document the source for these assumptions. DTE Energy will review the submittal, 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.