

Multifamily Program

DTE

2021 Measures and Specifications Catalog



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Questions?

Call 866.796.0512 or email DTEMultifamily@michiganeficiency.com

Program and Project Eligibility

DTE Energy is offering a comprehensive set of incentives to facilitate the implementation of cost-effective energy-efficiency improvements for customers that own or manage a multifamily property.

The incentive program offers multifamily customers prescriptive incentives for many common energy-efficiency measures and custom incentives for other eligible improvements. This program is not available to DTE Energy business customers. Commercial and industrial customers are eligible to participate in the DTE Energy Efficiency Program for Business.

For prescriptive measures, the maximum allowable incentive is 100 percent of the total project cost. For custom measures, the maximum allowable incentive is limited to 50 percent of the implementation cost of all eligible custom measures. Internal customer labor costs cannot be included in project costs.

Program incentives are limited per project and customer for each Program year. A project is defined as a unique energy-efficiency measure or set of measures implemented at a single building or contiguous property in a single time span. A project may be prescriptive, custom or a combination of both. A separate invoice is required to support and identify each project. The customer is defined as a multifamily property owner or manager, with a unique taxpayer ID number, that is responsible for the DTE Energy utility bill for one or more facilities.

Funds are limited and incentive payments are dependent on fund availability. Completed Final Applications for the 2021 Program year must be submitted by Nov 30, 2021.

2021 Program Year Incentive Limits and Minimums

Participation in the Program is subject to incentive limits as follows:

Market-Rate Customers

\$100,000 total incentives per property per year.

Income Qualified Customers

\$100,000 per property or \$2,000 per apartment unit, whichever is higher, per year.

Minimum application amount is \$100.

Application Process

The DTE Energy Multifamily Program has prepared this catalog as a reference guide on specific measures.

To see the most up-to-date information and apply for incentives, please access our online portal, NGAGE. Contractors/trade allies should initially register for an account at tradeally.efficiencynavigator.com/Account/Register and subsequently submit applications at tradeally.efficiencynavigator.com. Please contact us if you need assistance registering for or applying for incentives through NGAGE. You may also submit a separate Incentive Application and corresponding incentive worksheet(s).

NOTE: Prescriptive projects with estimated incentives over \$1,000 and all custom projects require a Reservation Application prior to beginning your project.

Follow This Easy Process:

1. Are you eligible?

To apply for incentives, the property must be a DTE Energy customer in good standing. The DTE Energy Multifamily Program specifically applies to properties with three (3) or more units under one roof. The equipment must be installed at a facility served by DTE Energy (one facility per application). Customers who purchase natural gas from a third party but have a DTE Energy account for transportation of natural gas must receive approval for natural gas projects.

2. About the measures

Equipment installed must meet the specifications detailed in this catalog. Consult the incentive worksheets included for specific information on each measure available. If you need assistance with understanding technical information or the feasibility of installing certain measures, contact our Program Team.

3. Reservation application

Before you start your project, please submit your application to reserve incentives from our limited funds. Reservation Applications are strongly encouraged for all projects and are required prior to starting any custom and some prescriptive projects (see page 8 for more information). A custom project is one with measures that are not on our list of prescriptive measures. Once your application is submitted, a member of our Program Team will contact you to confirm receipt and will provide pre-approval, if applicable.

4. Installation

Please complete your project within 90 days of receiving a Reservation Letter from us that confirms we are holding incentives for you. All projects must be completed and have Final Applications submitted by November 30, 2021.

5. Project completion (final application)

Final Applications and required documentation must be submitted within 60 days of completion of your project or by Nov. 30, 2021, whichever comes first. Applications received after that date may not be processed. Required documentation includes dated, itemized invoices, manufacturers' specification sheets, and a signed Final Application Agreement.

When meeting in-person, social distancing will be practiced and team members will wear a mask and gloves. For everyone's safety we ask that you also wear a mask.

Reservation Application Process

A reservation is required for all custom and certain prescriptive measures identified in the incentive worksheets, and strongly encouraged for all other prescriptive measures with incentives totaling \$1,000 or more. If your project requires a reservation, do not begin any part of your project (including removal of old fixtures) until after you have submitted your Reservation Application, submitted to any pre-upgrade inspections that may be required (up to 14 days) and received a Reservation Letter confirming that funds have been reserved for your project. The DTE Energy Multifamily Program Team will review project eligibility and will contact you to conduct any pre-upgrade inspections that may be necessary to 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 or until Nov. 30, 2021, whichever comes first.

Final Application Review Process

Final Applications must be submitted within 60 days of project completion or by Nov. 30, 2021, whichever comes first.

Applicants who submit incomplete applications will be notified of deficiencies. Final Applications for each project must include project documentation, including copies of dated, itemized invoices for purchases and, if applicable, cost of installation of the energy-efficient equipment and manufacturers' product specifications. Multiple projects using the same invoices must be itemized by site, and the sum of all quantities of equipment per site must not exceed the total invoice quantity.

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. Attach or insert the related specifications, invoices and other supporting documentation along with the reference number(s) related to each measure. Reference numbers are listed alongside each measure in the Program Application. DTE Energy reserves the right to request additional supporting documentation as deemed necessary to ensure eligibility for each measure 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 should call 866.796.0512 if they have any questions about documentation requirements. All customer information will be held in confidence.

Once your final application and required documentation is received, a member of the program team will review your application and inform you of any deficiencies. Post-installation inspections may be required before projects are processed for payment.

Inspections

DTE Energy reserves the right to inspect all projects to verify compliance with 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.

Income Qualified Customers

DTE Energy offers an Income Qualified component as part of the Multifamily Program. The Income Qualified program is focused on energy savings for both subsidized and income qualified public housing multifamily properties by offering enhanced incentives and specialized services for this segment. An Income Qualified Multifamily property may be eligible to participate if they meet any one the following requirements:

1. Participation in an affordable housing program.

Automatic qualification for any property that can provide evidence of participation in a federal, state, or local affordable housing program, for example: LIHTC, HUD, USDA, MSHDA, local tax abatement for income qualified properties, etc.

2. Location in an income qualified Census Tract.

Location within HUD's annually published "Qualified Census Tracts". More information can be found at www.huduser.gov/portal/sadda/sadda_qct.html.

3. Rent roll documentation.

Submission of rent rolls documenting that the average rents charged by a particular property are affordable to households meeting HUD's definition of income qualified. Properties with average rental rates at or below 80% of local "Fair Market Rent" as published annually by HUD will be eligible to participate in the Income Qualified incentives.

4. Resident income information

Submission of resident income information showing that at least 50% of apartment units are rented to households meeting one of the following criteria:

- A. At or below 200% of the Federal Poverty Level
- B. At or below 80% of Area Median Income

Please see the Income Qualified program supplement for Income Qualified incentives and Program Rules.

Incentive Application Checklist

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

Submittal Date

Property Name

Is this a Final Application? Yes No

Which Multifamily Program are you applying for? In-Unit Common-Area Income Qualified

Are you applying for low interest rate financing through Michigan Saves? Yes No

Submit completed forms and required documentation with using one of the following methods:

DTE Energy Multifamily Program

Email: DTEMultifamily@michiganefficiency.com

NGAGE: tradeally.efficiencynavigator.com

Mail: 8045 2nd Ave
Detroit, MI 48202

Reservation Application

Fill out this side when reserving incentives.

Required attachments

- Incentive Application 7
- Proposal/Scope of Work
- Manufacturers' Specifications

Note: Prescriptive projects over \$1,000 and all custom projects require a Reservation Application prior to the start of any work.

Incentive worksheets*

- Lighting 10
- HVAC Electric 13
- Hot Water 14
- HVAC Gas 14
- Miscellaneous Gas 15
- Furnace/Boiler Tune-Up 15
- New Construction 16
- Custom 17

Reservation application date

Expected completion date**

*Use Incentive Worksheets from the 2021 Income Qualified Supplement if applying for IQ incentives.

**Project funds will only be reserved to the date specified on the Reservation Letter or Nov. 30, 2021, whichever comes first.

Final Application

Fill out this side when project is completed.

Required attachments

- Incentive Application 7
- Signed Final Application Agreement 9
- Optional Third-Party Payment Authorization 9
- Manufacturers' Specifications
- Itemized Invoices

Incentive worksheets*

- Lighting 10
- HVAC Electric 13
- Hot Water 14
- HVAC Gas 14
- Miscellaneous Gas 15
- Furnace/Boiler Tune-Up 15
- New Construction 16
- Custom 17

Final application date

Actual completion date**

*Use Incentive Worksheets from the 2021 Income Qualified Supplement if applying for IQ incentives.

**Application must be submitted within 60 days of completion date or by Nov. 30, 2021, whichever comes first.

You must complete all applicable pages before submitting this application.

Final Application Agreement

The energy waste reduction measures listed within are being/have been installed in a qualifying time frame, at a qualifying facility and are not for resale.

I understand that in the event this application received a reservation of funds, 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:

1. Final Applications and all required documentation must be received within 60 days of project completion or by Nov. 30, 2021, whichever comes first. Incomplete applications, missing documents or applications submitted after that date may render the application ineligible for incentive payment(s).
2. The Program has a limited budget. Applications will be processed until allocated funds are reserved or spent.
3. All equipment must be purchased, installed and commissioned prior to submitting the Final Application.
4. Applicant agrees to inspection and measurement activities by DTE Energy or its representative of both project payment and equipment installation for up to five years from the date of equipment installation.
5. 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.
6. 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 regulation 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/wastes.
7. 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.
8. 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.

9. 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 nonpayment of incentives or any work performed in connection with them.
10. DTE Energy reserves the right to associate with your business and participation in the incentive program for promotion and advertising purposes.
11. Applicant acknowledges that Federal Energy Regulatory Commission (FERC) Order issued on June 1, 2012, at Docket No ER11-4081-000 ("FERC Order") approves of the inclusion of energy-efficiency resources as planning resources in a utility's resource adequacy plan (all italicized terms as defined in the FERC Order). Accordingly, Applicant and DTE Energy agree that all such rights afforded with respect to energy-efficiency resources, including but not limited to the right to identify them as a planning resource so as to include them in a resource adequacy plan, shall inure exclusively and fully to DTE Energy. Applicant agrees that it will not claim ownership in such energy-efficiency resources for purposes of identifying them as a planning resource in accord with the FERC Order or include them in a resource adequacy plan.

I have read and understand the measure specifications and program guidelines set forth in the application 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 have not received incentives from any other utility for the same project.

I certify that the information on this application is true and accurate. I acknowledge and understand that it is necessary for DTE Energy to store, use and share the information contained in this application, as well as information collected in connection with this project, including but not limited to my business name, address, account number and energy consumption data ("Customer Data") for various purposes. Therefore, I hereby authorize DTE Energy to collect, store and use the customer data for internal purposes and to present me with other energy saving opportunities. I further authorize DTE Energy to share the customer data with third-party vendors/contractors who are doing work on DTE Energy's behalf.

Final Agreement Information and Account Holder Signature Page

Before you submit: Review the summary above to ensure all incentive areas reflect the worksheets you've completed in this application.

Important: Please carefully read the Final Application Agreement on page 8 and be sure to sign page 9 before submitting your paperwork.

Final Agreement Information and Account Holder Signature

DTE Project Number	Actual Completion Date
Total Project Cost	Total Incentives Requested
DTE Account Holder Name (print)	DTE Account Holder Title
DTE Account Holder Signature	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. **By signing this form, I agree to all terms and conditions.**

Optional Third-Party Payment Authorization

Important Notes:

1. Complete the section below **ONLY** if the incentive payment is to be paid to a **SINGLE** entity other than the DTE Account Holder.
2. Do **NOT** use the section below, if payments are to be made to **MORE** than a single third party.

For payments being made to **two or more third parties**, please check this box request a copy of the Third-Party Addendum, have it signed by the DTE Account Holder and attach it to this Final Application.

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 and Final Application Agreement.

Authorized by (print name)	Title
Phone #	Email
DTE Account Holder Signature	Date

Check Should Be Made Payable To:

Payee: Company/Individual Name

Mailing Address

City	State	ZIP
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Contact Phone #

Prescriptive Incentive Worksheets

Lighting Incentive Worksheet

LED Lamp Replacing Incandescent/Halogen - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-L1	Interior LED replacing A-Line 50-80W Lamp	\$3.50	Lamp		
CA-L2	Interior LED replacing A-Line 80-100W Lamp	\$5.00	Lamp		
CA-L3	Interior LED Flood Par/BR/R Lamp	\$5.00	Lamp		
CA-L4	Interior LED Candelabra Lamp with 24/7 operation	\$10.00	Lamp		
CA-L5	Interior LED Candelabra Lamp with non-24/7 operation	\$5.00	Lamp		
CA-L6	Exterior LED A-Style Screw-In Lamp	\$3.50	Lamp		
CA-L7	LED Downlight	\$15.00	Fixture		
CA-L8	LED Exit Signs Electronic Fixtures Retrofit or Replacement	\$12.50	Fixture		

LED Lamp Replacing CFL (Interior or Exterior) - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-L9	LED PAR/BR/R Lamp	\$5.00	Lamp		
CA-L10	LED <9W A-Style Lamp	\$3.50	Lamp		
CA-L11	LED 9-14W A-Style Lamp	\$3.50	Lamp		
CA-L12	LED 15-20W A-Style Lamp	\$3.50	Lamp		
CA-L13	LED >20W A-Style Lamp	\$3.50	Lamp		
CA-L14	LED Candelabra Lamp	\$5.00	Lamp		
CA-L15	LED MR16 Lamp	\$5.00	Lamp		
CA-L16	CFL Fixture to LED	\$7.00	Fixture		

Lighting Controls - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-L17	Interior Occupancy Sensor serving <150 sq ft	\$10.00	Sensor		
CA-L18	Interior Occupancy Sensor serving 150-500 sq ft	\$25.00	Sensor		
CA-L19	Interior Occupancy Sensor serving >500 sq ft	\$50.00	Sensor		
CA-L20	LED Stairwell Bi-Level Control	\$350.00	kW controlled		
CA-L21	Exterior Occupancy Sensor	\$0.40	Watt controlled		
CA-L22	Garage LED Bi-Level Control	\$40.00	Fixture controlled		

LED Lamp Replacing Incandescent/Halogen - In-Unit (Pre-Approval Required)

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-L1	Interior LED replacing A-line 50-80W Lamp	\$2.00	Lamp		
IU-L2	Interior LED replacing A-line 80-100W Lamp	\$3.50	Lamp		
IU-L3	Interior LED Flood Par/BR/R Lamp	\$3.50	Lamp		
IU-L4	Interior LED Candelabra Lamp with non-24/7 operation	\$3.50	Lamp		
IU-L5	Exterior LED A-Style Screw-In Lamp	\$2.00	Lamp		
IU-L6	LED Downlight	\$15.00	Fixture		
IU-L7	LED Globe	\$3.50	Lamp		

Incentive Subtotal	
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Interior Linear LED - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>10x 4 Lamp T12 to LED</i>	<i>10</i>	<i>144</i>	<i>40</i>	<i>1040</i>	<i>\$0.50</i>	<i>\$520</i>
CA-L23						\$0.50	
CA-L24						\$0.50	
CA-L25						\$0.50	
CA-L26						\$0.50	

Exterior or Garage HID to LED - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>4x 400 watt HID to 150 watt LED</i>	<i>4</i>	<i>455</i>	<i>150</i>	<i>1220</i>	<i>\$0.40</i>	<i>\$488</i>
CA-L27						\$0.40	
CA-L28						\$0.40	
CA-L29						\$0.40	
CA-L30						\$0.40	

HID lights include: Metal Halide, Mercury Vapor, High Pressure Sodium and Low Pressure Sodium

Interior HID to Mogul Base LED - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>4x 400 watt HID to 150 watt LED</i>	<i>4</i>	<i>455</i>	<i>150</i>	<i>1220</i>	<i>\$0.40</i>	<i>\$488</i>
CA-L31						\$0.40	
CA-L32						\$0.40	
CA-L33						\$0.40	

HID lights include: Metal Halide, Mercury Vapor, High Pressure Sodium and Low Pressure Sodium

Exterior HID to Mogul Base LED - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>4x 400 watt HID to 150 watt LED</i>	<i>4</i>	<i>455</i>	<i>150</i>	<i>1220</i>	<i>\$0.40</i>	<i>\$488</i>
CA-L34						\$0.40	
CA-L35						\$0.40	
CA-L36						\$0.40	

HID lights include: Metal Halide, Mercury Vapor, High Pressure Sodium and Low Pressure Sodium

Note: Incentive is based on watts reduced.

Incentive Subtotal	
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Interior Liner LED (24/7 Usage) - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>10x 4 lamp T12 to LED</i>	<i>10</i>	<i>144</i>	<i>40</i>	<i>1040</i>	<i>\$0.75</i>	<i>\$780</i>
CA-L37						\$0.75	
CA-L38						\$0.75	
CA-L39						\$0.75	

Garage HID to LED (24/7 Usage) - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>4x 400 watt HID to 150 watt LED</i>	<i>4</i>	<i>455</i>	<i>150</i>	<i>1220</i>	<i>\$0.75</i>	<i>\$915</i>
CA-L40						\$0.75	
CA-L41						\$0.75	
CA-L42						\$0.75	

Interior or Garage HID to Mogul Base LED (24/7 Usage) - Common Area

Ref #	Brief Description of Pre- and Post-Fixtures	# of Fixtures (B)	Pre-Upgrade Watts Per Fixture (C)	Post-Upgrade Watts Per Fixture (D)	Total Watts Reduced (B x (C - D)) = (E)	Incentive \$ Per Watts Reduced (F)	Total Incentive (E*F)
<i>Example</i>	<i>4x 400 watt HID to 150 watt LED</i>	<i>4</i>	<i>455</i>	<i>150</i>	<i>1220</i>	<i>\$0.75</i>	<i>\$915</i>
CA-L43						\$0.75	
CA-L44						\$0.75	
CA-L45						\$0.75	

Incentive Subtotal	
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HVAC Electric Incentive Worksheet

HVAC Electric - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-E1	Unitary and Split Air Conditioning Systems	\$15.00	Tons		
CA-E2	Room Air Conditioners <8,000 Btu hr	\$10.00	AC Unit		
CA-E3	Room Air Conditioners ≥8,000 Btu hr	\$10.00	AC Unit		

Ref #	Equipment Type	Incentive	Unit	# of Units	Total area of conditioned space (square feet)	Total Incentive
CA-E4	Programmable Thermostat (Air Conditioning) Common Area	\$10.00	Thermostat			

HVAC Electric - In-Unit

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-E1	Room Air Conditioners <8,000 Btu hr	\$10.00	Unit		
IU-E2	Room Air Conditioners ≥8,000 Btu hr	\$10.00	Unit		
IU-E3	Packaged Terminal Heat Pump	\$50.00	Ton		
IU-E4	Packaged Terminal Air Conditioner	\$40.00	Ton		
IU-E5	Air-Source Heat Pump (Mini-Split)	\$30.00	Ton		

Ref #	Equipment Type	Incentive	Unit	# of Units	Total area of conditioned space (square feet)	Total Incentive
IU-E	Programmable Thermostat (Air Conditioning) In-Unit	\$10.00	Thermostat			

Space Cooling Chiller Tune-Up

Checklist

Site Name		Date of Tune-Up	
Manufacturer		Type (Ref. Charge/DX coil/Chiller)	
Model Number	Annual Hours of Operation	Serial Number	Unit Size (Tons)
Company Performing Tune-Up		Technician Performing Tune-Up	

All must be completed:

- | | | |
|--|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Clean the air-cooled condenser coils | <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Inspect and/or replace filters | <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Inspect and/or replace belts | <input type="checkbox"/> Check and repair evaporator condition | <input type="checkbox"/> Validate subcooling and superheat |
| <input type="checkbox"/> Check and repair the electrical contractors | <input type="checkbox"/> Validate compressor amp draw | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate supply motor amp draw | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Validate high-pressure controls | <input type="checkbox"/> Validate condenser fan(s) amp draw | <input type="checkbox"/> Lubricate all motors and check coupling alignment |
| <input type="checkbox"/> Clean water-cooled chiller condenser tubes | <input type="checkbox"/> Check liquid line temperature | |

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-E5	Chiller Tune-Up	\$5.00	Ton		

Incentive Subtotal	
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Hot Water Incentive Worksheet

Hot Water - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-W1	Indirect Domestic Hot Water Heating System	\$2.25	Input MBH		
CA-W2	Tankless Water Heater	\$150.00	Heater		
CA-W3	Pool Heater (gas heat)	\$2.00	Input MBH		
CA-W4	Gas Storage Water Heater ≤55 gallons	\$85.00	Heater		
CA-W5	Combination Heating/DHW Boiler	\$3.75	Input MBH		

Hot Water - In-Unit

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-W1	Tankless Water Heater	\$150.00	Heater		
IU-W2	Gas Storage Water Heater ≤55 gallons	\$85.00	Heater		
IU-W3	Low Flow Showerhead - Gas Water Heat	\$3.00	Unit		
IU-W4	Low Flow Bathroom Aerator - Gas Water Heat	\$1.00	Unit		
IU-W5	Low Flow Kitchen Aerator - Gas Water Heat	\$1.00	Unit		
IU-W6	Low Flow Showerhead - Electric Water Heat	\$7.00	Unit		
IU-W7	Low Flow Bathroom Aerator - Electric Water Heat	\$2.00	Unit		
IU-W8	Low Flow Kitchen Aerator - Electric Water Heat	\$3.00	Unit		
IU-W9	Pipe Wrap - DHW (>120°F)	\$1.00	Linear Ft		
IU-W10	Heat Pump Domestic Water Heater	\$500.00	Heater		

HVAC Gas Incentive Worksheet

HVAC Gas - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-G1	Boiler Water Reset Control Retrofit	\$0.50	Input MBH		
CA-G2	Furnace Retrofit	\$150.00	Furnace		
CA-G3	Space Heating Boiler <300 MBH input (≥92% AFUE)	\$2.00	Input MBH		
CA-G4	Space Heating Boiler <300 MBH input (≥95% AFUE)	\$5.00	Input MBH		
CA-G5	Space Heating Boiler 300-2500 MBH input (≥88% Thermal Eff.)	\$1.50	Input MBH		
CA-G6	Space Heating Boiler 300-2500 MBH input (≥90% Thermal Eff.)	\$2.00	Input MBH		
CA-G7	Space Heating Boiler >2500 MBH input (≥88% Combustion Eff.)	\$1.50	Input MBH		
CA-G8	Space Heating Boiler >2500 MBH input (≥90% Combustion Eff.)	\$2.00	Input MBH		
CA-G9	Steam Trap Repair or Replacement	\$100.00	Trap		
CA-G10	Infrared Heaters	\$5.00	Input MBH		
CA-G11	Programmable Thermostat (Gas Heat)	\$10.00	Thermostat		

HVAC Gas - In-Unit

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-G1	Furnace Retrofit	\$150.00	Furnace		
IU-G2	Programmable Thermostat (Gas Heat)	\$10.00	Thermostat		
IU-G3	Vertical Packaged HVAC Unit	\$150.00	Unit		

Incentive Subtotal	
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Miscellaneous Gas Incentive Worksheet

Pipe Wrap - Common Area (Pre-Approval Required)

All pipe wrap incentives are limited to 500 linear feet.

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-G12	Pipe Wrap - Steam Boiler (>250°F)	\$5.00	Linear Foot		
CA-G13	Pipe Wrap - Hot Water Boiler (>180°F)	\$3.00	Linear Foot		
CA-G14	Pipe Wrap - Domestic Hot Water (>120°F)	\$1.00	Linear Foot		
CA-G15	Pipe Wrap - PEX Domestic Hot Water (>120°F)	\$1.00	Linear Foot		

Miscellaneous Gas Incentives - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-G16	Exterior Door Retrofit	\$10.00	Door		
CA-G17	Window Retrofit	\$0.25	Sq. Foot		
CA-G18	Airtight Can Light	\$5.00	Lamp		

Furnace/Boiler Tune-Up Incentive Worksheet

Tune-Up Checklist

Site Name		Date of Tune-Up			
Manufacturer	Type (check one)	<input type="checkbox"/> Hot Water Boiler	<input type="checkbox"/> Steam Boiler	<input type="checkbox"/> Furnace	<input type="checkbox"/> RTU
Model Number		Annual Hours of Operation			
Serial Number		Unit Input Capacity (MBH)			
Company Performing Tune-Up		Technician Performing Tune-Up			

- | | |
|--|---|
| <input type="checkbox"/> Measure post-combustion efficiency using electronic flue gas analyzer | <input type="checkbox"/> Include a copy of the combustion analyzer post-test (boilers only) |
| <input type="checkbox"/> Adjust combustion airflow and air intake as needed, reduce excessive stack temperatures | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Adjust burner and gas input, manual or motorized draft controls | <input type="checkbox"/> Check adequacy of combustion air intake |
| <input type="checkbox"/> Clean burners, combustion chamber and heat exchanger surfaces | <input type="checkbox"/> Check for proper venting |
| <input type="checkbox"/> Complete visual inspection of system piping and installation | <input type="checkbox"/> Check draft control dampers |
| | <input type="checkbox"/> Clean and inspect burner nozzles |

Tune-Up - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-G19	Domestic Hot Water Tune-Up ≥199 Input MBH	\$75.00	Boiler		
CA-G20	Furnace Tune-Up 40-80 MBH	\$40.00	Furnace		
CA-G21	Furnace Tune-Up 81-120 MBH	\$80.00	Furnace		
CA-G22	Space Heating Boiler Tune-Up 110-250 Input MBH	\$150.00	Boiler		
CA-G23	Space Heating Boiler Tune-Up 251-500 Input MBH	\$250.00	Boiler		
CA-G24	Space Heating Boiler Tune-Up >500 Input MBH	\$350.00	Boiler		

Tune-Up - In-Unit

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-G4	Domestic Hot Water Tune-Up ≥199 Input MBH	\$75.00	Boiler		
IU-G5	Furnace Tune-Up 40-80 MBH	\$40.00	Furnace		
IU-G6	Furnace Tune-Up 81-120 MBH	\$80.00	Furnace		
IU-G7	Space Heating Boiler Tune-Up 110-250 Input MBH	\$150.00	Boiler		
IU-G8	Space Heating Boiler Tune-Up 251-500 Input MBH	\$250.00	Boiler		
IU-G9	Space Heating Boiler Tune-Up >500 Input MBH	\$350.00	Boiler		

Incentive Subtotal	
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New Construction Incentive Worksheet

Low Rise (3 stories or less) - Common Area

All pipe wrap incentives are limited to 500 linear feet. Incentives for projects >500 linear feet REQUIRE PRE-APPROVAL.

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-N1	Space Heating Boiler <300 MBH input (≥92% AFUE)	\$2.00	Input MBH		
CA-N2	Space Heating Boiler <300 MBH input (≥95% AFUE)	\$5.00	Input MBH		
CA-N3	Space Heating Boiler 300-2500 MBH input (≥88% Thermal Eff.)	\$1.50	Input MBH		
CA-N4	Space Heating Boiler 300-2500 MBH input (≥90% Thermal Eff.)	\$2.00	Input MBH		
CA-N5	Space Heating Boiler >2500 MBH input (≥88% Combustion Eff.)	\$1.50	Input MBH		
CA-N6	Space Heating Boiler >2500 MBH input (≥90% Combustion Eff.)	\$2.00	Input MBH		
CA-N7	Furnace	\$80.00	Furnace		
CA-N8	Exterior Door	\$10.00	Door		
CA-N9	Domestic Hot Water Heater ≤55 Gallons	\$85.00	Water Heater		
CA-N10	Domestic Hot Water Heater >55 Gallons	\$35.00	Water Heater		
CA-N11	Large High Efficiency Gas Water Heater	\$350.00	Water Heater		
CA-N12	Instant Domestic Hot Water Heater	\$150.00	Water Heater		
CA-N13	High Efficiency Indirect DHW Heater	\$2.25	Input MBH		

High Rise (4 stories or greater) - Common Area

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
CA-N14	Space Heating Boiler <300 MBH input (≥92% AFUE)	\$2.00	Input MBH		
CA-N15	Space Heating Boiler <300 MBH input (≥95% AFUE)	\$5.00	Input MBH		
CA-N16	Space Heating Boiler 300-2500 MBH input (≥88% Thermal Eff.)	\$1.50	Input MBH		
CA-N17	Space Heating Boiler 300-2500 MBH input (≥90% Thermal Eff.)	\$2.00	Input MBH		
CA-N18	Space Heating Boiler >2500 MBH input (≥88% Combustion Eff.)	\$1.50	Input MBH		
CA-N19	Space Heating Boiler >2500 MBH input (≥90% Combustion Eff.)	\$2.00	Input MBH		
CA-N20	Domestic Hot Water Heater ≤55 Gallons	\$85.00	Water Heater		
CA-N21	Domestic Hot Water Heater >55 Gallons	\$35.00	Water Heater		
CA-N22	Large High Efficiency Gas Water Heater	\$350.00	Water Heater		
CA-N23	Instant Domestic Hot Water Heater	\$150.00	Water Heater		
CA-N24	High Efficiency Indirect DHW Heater	\$2.25	Input MBH		

In-Unit (Low Rise or High Rise)

Ref #	Equipment Type	Incentive	Unit	# of Units	Total Incentive
IU-N1	Room Air Conditioners <8000 BTU	\$10.00	Unit		
IU-N2	Room Air Conditioners ≥8000 BTU	\$10.00	Unit		
IU-N3	Low Flow Showerhead	\$3.00	Unit		
IU-N4	Low Flow Bathroom Aerator	\$1.00	Unit		
IU-N5	Low Flow Kitchen Aerator	\$1.00	Unit		
IU-N6	Furnace	\$150.00	Furnace		
IU-N7	Heat Pump Domestic Water Heater	\$500.00	Heater		
IU-N8	Packaged Terminal Heat Pump	\$50.00	Ton		
IU-N9	Air Source Heat Pump (Mini-Split)	\$30.00	Ton		

Incentive Subtotal	
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Custom Incentive Worksheet

Custom Worksheet Instructions

Reservation Application must be submitted BEFORE project begins

IMPORTANT NOTE: All custom projects require pre-approval prior to the start of work or purchase of equipment.

Use this information to help you complete your Custom Incentive Worksheet. Total Awarded Incentives are calculated at no more than 50 percent of the respective Measure Costs for electric and gas items. All custom incentive applications must include your energy savings calculations and supporting documentation.

1. Please use a separate item box for each custom measure. Write the corresponding Reference Number for each item on all specification sheets and invoices related to that specific item and attach to your Final Application.
2. **Before Retrofit and After Retrofit:** Please be as specific as possible. Include quantity, product type/name, make/model, size, wattage, etc.
3. **Current Energy Cost** (\$ per unit), Enter your current average energy cost for the existing equipment.

$$\text{Your current Natural Gas Costs} = \frac{\text{Sum of 12 consecutive monthly utility bills for natural gas (\$)}}{\text{Sum of natural gas used during the same 12 consecutive months as above (Ccf) x 1 Mcf/10 Ccf}}$$

$$\text{Simple Payback Period} = \frac{\text{Aggregate Measure Cost}}{(\text{Annual kWh Saved x Electricity Cost}) + (\text{Annual Mcf Saved x Natural Gas Cost})}$$

4. Enter your **Annual Electric Savings** by kWh. **You must provide supporting calculations.**
5. Enter your **Annual Natural Gas Savings** by Mcf. **You must provide supporting calculations.**
6. Determine your **Calculated Incentive** for each measure by multiplying the **Annual Electric Savings** by \$0.08/kWh and the **Annual Natural Gas Savings** by \$8.00/Mcf.
7. Next, enter the **Measure Cost**. Only include costs associated with the rebated energy savings measure. Internal labor costs cannot be included. Also, do not include any costs incurred to achieve non-energy-related project benefits. Measure cost information:
 - a) **For end-of-life equipment replacement measures:** the cost difference between equipment meeting program efficiency criteria and equipment meeting the minimum efficiency allowable by code or industry standard
 - b) **For retrofit, early replacement and new technology measures:** the cost of new equipment, components and labor or materials replacing or added to existing equipment for the purpose of improving its energy efficiency.

Custom Incentive Worksheet

Reservation Application must be submitted BEFORE project begins

IMPORTANT NOTE: All custom projects require pre-approval prior to the start of work or purchase of equipment.

Please attach all equipment specifications to your Reservation Application before you submit for review. All custom projects must include detailed energy-savings calculations with new equipment model numbers.

Ref # CU-1 Location (department, area, etc.) _____

Description	
Before Retrofit	After Retrofit

Service	Unit	Current Energy Cost (\$ Per Unit)	Annual Savings (Units/Year) (A)	Incentive Rate (\$ Per Unit) (B)	Calculated Incentive (AxB)	Measure Cost	Simple Payback Period	Total Custom Incentive
Electric	kWh			\$0.08				
Natural Gas	Mcf			\$8.00				

Ref # CU-2 Location (department, area, etc.) _____

Description	
Before Retrofit	After Retrofit

Service	Unit	Current Energy Cost (\$ Per Unit)	Annual Savings (Units/Year) (A)	Incentive Rate (\$ Per Unit) (B)	Calculated Incentive (AxB)	Measure Cost	Simple Payback Period	Total Custom Incentive
Electric	kWh			\$0.08				
Natural Gas	Mcf			\$8.00				

Electric Simple Payback Period must be ≥ 1 to ≤ 8 years

$$= \frac{\text{Electric Measure Cost}}{\text{Annual kWh Saved} \times \text{Current Energy Cost}}$$

Gas Simple Payback Period must be ≥ 1

$$= \frac{\text{Gas Measure Cost}}{\text{Annual Mcf Saved} \times \text{Current Energy Cost}}$$

IMPORTANT:

The **Simple Payback Period** must fall within the electric or natural gas parameters to qualify for an incentive (see formulae above).

Total Awarded Incentives for each utility are capped at no more than 50 percent of the Total Measure Cost. If one utility does not qualify for an incentive, the other utility is capped at no more than 50 percent of the **Aggregate Measure Cost** for that utility.

If you require assistance completing this section, contact our office.

Total Custom Measure Cost	
Total Custom Incentives	

To Submit Your Reservation Application

1. Complete the Reservation Application.
 - A. Ensure that you have completed the Reservation Application checklist.
 - B. Ensure that you have completed the Customer Information, building information and incentive worksheets.
 - C. Ensure that you have completed the Contractor Information and, if applicable, the Third-Party Payment Authorization.
2. Complete all relevant worksheets for your project.
3. Submit your Reservation Application electronically at:

tradeally.efficiencynavigator.com (Trade Allies/Contractors)

customer.efficiencynavigator.com (Customers)

or

Email to:

DTEMultifamily@michiganefficiency.com

or

Print and mail to:

DTE Multifamily Program

8045 2nd Avenue
Detroit, MI 48202

* Prescriptive projects over \$1,000 and all custom projects require a Reservation Application prior to the start of any work.

To Submit Your Final Application

1. Review the Final Application requirements on page 8.
2. Review and complete all information on pages 9-11.
3. Complete all relevant incentive worksheets for your project, and attach required invoices and product specifications.
4. Submit your Final Application at:

tradeally.efficiencynavigator.com (Trade Allies/Contractors)

customer.efficiencynavigator.com (Customers)

or

Email to:

DTEMultifamily@michiganefficiency.com

or

Print and mail to:

DTE Multifamily Program

8045 2nd Avenue
Detroit, MI 48202

Mail or email all manufacturers' specifications, detailed invoices and other supporting documents to our office. In your mailing, on your cover sheet or in your subject line, please include the customer name and project number. If you don't have a project number, make sure you enter your customer name.

Prescriptive Measure Specifications

Lighting

Certain prescriptive measures require a Reservation Application. See the following measure details for more information. All Final Applications must include manufacturers' specification sheets for lamps and ballasts demonstrating compliance with the specifications listed below. All incentives are for one-for-one replacements except as noted. Note: These incentives are not available for lamps purchased at retail stores participating in the DTE Energy lamp discount program. The incentive for lamps purchased from those retailers is included in the discounted price.

For in-unit lighting applications:

Tally sheets are required for all applications requesting incentives for A-line, PAR/BR/R, Candelabra, Globe, and MR-16 measures. Tally sheets must include apartment unit numbers and quantity of each measure installed in each apartment unit.

LED replacing A-Line Lamp

Incentives are available for replacing incandescent/halogen or CFL lamps with LED A-Line lamps. Incentive is per lamp. Replacement lamps must have a minimum efficacy of 40 lumens per watt. Product must appear on the ENERGY STAR Certified Products List.

LED Flood PAR Lamp

Incentives are available to replace incandescent/halogen or CFL lamps with LED PAR lamps. Replacement lamps must have a minimum efficacy of 40 lumens per watt. Incentive is per lamp. Product must appear on the ENERGY STAR Certified Products List.

LED Candelabra Lamp with 24/7 operation

Incentives are available to replace incandescent/halogen or CFL lamps with LED candelabra lamps. Replacement lamps must be 20 watts or less and have a minimum efficacy of 40 lumens per watt. Incentive is per lamp. Product must appear on the ENERGY STAR Certified Products List.

LED Candelabra Lamp with non-24/7 operation

Incentives are available to replace incandescent/halogen or CFL lamps with LED candelabra lamps. Replacement lamps must be 20 watts or less and have a minimum efficacy of 40 lumens per watt. Incentive is per lamp. Product must appear on the ENERGY STAR Certified Products List.

LED Replacing CFL Fixture

Incentives are available for replacing CFL downlights with ENERGY STAR qualified LED fixtures. The replacements must be a complete luminaire unit and replace the reflector, lens, heat sink, driver, and light source. Screw in or pin-based retrofits are not applicable for this measure and may apply using the screw-in lamps measures.

LED Downlight

Incentives are available for replacing recessed incandescent/halogen fixtures with new LED fixtures. LED fixtures must be ENERGY STAR rated or on the DesignLights Consortium (DLC) Qualified Products List. Available only for interior hardwired LED fixtures. Only complete new fixtures or modular hardwired retrofits for interior applications qualify.

LED Globe

Incentives are available to replace incandescent/halogen or CFL lamps with LED globe lamps. Product must appear on the ENERGY STAR Certified Products List.

Exit Signs

Incentives are available for high-efficiency exit signs replacing or retrofitting an existing incandescent or CFL 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, lifetime of 15 years, 2.5 watts per face or 5 watts per sign.

Interior Occupancy Sensors

Incentives are available for occupancy sensors for intermittent occupancy interior areas, which automatically turn lights off when not occupied. The minimum amount of time for the lights to stay on when no movement is sensed (delay set time) must be 10 minutes. The sensors can be passive infrared (PIR) or ultrasonic. All sensors must be hardwired and control interior lighting fixtures. To assist in rebate processing, provide the inventory of the controlled fixtures with square footage served with the Final Application. Incentive is per sensor.

Stairwell Bi-Level Control

Incentives are available for interior stairwell lighting controls in which stepped dimming occupancy controls consist of a lighting system that operates at full power and full light output when the space is occupied, then at a reduced power level and reduced light output when non-occupied. In order to qualify for this incentive, the occupancy sensor must be installed in an interior stairwell or passageway application requiring continuous (24 hours a day) by code. The occupancy sensor must be hard-wired, it can be passive infrared (PIR) or a microwave occupancy sensor and the sensor must reduce the fixture output to use no more than 50 percent of full power.

This incentive may not be combined with the interior occupancy sensor measure. Fixtures that are retrofitted from fluorescent to LED are eligible to claim the Linear LED incentives in addition to the Stairwell Bi-Level Lighting Control incentive. There must be no previously existing automated lighting control in the area for which incentives are being applied.

Interior Linear LED

Incentives are available for Linear LED tubes and fixtures replacing existing fluorescent tubes in fixtures or replacing the whole fixture. The LED tubes or fixtures must have a minimum efficacy of 50 lumens per watt (lm/W). Incentive is per watt reduced. LED fixtures must be on the DesignLights Consortium (DLC) Qualified Products List as a fixture or retrofit product. Wattage differences resulting from a reduction in the quantity of lamps within a fixture (de-lamping) is eligible for inclusion in the incentive calculation. Wattage differences resulting from a reduction in the quantity of fixtures is not eligible for the prescriptive incentive, and must use the custom incentive category.

Exterior or Garage HID to LED Lighting Retrofit

Incentives are available for replacing existing HID fixtures with LED. Existing fixtures must operate less than 8,760 hours per year. Fixture replacement must result in at least a 40 percent power reduction. LED fixtures must have a minimum efficacy of 35 lumens/watt. Incentive is per watt reduced. LED fixtures must be on the DesignLights Consortium (DLC) Qualified Products List as a fixture or retrofit product.

Interior HID to Mogul Base LED

Requirements:

Must be DesignLights Consortium listed in one of the following primary use categories:

- Replacement lamps for High Bay Luminaires (UL Type B or Type C)
- Replacement Lamps for Low Bay Luminaires (UL Type B or Type C)

Replacement lamps must be installed in high or low bay luminaires only.

UL Type B Products – By signing this application, the customer agrees that necessary steps have been taken to ensure product, luminaire and maintenance safety

Exterior HID to Mogul Base LED

Requirements:

Must be DesignLights Consortium listed in one of the following primary use categories:

- Replacement lamps for Outdoor Pole/Arm Mounted Area and Roadway Luminaires (UL Type B or C)
- Replacement lamps for Outdoor Pole/Arm Mounted Decorative Luminaires (UL Type B or C)
- Replacement lamps for Outdoor Full-Cutoff Wall Mounted Luminaires (UL Type B or C)
- Replacement lamps for Parking Garage Luminaires (UL Type B or C)

Replacement lamps must be installed in the luminaire they are DLC listed under.

UL Type B Products – By signing this application, the customer agrees that necessary steps have been taken to ensure product, luminaire and maintenance safety

All Final Applications MUST include manufacturers' equipment specification sheets.

Default Wattage Tables

Fluorescent Fixture Description	Fluorescent Fixture Wattage			
	1 Lamp	2 Lamps	3 Lamps	4 Lamps
2-Foot F17 T8	20	33	48	63
4-Foot F32 T8	31	58	85	112
8-Foot F59 T8	58	112	-	-
U-Bend F32 T8	29	55	-	-
4-Foot F34 T12	-	74	117	143
4-Foot F40 T12	43	85	130	170
U-Bend F40 T12	43	72	-	-
8-Foot F96 T12	-	132	-	264

Default Wattages for T8 and T12 Fluorescent Fixtures

HID Fixture Description	HID Fixture Wattage
75W HID	93
100W HID	128
150W HID	183
175W HID	210
250W HID	290
400W HID	455
1000W HID	1080

Default Wattages for Metal Halide and High-Pressure Sodium Fixtures

If you have a lighting project:

Contact us if you have questions about how to calculate your "Before" and "After" retrofit operating hours or savings.

HVAC Electric

Unitary and Split Air Conditioning Systems

Incentives are available to install replacement air conditioning systems that meet or exceed qualifying cooling efficiency. Unitary and split systems are both eligible for this incentive. Water-cooled systems, evaporative coolers and water source heat pumps are not eligible for this incentive, but may be eligible for a custom incentive. Split system efficiency must be for air handling and condensing unit combined. Incentive is per ton of refrigeration.

Cooling Capacity (BTU/hr)	Size category (Tons)	Minimum requirements		
		EER	IEER	SEER
<65,000	<5.4	N/A	N/A	15
≥65,000 and <135,000	≥5.4 and <11.25	12	13.8	N/A
≥135,000 and <240,000	≥11.25 and <20	12	13	N/A
≥240,000 and <760,000	≥20 and <63.3	10.6	12.1	N/A
≥760,000	≥63.3	10.2	11.4	N/A

Room Air Conditioning Systems

Incentives are available to install replacement air conditioning systems that meet or exceed ENERGY STAR requirements. Incentives are available to install units that are through the wall (or built in). These units are without reverse cycle (i.e., heating). Incentive is per unit.

Packaged Terminal Heat Pump Units

Incentives are available to install replacement packaged terminal air conditioners and heat pumps that meet or exceed the listed efficiencies. The new heat pumps must be air-cooled, through-the-wall, and self-contained. Incentive is per ton of cooling capacity.

Cooling Capacity (BTU/hr)	Minimum requirements (EER)
<7,000	13.1
≥7,000 and <15,000	11.8
≥15,000	10.5

Packaged Terminal Air Conditioner (PTAC)

Incentives are available to install replacement packaged terminal air conditioners that meet or exceed the listed efficiencies. Incentive is per ton of cooling capacity.

Cooling Capacity (BTU/hr)	Minimum requirements (EER)
<7,000	13.1
≥7,000 and <15,000	11.8
≥15,000	10.5

Air Source Heat Pump (Mini-Split)

Incentives are available to install replacement air source heat pumps with a minimum SEER rating of 15. Incentive is per ton of cooling capacity. The new air source heat pump must replace an existing air source heat pump system with a SEER rating less than 15. Ductless mini-split systems qualify for this incentive.

Programmable Thermostat (Air Conditioning)

Incentives are available for programmable thermostats that replace any non-programmable thermostat. Thermostats must be capable of maintaining two separate programs for weekdays and weekends and at least four temperature settings for each program. The incentive is per thermostat.

Chiller Tune-Up

An incentive is available for the tune-up of any air-cooled or water-cooled chiller, greater than 20 tons, used for either space or process cooling. The incentive is available once per 24-month period. Each individual chiller is considered one unit. Incentive is per ton of refrigeration.

Cooling service tune-ups must include all applicable maintenance items listed on the tune-up worksheet.

Hot Water

Indirect Domestic Hot Water System

Incentives are available for domestic hot water systems containing a new boiler and a separate storage tank. The boiler must have a thermal efficiency of 90 percent or greater for a high-efficiency system. Boiler must be 75 MBH or larger to qualify. For indirect hot water, the incentive is based on the MBH of the boiler associated with domestic hot water heating only. Incentive is based per input MBH.

High Efficiency Tankless Water Heater

Incentives are available for tankless water heaters replacing existing storage natural gas water heaters. Replacement unit must have a UEF of ≥0.87. Incentive is per heater.

High Efficiency Pool Heater

Incentives are available for replacement indoor pool heaters. Replacement heaters must have a thermal efficiency ≥84 percent and must be rated between 500 MBH and 2,000 MBH. The pool heater may not be used as a backup for solar water heating. Incentive is per input MBH.

Gas Storage Water Heater

Incentives are available for natural gas high efficiency storage tank water heaters that replace existing natural gas storage water heaters. Water heaters must be less than or equal to 55 gallons in size and less than or equal to 75 MBH in capacity. Water heaters must have a UEF ≥0.64. Incentive is per heater.

Combination Heating/DHW Boilers

Incentives are available for replacement of existing separate space heating boiler and domestic hot water system with a single boiler serving both uses. If the domestic hot water system includes a tank, the tank size must be <1 gallon per MBh. The equipment being replaced must not exceed 82% AFUE. New units must include a new boiler that is being used for space and domestic hot water heating. Applicant must submit boiler specifications with steady-state boiler input and output ratings. The efficiency ratings will be defined per AHRI certification. If rated input capacity ≥300MBh, thermal efficiency must be ≥95%. If rated input capacity <300MBh, AFUE must be ≥95%. This incentive applies towards the purchase of new or replacement energy efficient combination boilers. Used or rebuilt equipment is not eligible. Boilers purchased for backup or redundancy are not eligible.

Large High Efficiency Gas Water Heater

Incentives are available for replacing a gas-fired tank-style water heater with a gas-fired tank-style storage unit with a Thermal Efficiency (T.E.) ≥0.94 or Energy Factor (E.F.) ≥0.93. Water heaters must be less than or equal to 140 gallons in size and greater than 75 MBH in capacity.

Low Flow Fixtures

New aerators and showerheads must have a flow rate of 1.5 gpm or less. Existing aerators and showerheads must have a flow rate of 2.2 gpm or greater. Handheld showerheads are eligible for this incentive.

HVAC Gas

All Final Applications MUST include manufacturers' equipment specification sheets. 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 backup or redundant fuel, the custom Incentive Application must be used.

Boiler Water Reset Control

Incentives are available for temperature reset controls added to existing boilers operating with a constant supply temperature. A replacement boiler with boiler reset controls is not eligible. 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 available only for equipment used in space heating conditions. Incentive is per input MBH.

High Efficiency Gas Furnace

Incentives are available for replacement furnaces and unit heaters that have an AFUE of 95 percent 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 and input MBH. Submittal of the furnace AHRI certificate is preferred.

High Efficiency Space Heating Boilers

Incentives are available for new or 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. Incentive is per input MBH. Replacement and new construction boilers must have a minimum thermal efficiency of 92 percent. Submittal of boiler AHRI certificate is preferred.

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:
 - ID tag number, location and type of trap
 - If repair or replaced:
 - Orifice size
- Pre- and post-conditions (e.g., Functioning/Not Functioning, Leaking/Not Leaking)

Infrared Heaters

Incentives are available for infrared heaters with electronic ignition replacing unit heaters. Applicable heaters must have a greater than 80 percent thermal efficiency and set back at 10 degrees. Low-intensity heaters must use non-conditioned, outside air for combustion. Incentive is available for heaters used for building space heating. Incentive is per input MBH.

Programmable Thermostat (Gas Heat)

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

Vertical Packaged HVAC Units

Incentives are available for new or replacement vertical packaged HVAC units that utilize natural gas-fired heating and electric cooling. Eligible units must have a minimum EER of 11, and a minimum thermal efficiency of 90.

Miscellaneous Gas

Pipe Wrap – Steam Boiler

Incentives are available for insulation applied to existing bare steam boiler piping used for space heating. Insulation must have 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. Piping associated with new boiler systems is not eligible. Repair or replacement of existing insulation does not qualify. Incentive is per linear foot of insulation. Incentive is limited to a maximum of 500 linear feet per boiler unless pre-approved.

Pipe Wrap – Hot Water Boiler

Incentives are available for insulation applied to existing bare hot water boiler piping used for space heating. Insulation must have 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. Piping associated with new boiler systems is not eligible. Repair or replacement of existing insulation does not qualify. Incentive is per linear foot of insulation. Incentive is limited to a maximum of 500 linear feet per boiler unless pre-approved.

Pipe Wrap – Domestic Hot Water

Incentives are available for insulation applied to existing bare pipe for domestic hot water systems. Insulation must have a minimum thermal resistance of R-4. Pipe must be between ½ inch and 2½ inches nominal diameter. Piping associated with new domestic hot water systems is not eligible. Repair or replacement of existing insulation does not qualify. Hot water must be a minimum of 120 degrees Fahrenheit. Incentive is limited to a maximum of 500 linear feet per heater unless pre-approved.

ENERGY STAR Door

Incentives are available for the replacement of a standard entry door which separates a conditioned and unconditioned space with a door that is ENERGY STAR rated for northern climates.

ENERGY STAR Windows

Incentives are available for replacing existing windows with models that meet the minimum specification required for an ENERGY STAR qualified window in northern climates. The incentive is per square foot of window including the frame.

Airtight Can Light

Incentives are available for the replacement of a ceiling can light with a unit marketed as airtight for reduced air infiltration around the fixture. The can light must be in a ceiling which separates a conditioned and unconditioned space. Additional incentives could be available if new fixture qualifies for the LED downlight measure. The Final Application must include documentation of the location and square footage illuminated by the airtight fixtures.

Duct Insulation

Incentives are available for reducing air infiltration through existing HVAC ducting. To qualify, ducts must be sealed using mastic sealant, metal tape, or other approved duct sealing methods. Fabric-backed tape (such as duct-tape) does not qualify. Pre- and Post- inspection may be required. Incentive is per 1,000 square feet of conditioned space supplied by the ducts.

Roof Insulation

Attic insulation must be installed between conditioned (living area below ceiling) and unconditioned areas (attic). If there is more than 24 inches of attic clearance before the new insulation is installed, the final insulation must be at least R-38. Existing attic insulation must be no greater than R-14. If there is less than 24 inches of attic clearance before the new insulation is installed, the final insulation level must be at least R-19. Existing attic insulation for low ceilings must be no greater than R-11. The current insulation level will be determined and documented by the installer and/or Program energy advisor. All insulation must be new materials and have R-value stated on the packaging material. Garages and other non-living areas do not qualify. Attach an itemized and dated invoice from the contractor or retailer (include insulation manufacturer, type and square feet) along with your application form. The final insulation level will be determined and documented by the insulation installer. Square footage measurements will be verified by a Program energy advisor.

Wall Insulation

Wall insulation must be installed in a space that has DTE natural gas-fired space heating. Existing wall assembly must be R-7 or below to qualify. The final insulation levels should meet R-13 or higher and/or local code. Incentives will be paid on the total square footage of the wall insulation.

Furnace/Boiler Tune-Ups

Domestic Hot Water Boiler Tune-Up

Incentives are available for tune-ups to natural gas-fired boilers for domestic hot water. Boilers used primarily for pool/spa use, space heating or process load 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 199 MBH or greater input. Incentive is per boiler. The service provider must perform a combustion analysis after the tune-up is complete and attach the printout to the Final Application. The tune-up checklist must be filled out per boiler. Other forms that include all the required information are acceptable. A single unit with multiple burners or modules is considered one unit.

Furnace Tune-Up

Incentives are available for combustion burner tune-ups for indirect-fired units with an input of 40 MBH or greater. Contractor must complete a tune-up checklist for each unit serviced and submit with the application. Other forms that include the required information are acceptable. Incentives are available for gas-fired furnaces only, once per 24-month period.

Space Heating Boiler Tune-up

Incentives are available for tune-ups to natural gas-fired, space heating boilers. The incentive is available once per 24-month period. Boiler size must be 110 MBH or greater input. The service provider must perform a combustion analysis after the tune-up is complete and attach the printout 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-ups are capped at 300 per site. A Reservation Application is required for projects of 20 or more boiler tune-ups.

- Measure post-combustion efficiency using electronic flue gas analyzer
- Adjust combustion airflow and air intake as needed, reduce excessive stack temperatures
- Adjust burner and gas input, manual or motorized draft controls
- Clean burners, combustion chamber and heat exchanger surfaces
- Complete visual inspection of system piping and installation
- Include a copy of the combustion analyzer post-test
- Check safety controls
- Check adequacy of combustion air intake
- Check for proper venting
- Check draft control dampers
- Clean and inspect burner nozzles

Custom Measure Specifications

Electric and Gas

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

Service	Unit
Electric	kWh
Natural Gas	Mcf

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 measures. Prescriptive measures, or portions thereof, are only eligible for prescriptive incentives. Custom measures, or portions thereof, are only eligible for custom incentives. For custom measures or portions thereof, incentives are limited to 50 percent of the sum of all custom costs. The measure cost (MC) is the cost of implementing a measure less any costs incurred to achieve non-energy-related project benefits. Only costs associated with the incentivized 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 either:

- 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. External labor costs may also be included.
- For retrofit, early replacement or new technology measures: the cost of new equipment or components added to existing equipment for the purpose of improving energy-efficiency. External labor costs may also be included.

For example, when replacing an existing space heating boiler 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-intensity discharge (HID) 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.

All Final Applications MUST include manufacturers' equipment specification sheets.

Custom electric projects must have a simple payback period equal to or greater than one (1) year and less than or equal to eight (8) years to be eligible for an incentive. Custom natural gas projects must have a simple payback period equal to or greater than one (1) year to be eligible for an incentive. Project payback is equal to the ratio of the project MC divided by the annual energy 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 load-shifting/demand-limiting (and not kWh savings)
- Renewables
- Power quality improvements

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 the baseline with 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 determining custom project energy savings include detailed calculations, equipment or subsystem metering and/or a 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 operating 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.

For assistance, call
866.796.0512
or visit our website:
dteenergy.com/multifamily



DTE