



2014

Energy Efficiency Program for Business

**Cooling Systems  
Technical Training**



**Safety First**  
**Exits**  
**Restrooms**  
**Other site features**



## Safety First





## House Keeping Issues



**Please Silence  
Cell Phones  
and Pagers**



# 2014 Training Schedule

1Q **March 6:** **Energy Efficient Cooling Systems**

2Q **June 5:** **Michigan Energy Code for New  
Construction/Major Renovations  
(LEED)**

3Q **Sept. 4:** **EMS Systems**

4Q **Nov. 6:** **TBD**



## Agenda

- 8:30** - Welcome & Opening Remarks
- 8:35** - Technology Presentations
- 9:35** - **Break**
- 10:05** - Technology Presentations
- 11:05** - Energy Efficiency Program for Business Overview
- 11:25** - Closing Remarks
- 11:30** - **Networking**



# Technology Presentations



## Program purpose

To help **commercial and industrial contractors and customers\***:

- **Improve** energy efficiency.
- **Increase** energy efficiency awareness.
- **Reduce** energy consumption.
- **Reward** businesses for installing energy-saving measures.

*\*Residential and Multi-Family customers do not qualify for this Program*



## Program funding

- Michigan Public Act 295 (2008) implemented a statewide “Energy Optimization Surcharge” that is added to all rate payers’ bills each year to achieve these goals:
  - **Help customers save energy, manage costs.**
  - **Reduce generation, offset new capacity.**
- This “surcharge” is rebated through the program as *incentives* that:
  - **Target specific energy-saving equipment and technologies.**
  - **Encourage energy-efficiency building and systems design.**



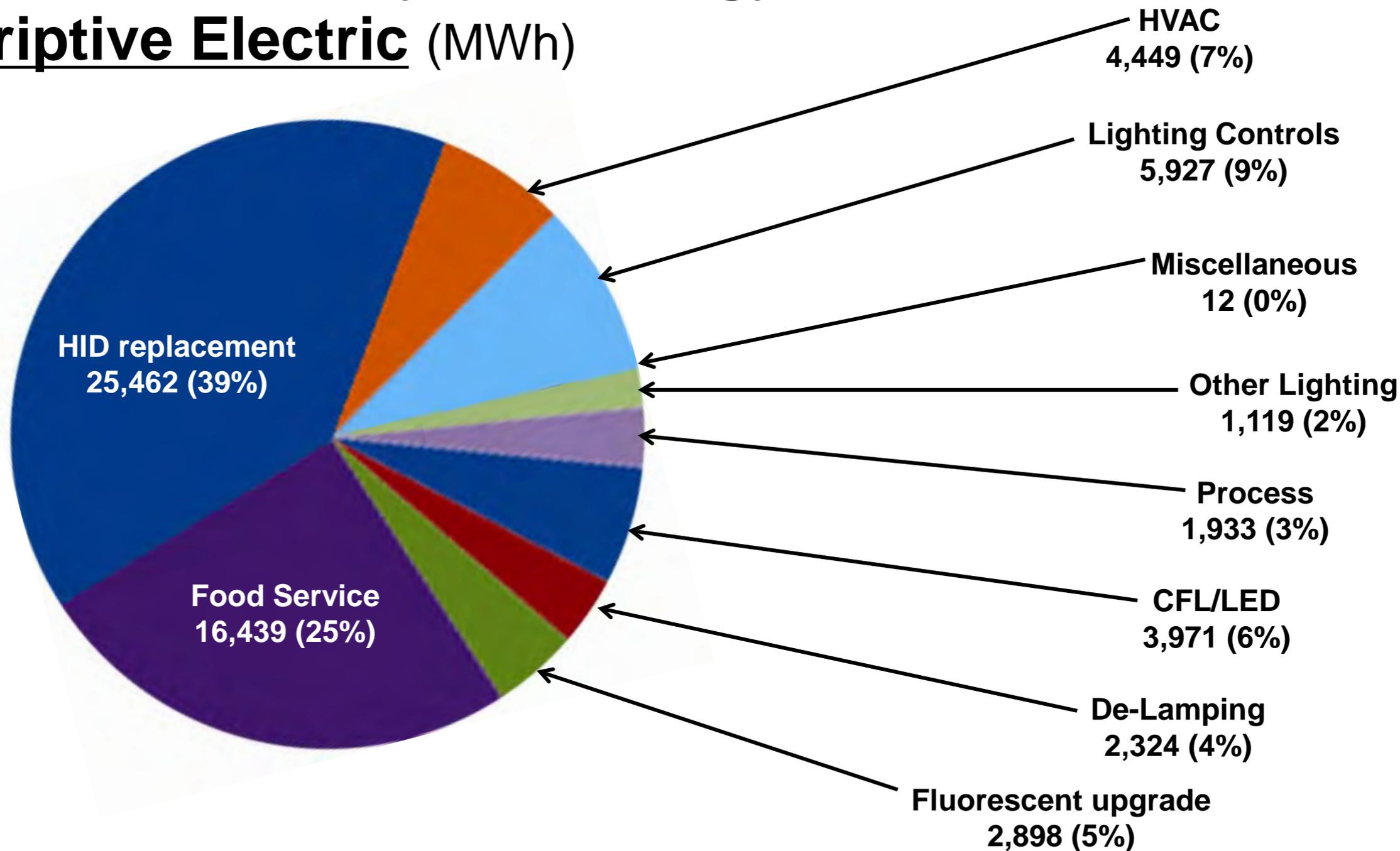
## Since 2009

- *More than **\$75 million** in cash rebates has been paid to Michigan businesses.*
  - **Electric: \$64 million**
  - **Gas: \$11 million**
- *More than **30,000 projects** have been completed.*
- *More than:*
  - **1,516 GWh**
  - **4 million Mcf and**
  - **\$147 million**

*...have been realized in energy savings.*



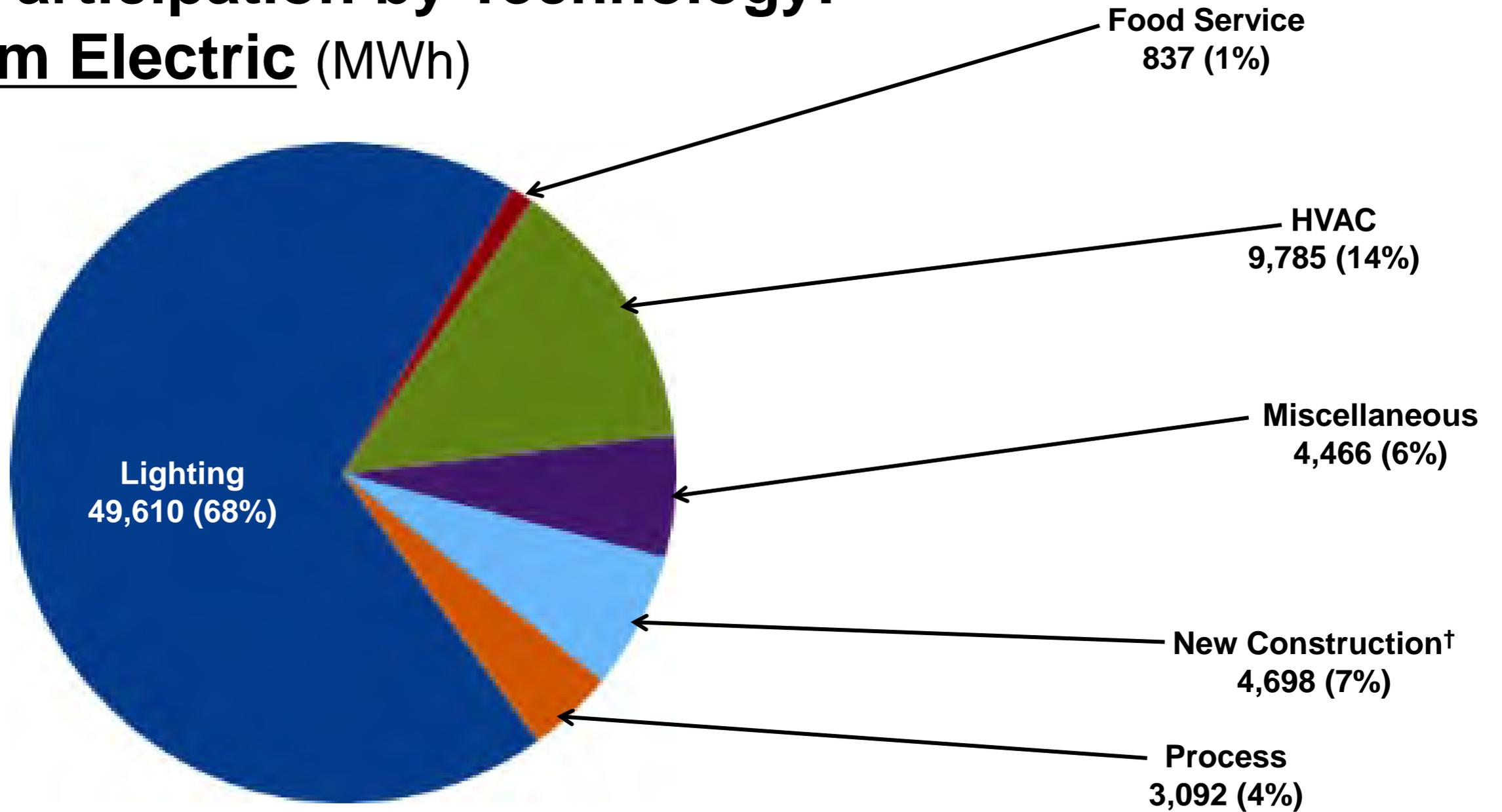
## 2013 Participation by Technology: Prescriptive Electric (MWh)



\*As of Dec. 31, 2013; does not include DI and Tstat



## 2013 Participation by Technology: Custom Electric (MWh)

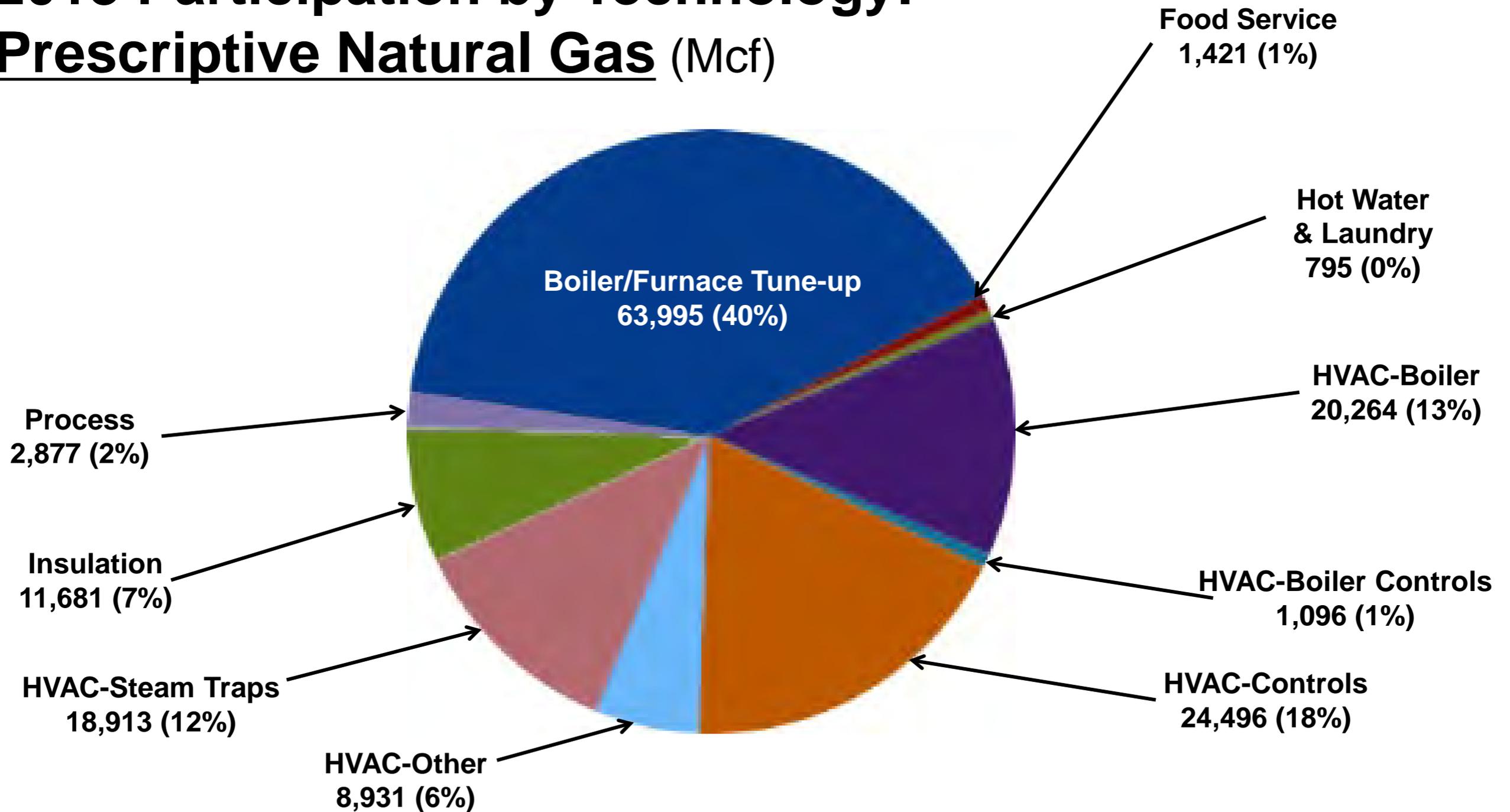


\*As of Dec. 31, 2013; does not include DI and Tstat

†Can include several technologies in the same project



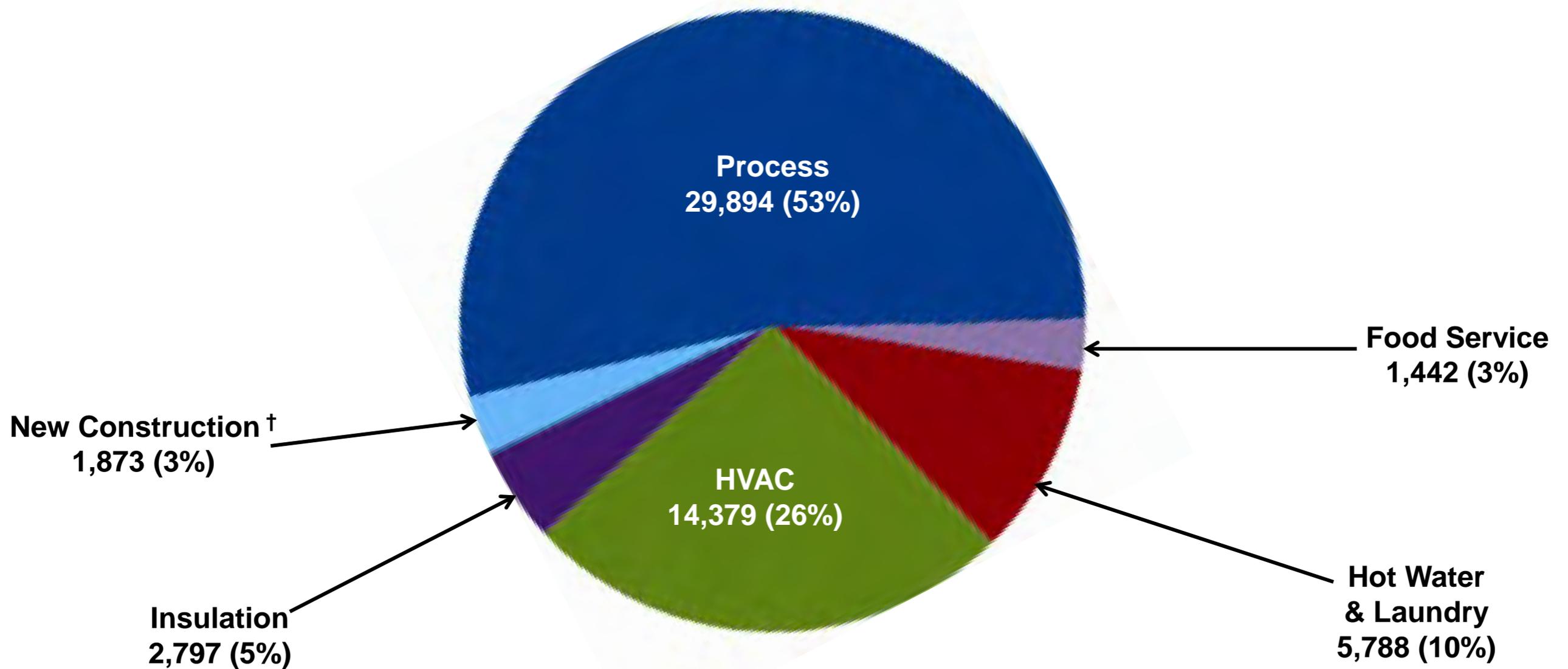
## 2013 Participation by Technology: Prescriptive Natural Gas (Mcf)



\*As of Dec. 31, 2013; does not include DI and Tstat



## 2013 Participation by Technology: Custom Natural Gas (Mcf)



\*As of Dec. 31, 2013; does not include DI and Tstat

†Can include several technologies in the same project



# About our Designated Trade Allies



## About our Designated Trade Allies

- **Designated Trade Allies** are businesses that are already familiar with our rebate program, the application process and incentive criteria.
- They include:
  - Contractors, suppliers, designers and consultants.
  - They are listed and searchable on DTE Energy's website database.





## How customers find TAs

- They click on: [dteenergy.com/saveenergy](https://www.dteenergy.com/saveenergy)
- Then they click on the link at left: **Find a Contractor**

The screenshot shows the DTE Energy website interface. The browser address bar displays the URL: [https://www2.dteenergy.com/wps/portal/dte/business/saveEnergy!ut/p/b1/Jc\\_LDolwEAXQL5IOPVXGEBWqA](https://www2.dteenergy.com/wps/portal/dte/business/saveEnergy!ut/p/b1/Jc_LDolwEAXQL5IOPVXGEBWqA). The page features the DTE Energy logo and navigation tabs for Residential, Business, and About Us. A main menu includes links for My Account, Billing/Payment, Save Energy, Start/Stop Service, Problems/Safety, Products/Programs, and Contact Us. A left-hand sidebar menu lists various services, with 'Find a Contractor' circled in red. A red arrow points from the text 'Find a Contractor' in the list to the circled link in the sidebar. The main content area includes a large banner for 'Energy Efficient lighting options for your business' and several smaller promotional tiles for incentives and Michigan manufacturer products. The footer contains social media icons, a 'COMODO SECURE' badge, and a list of links for Customer Support, DTE Energy Company, Subsidiaries, and Special Topics.



## How customers find TAs

- Then they click on **Energy Efficiency Directory** link

The screenshot shows the DTE Energy website's 'Find a Contractor' page. The browser address bar indicates the URL: [https://www2.dteenergy.com/wps/portal/dte/business/saveEnergy/details/Find a Contractor/lut/p](https://www2.dteenergy.com/wps/portal/dte/business/saveEnergy/details/Find+a+Contractor/lut/p). The page features a navigation menu with options like 'My Account', 'Billing/Payment', 'Save Energy', 'Start/Stop Service', 'Problems/Safety', 'Products/Programs', and 'Contact Us'. A sidebar on the left lists various services, including 'Find a Contractor'. The main content area is titled 'Search our Energy Efficiency Directory to find a reliable contractor' and contains a paragraph of text with the link 'Energy Efficiency Directory' circled in red. A red arrow points from the text 'Energy Efficiency Directory link' in the slide to this circled link. Below the main text, there is a section titled 'Ask the right questions before you hire' with a list of bullet points. The footer includes 'Customer Support', 'DTE Energy Company', 'Subsidiaries', 'Special Topics', and various social media icons.



## How customers find TAs

- They can search by their **Location** (city or ZIP)

or

- They can search by **Program Type**

The screenshot shows the DTE Energy Efficiency Directory website. The page title is "DTE Energy - Welcome to the Business DTE Energy Efficiency Directory". The URL is "https://www2.dteenergy.com/wps/portal/dte/business/saveEnergy/details/welcome to the busines". The page features a navigation menu with "Residential", "Business", and "About Us" tabs. Below the navigation menu, there are several tabs: "My Account", "Billing/Payment", "Save Energy", "Start/Stop Service", "Problems/Safety", "Products/Programs", and "Contact Us". The main content area is titled "Welcome to the DTE Energy Efficiency Directory" and contains the following text: "DTE Energy customers can use this tool to find qualified contractors who participate in our Commercial and Industrial energy efficiency rebate programs. Follow the instructions below to get started on your path to a more energy efficient business!". The instructions are: "Step 1: Enter your location below (City or Zip Code)", "Step 2: Select your project from the drop down list and hit 'Search' to find participating contractors.", and "Step 3: For rebate availability, call 866.796.0512.". Below the instructions, there is a search form with a text input field labeled "Enter a Location" and a dropdown menu labeled "Search by Program". The dropdown menu is open, showing a list of program types: "Electric & Gas Equipment", "Express Certified Contractors", "Food Service Equipment", "HVAC", "Insulation", "Lighting", "New Construction", "Water Heating", and "Other Services". A "Search" button is located below the dropdown menu. Red arrows point from the text "Location (city or ZIP)" to the "Enter a Location" input field and from "Program Type" to the "Search by Program" dropdown menu.



## Sources of funding:

- **Michigan Saves**
  - *michigansaves.org*
- **PACE** (Property Assessed Clean Energy - private)
  - *leanandgreenmi.com*
- **PACE** (Property Assessed Clean Energy - public)
  - *cec-mi.org/communities/programs/ann-arbor-pace*
- **DEGC** (Detroit Economic Growth Corporation)
  - *degc.org*

## Other funding:

- **Municipal bonds** (schools and government)
- **Energy Credits**



# About Incentives



## There are three types of projects

### Prescriptive

- **Predetermined** measures and incentives for the installation of various energy efficient improvements.
- Incentives typically average 20% to 50% of the incremental cost.

### Custom

- **Capital investment** projects that increase energy efficiency and are **NOT** eligible for a Prescriptive Incentive may qualify as a Custom Measure.
- Custom Incentives are determined on a case-by-case basis and are paid per unit energy saved (ex: \$0.08/kWh and/or \$4/Mcf).

### New Construction Major Renovation

- **New facilities/major renovations** of existing facilities or change of use projects.
- Adding load.



## About Reservations

Reservation Applications set aside funds for your project to ensure availability when your project is completed and you submit your Final Application. Here are our guidelines:

### Prescriptive

- Reservation Applications are not required for most Prescriptive projects, **BUT** they are **highly recommended**.
- A Reservation Application **is required** for certain measures: check the Application for details.

### Custom

- A Reservation Application **is required** for all Custom projects.

### New Construction Major Renovation

- A Reservation Application **is required** for all New Construction and Major Renovation projects (up to 18 months).

Do **NOT** start your project until you receive a **Reservation Letter!**\*



## For a customer to receive incentives

- Qualified measures must be installed at facilities served by DTE Energy.
- Projects must involve a **capital investment** that results in an improvement in energy efficiency of a system or building.
- The equipment installed must be new and meet the specifications spelled out in the Catalog.
- For each site, there must be at least one meter that is on an eligible rate schedule.
- The customer must be in good standing with DTE Energy and **not** be a Residential or Multifamily customer.



## These do not qualify for an incentive

- Customers who self-direct (and have opted out of the program)
- Load shifting/demand limiting projects.
- Renewable energy projects.
- Power quality improvements.
- Fuel switching projects.
- On-site electricity generation.
- Changes in operational and/or maintenance practices or simple control modifications that do **NOT** involve capital costs.



## Our Program timeline is simple:

**Reservation Application**

**Application Review** (may require pre-inspection)

**Reservation Letter issued** (Proceed with project)

**Install Measures**

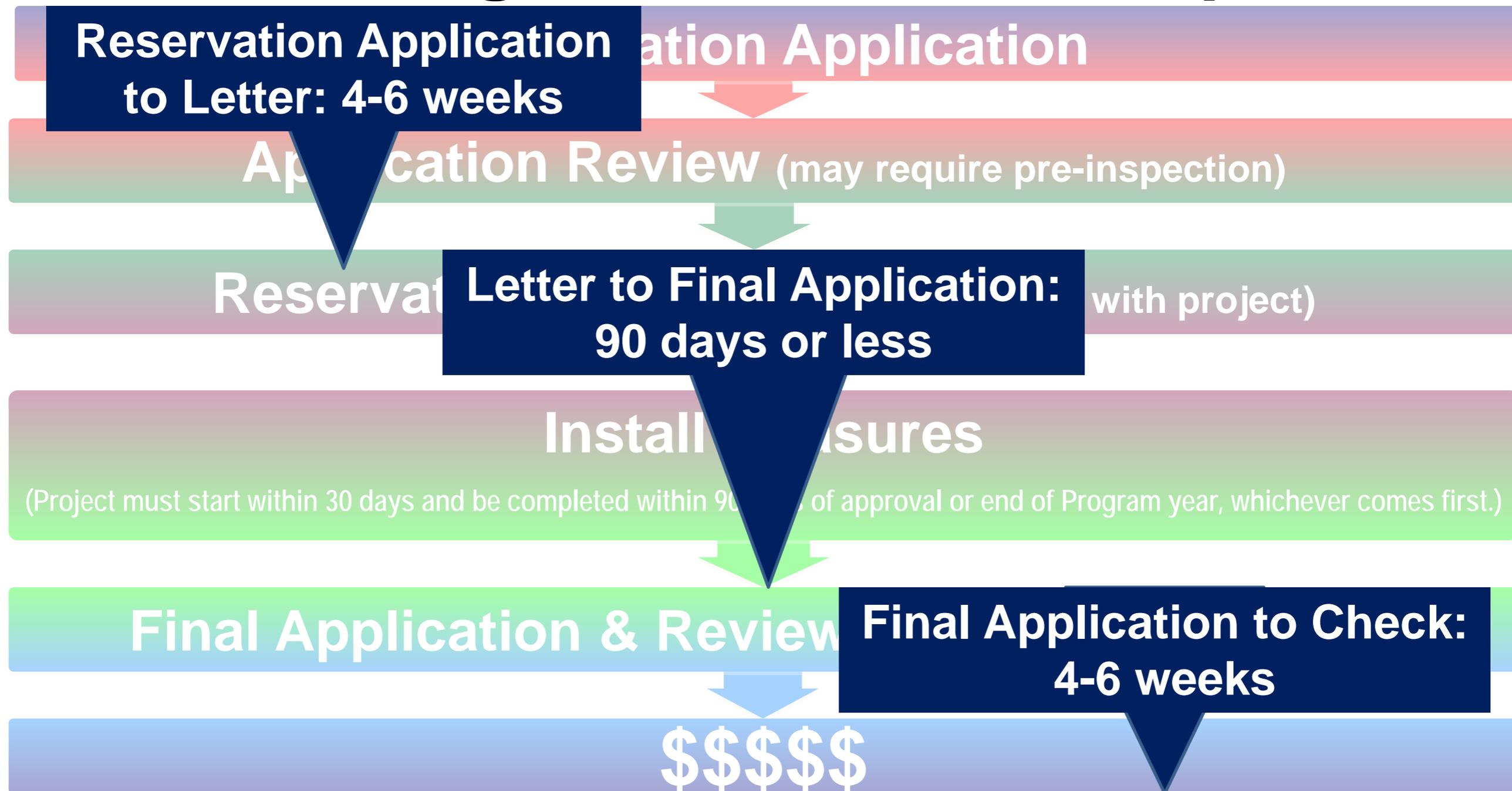
(Project must start within 30 days and be completed within 90 days of approval or end of Program year, whichever comes first.)

**Final Application & Review** (may require post-inspection)

**\$\$\$\$\$\$**



## Our Program timeline is simple:





## About your Final Application:

- Your **Final Application** must be submitted within 60 days of completion of your project – **and** include all supporting documentation.
- Failure to do so could result in delay of payment or cancellation of your Application.

Energy Efficiency Program for Business

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USE LESS.  
**SAVE  
MORE.**

### 2014 Program Application

This Application is to be used for projects completed with a Final Application submitted during the 2014 Program Year (Jan. 1, 2014 - Nov. 30, 2014).

Section 1 – Application	
Incentive Application Checklist.....	2
Customer Information.....	3
Contractor Information.....	4
Third Party Payment Authorization.....	4
Final Application Agreement.....	5
Incentive Summary, Final Agreement Information and Account Holder Signature Page.....	6
Section 2 – Incentive Worksheets	
Lighting Incentive Worksheet.....	7
HVAC Electric Incentive Worksheet.....	10
Miscellaneous Electric Incentive Worksheet.....	15
Process Electric Incentive Worksheet.....	16
Food Service – Electric and Refrigeration Incentive Worksheet.....	18
HVAC Gas Incentive Worksheet.....	20
Hot Water and Laundry Incentive Worksheet.....	21
Insulation Incentive Worksheet.....	22
Process Gas Incentive Worksheet.....	23
Boiler/Furnace Tune-up Incentive Worksheet.....	24
Food Service – Gas Incentive Worksheet.....	25
Custom Measures Worksheet Instructions.....	26
Custom Incentive Worksheet.....	27
How to Submit Your Application.....	30

For New Construction and Major Renovation projects, download our NC/MR Application at [dteenergy.com/saveenow](http://dteenergy.com/saveenow). If you have questions about other projects and the appropriate Application to submit, contact us at 866-796-0512 (press option 3) or email us at [saveenergy@dteenergy.com](mailto:saveenergy@dteenergy.com).



## Prescriptive



# Prescriptive

- **Pre-determined** measures with specific energy savings and cash rebates:



PRESCRIPTIVE MEASURE CATEGORIES			
ELECTRIC		GAS	
<b>Lighting</b> CFLs Controls Delamping Exit Signs Interior/Exterior Linear Fluorescent replacing HID High Performance (HP) Linear Fluorescents LED Lamps LED Refrigerated Door Case Lighting Low Wattage (LW) Linear Fluorescents Occupancy Sensors Pulse Start Metal Halide	<b>Miscellaneous Electric</b> High Efficiency Clothes Washer Intelligent Surge Protector PC Network Energy Management Controls	<b>HVAC</b> Boiler Modulating Burner Control Controls Demand Controlled Ventilation Destratification Fans High Efficiency Furnace Infrared Heaters Programmable Thermostat Setback/Setup Controls Space Heating Boilers Steam Traps	Roof Insulation (Flat/Attic) Truck Loading Dock Seals Truck Loading Dock Leveler Ramp Air Pit Seals Wall Insulation
<b>HVAC</b> Air-Cooled/Water-Cooled Chillers Air Source/Closed Loop/Ground Source Heat Pumps Chilled Water Reset Cool Roof Hotel Guestroom Energy Management System (AC) HVAC Occupancy Sensor for Large Office Building Packaged Terminal Air Conditioner & Heat Pump Programmable Thermostat (AC) Setback/Setup Controls (AC) Unitary and Split Air Conditioning Systems Variable Frequency Drive - HVAC Fan/Pump Window Film	<b>Process Electric</b> Barrel Wraps for Injection Molders & Extruders Compressed Air measures Electronically Commutated Plug Fans High Efficiency Process Pumps Industrial 3-Phase High Frequency Battery Charger Insulated Pellet Dryer Ducts Variable Frequency Drive for Process Pumping VSD Air Compressor	<b>Hot Water and Laundry</b> Domestic Hot Water Heating System Dry Cleaning Boiler Descale (Kettle/Tube-Type) Gas Water Heater High Efficiency Clothes Washer High Efficiency Pool Heater (Gas Heat) Ozone Laundry System	<b>Process Gas</b> Air Compressor Exhaust Heat Recovery Furnace Tube Inserts High Efficiency Process Boiler (Water/Steam) Tank Insulation
	<b>Food Service &amp; Refrigeration</b> Anti-Sweat Heater Controls Beverage Vending Machine Controllers Commercial Kitchen Ventilation Hood Door Gaskets on Coolers and Freezers Energy Efficient Ice Machines ENERGY STAR® Commercial equipment Evaporator Fan Motor Controls Floating Head Pressure Controls Strip Curtains on Walk-in Cooler and Freezer Doors Vertical Night Covers	<b>Insulation</b> Domestic Hot Water Pipe Wrap Greenhouse Heat Curtain Greenhouse Infrared Film Pipe Wrap – Steam and Hot Water Boiler Pool Covers	<b>Boiler/Furnace Tune-up</b> Boiler Tune Up Domestic Hot Water Boiler Tune-up Furnace/RTU Tune-up Process Boiler Tune-up
			<b>Food Service</b> Commercial Kitchen Ventilation Hood ENERGY STAR® Convection Ovens ENERGY STAR® Fryers ENERGY STAR® Griddles ENERGY STAR® Steam Cookers Large Vat Fryers Night Covers (vertical) Ovens Pre-Rinse Sprayers (Gas Water Heat)



## Custom



## Custom:

- Measures that do not fall within any specific prescriptive program.
- Energy savings and cash rebates are calculated on a case-by-case basis.
- Can be combined with prescriptive measures.





## New Construction Major Renovation



## New Construction/Major Renovation:

- New facilities/major renovations of existing facilities/change of use.
- Adding load.
- **Two types of Applications:**
  - **Whole Building Design Approach:**
    - Based on three tiers of efficiency
    - Requires energy modeling.
  - **System Approach:**
    - Pre-determined to optimize energy systems.





## New Construction Major Renovation



### Projects are eligible if they include:

- **New building projects** wherein no structure or site footprint presently exists:
  - Brand new building or addition to an existing building.
- Major tenant improvements that **change the use** of the space.
- Major tenant improvements that **add new load**.



**New Construction  
Major Renovation**

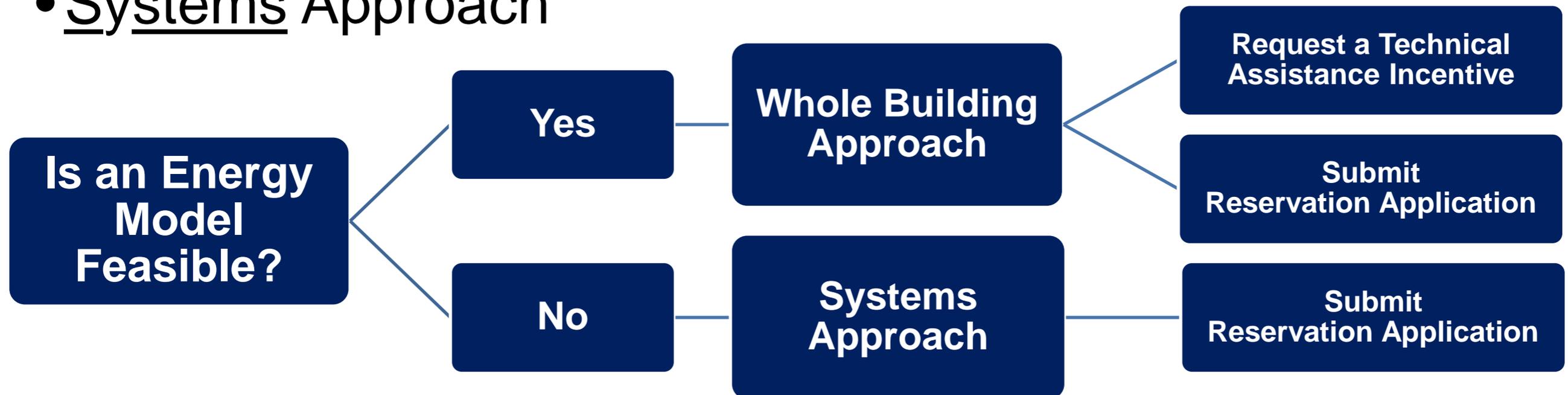


## Choosing an Approach:

- Whole Building Design Approach

vs.

- Systems Approach





## About **Cooling System Opportunities**



## Savings possibilities

<u>Cooling Measures</u>	<u>Savings*</u>	<u>Source</u>
VFDs – supply fans/secondary CW pumps	up to 70%	PNNL
Programmable Tstat/Setback-Setup	15%-35%	U.S. DOE
Water-cooled chillers	10%-35%	U.S. DOE
Economizer with DCV	10%-26%	PNNL
Cool Roof	10%-15%	U.S. DOE
Packaged/Split AC	8%-12%	EPA
Chilled Water Reset Controls	5%-15%	ASHRAE
Geothermal heat pumps	25%-50%	U.S. DOE

*\*Peak cooling demand savings*



# Getting Started in 2014



## About Program funding

The screenshot shows the DTE Energy website interface. On the left is a navigation menu with categories like 'Incentives and Offers', 'Small Businesses', and 'Energy Tips'. The main content area is titled 'How To Participate' and includes sections for 'Prescriptive and Custom Incentives' and 'New Construction and Major Renovation Program'. On the right side of the page, there are two '2013 Rebate Program Status' gauges. The top gauge is for 'Electric Installations' and the bottom is for 'Gas Installations'. Both gauges show 'Paid' at 100% and 'Active' at 100%. A red arrow points from the 'Electric Installations' gauge to a larger, more detailed version of the gauge on the right.



These funding gauges provide real-time information on the Program's progress throughout the year.

This is especially important as the Program Year winds down and funding becomes limited.

# 2014 Program Catalog & Application



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**SAVE  
MORE.**

## To find the gauges – and download an electronic Catalog and Application

1) visit: [dteenergy.com/savenow](http://dteenergy.com/savenow)

Then select:

2) [“Participate Now”](#)

The screenshot shows the DTE Energy website interface. At the top left is the DTE Energy logo. To the right are links for 'Register' and 'Sign In'. Below these is a search bar with the text 'Powered by Google' and a 'Search' button. A navigation menu includes 'Residential', 'Business', and 'About Us'. Below this is a secondary menu with 'My Account', 'Billing/Payment', 'Save Energy', 'Start/Stop Service', 'Problems/Safety', 'Products/Programs', and 'Contact Us'. A large banner features a woman pointing at a modern building with the text 'Energy Efficient lighting options for your business.' and the 'USE LESS. SAVE MORE.' slogan. Below the banner are three promotional tiles: 'Multi-Measure Incentive', 'New incentives for 2014' (circled in red), and 'Incentives for using Michigan Manufacturer products'. A red arrow points from the 'Participate Now' link in the text above to the 'Participate Now' button in the 'New incentives for 2014' tile.

*\*Requires Acrobat Reader*

# 2014 Program Catalog & Application



**DTE Energy**  
Know Your Own Power™

USE LESS.  
**SAVE MORE.**

## To find the gauges – and download an electronic Catalog and Application

1) visit: [dteenergy.com/savenow](http://dteenergy.com/savenow)

Then select:

2) “Participate Now”

3) Select and download:

- 2014 Catalog\*
- 2014 Application

4) The New Construction Application is below

**DTE Energy**

Register | Sign In

Powered by Google Search

Print Page | Help Center

Residential Business About Us

My Account Billing/Payment **Save Energy** Start/Stop Service Problems/Safety Products/Programs Contact Us

**Incentives and Offers**

- Multifamily Program
- Free Thermostat
- Express Program
- Incentives
- ENERGY STAR Lighting
- Michigan Made
- Light Measure
- Building Operator Cert
- Small Businesses
- Energy Tips
- Business Energy Analyzer
- EO Credits
- Energy Efficiency Events
- Lighting Advisor
- Find a Contractor
- Become a Contractor
- Case Studies-Fact Sheets
- Financing
- Self Directed Options
- Interactive Business

**How To Participate**

**Prescriptive and Custom Incentives:**

1. Verify your eligibility. See the Energy Efficiency Program for Business [Policies and Procedures Manual\\*](#)
2. Submit a Reservation Application to reserve funding. (This is required for all custom and De-lamping measures and highly recommended for the rest of the Prescriptive measures.)
  - Review the guidelines (slide show) for completing the Energy Efficiency Program for Business application
    - Download the [2014 Catalog](#)
    - Download the [2014 Application](#)
3. Install your equipment or systems within 90 days of reservation confirmation.
4. Submit the required documentation of project completion, costs and energy savings within 60 days of project completion.
5. Submit your Final Application. Final Applications must be received within 60 days after project completion or by November 30 of each program year, whichever comes first.
6. DTE Energy's Energy Efficiency Program for Business Staff will review your final project documentation. Incentive payments will typically be sent within 4 to 6 weeks from the time that all the documentation is received and the field inspection is complete.

**New Construction and Major Renovation Program:**

1. To determine if your project qualifies, please contact DTE Energy's Energy Efficiency Program for Business Staff before you start your design at 866.796.0512.
2. Download the [New Construction Application\\*](#) for details on the program and application forms.
3. Full details of the program can be found in the [New Construction Policies and Procedures Manual\\*](#).

Questions? Please contact us:

Contact the Energy Efficiency Program for Business at 866.796.0512.

**USE LESS. SAVE MORE.**

**2013 Rebate Program Status**

Paid 100% Active 100%

**Electric Installations**

Available funds paid as of December 20, 2013

**2013 Rebate Program Status**

Paid 100% Active 100%

**Gas Installations**

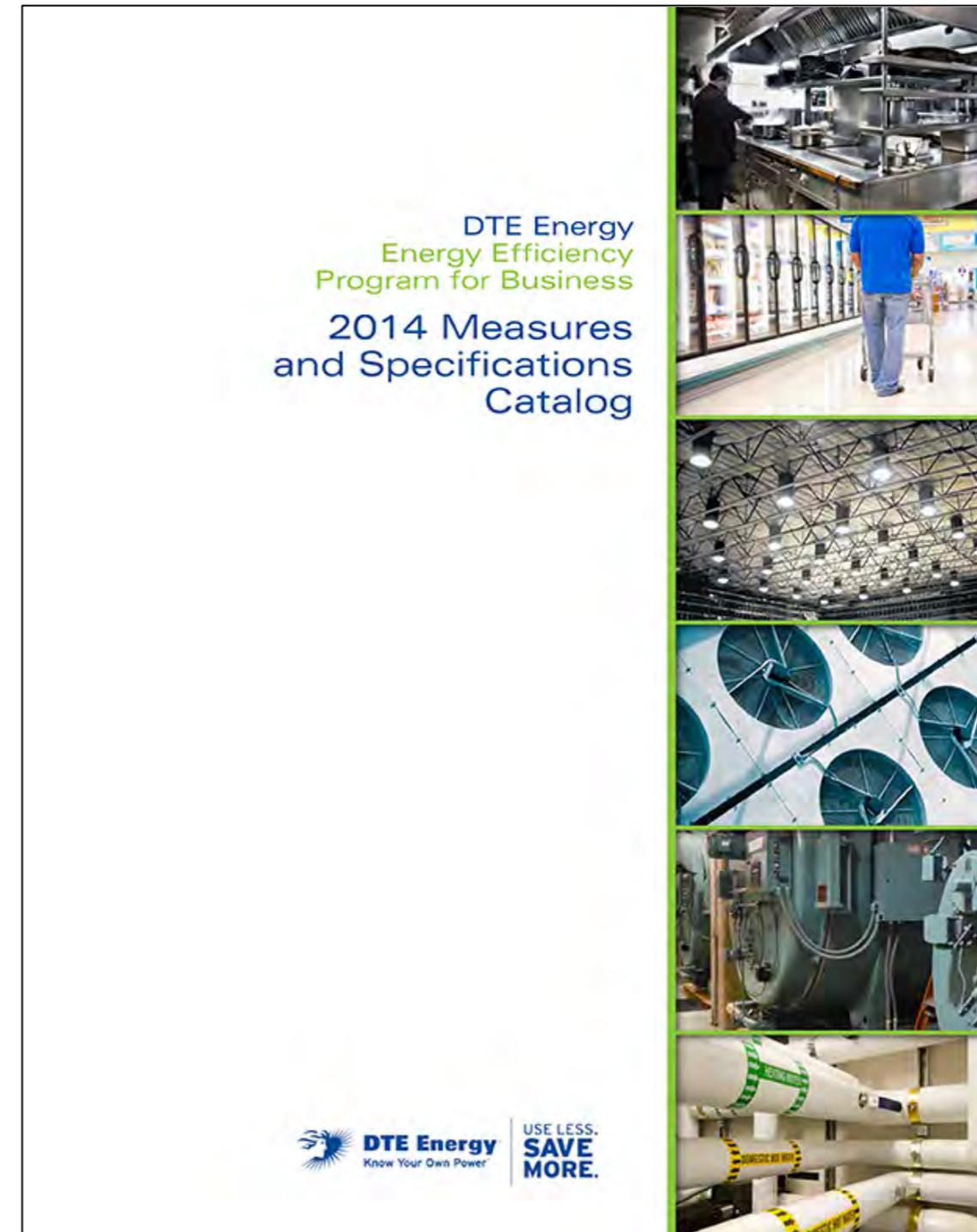
Available funds paid as of

\*Contact us for a print copy



## About our Catalog

- It includes specifications and details for every **Prescriptive** incentive measure.
- It includes specifications and details on how to submit a **Custom** project.
- Use it as a desktop reference for all your projects.





## There are five electric categories of measures in the Catalog:

- Lighting
- Miscellaneous
- Process
- Food Service/Refrigeration
- HVAC

## There are 64 measure areas

- Each area lists specific types of measures within that section

*The Application matches the Measure sequence of the Catalog*

List of Eligible Prescriptive Electric Measures	
<b>Lighting</b>	
Central Lighting Controls	11
Compact Fluorescent Screw-In Lamps (CFL)	7
(CFL) Reflector Flood Lamps	7
Compact Fluorescent Fixtures	7
Daylight Sensor Controls	11
Delamping	12
Exit Signs Retrofit	11
Exterior Lighting Bi-level Control w/Override	11
Exterior Linear Fluorescent replacing HID	10
Exterior CFL replacing HID	10
Garage/Exterior High-Intensity Discharge (HID) Conversion	10
High Performance (HP) Linear Fluorescents	8
Interior High-Intensity Discharge (HID) to Fluorescent Fixture	10
LED Interior Linear	9
LED Lamps	7
LED or Induction Interior High Bay	10
LED Traffic Signals	11
LED Refrigerated Door Case Lighting	12
Low Wattage (LW) Linear Fluorescents	9
Occupancy Sensors for LED Refrigerated Door Case Lighting	12
Occupancy Sensor	11
Pulse Start Metal Halide	10
Switching Controls for Multilevel Lighting	11
Tubular Skylights (Light Tubes)	12
<b>HVAC Electric</b>	
Air-Cooled Chiller	16
Air Source Heat Pumps	13
Chilled Water Reset – Air Cooled	15
Chilled Water Reset – Water Cooled	15
Chilled Water Reset with Pump on/off Control	14
Closed Loop Heat Pumps	13
Cool Roof	15
Economizer	15
Ground Source Heat Pump	14
High Performance Glazing	15
Hotel Guestroom Energy Management System (Air Conditioning)	14
HVAC Occupancy Sensor, Large Office Building	14
Packaged Terminal Air Conditioner & Heat Pump	13
Programmable Thermostat (Air Conditioning)	14
Room Air Conditioners	13
Setback-Setup Controls (Air Conditioning)	14
Unitary and Split Air Conditioning Systems	13
Variable Frequency Drive – HVAC Fan/Pump	15
Water-Cooled Chiller	16
Window Film	15
<b>Miscellaneous Electric</b>	
High Efficiency Clothes Washer	18
Intelligent Surge Protector	18
PC Network Energy Management Controls	18
<b>Process Electric</b>	
Barrel Wraps for Injection Molders & Extruder	20
Compressed Air Pressure Flow Controller	19
Compressed Air Audit with Leak Repair	19
Compressed Air Cycling Dryer	19
Electrically Commutated Plug Fans	20
Engineered Nozzle	19
High Efficiency Pumps	19
Industrial 3 Phase HF Battery Chargers	20
Insulation for Pellet Dryer Ducts	20
Tank Insulation	20
VFD for Process Fans	19
VSD Air Compressor	19
<b>Food Service &amp; Refrigeration Electric</b>	
Anti-Sweat Heater Controls	21
Beverage Vending Machines	21
Commercial Kitchen Ventilation Hood	21
Door Gaskets on Coolers and Freezers	22
ECM Motor for Refrigerator Cases, Freezers and Coolers	22
Energy Efficient Ice Machines	22
Efficient Refrigeration Condenser	22
ENERGY STAR® Commercial Solid Door Refrigerators	21
ENERGY STAR® Commercial Solid Door Freezers	21
ENERGY STAR® Steam Cookers	21
ENERGY STAR® Holding Cabinets	21
Evaporator Fan Motor Controls	22
Floating Head Pressure Controls	21
LED Refrigerated Door Case Lighting	22
Occupancy Sensors for LED Refrigerated Door Case Lighting	22
Refrigeration Savings due to Lighting Wattage Reduction	22
Strip Curtains on Walk-in Cooler and Freezer Doors	22
Vertical Night Covers	22



## There are six natural gas categories of measures in the Catalog:

- HVAC
- Insulation
- Process
- Hot Water & Laundry
- Boiler/Furnace Tune-up
- Food Service

## There are 44 measure areas

- Each area lists specific types of measures within that section

*The Application matches the measure sequence of the Catalog*

### List of Eligible Prescriptive Gas Measures

<b>HVAC Gas</b>		<b>Insulation</b>	
Boiler Modulating Burner Control	24	Domestic Hot Water Pipe Wrap	27
Boiler Water Reset Control	24	Greenhouse Heat Curtain	27
Chilled Water Reset	24	Greenhouse Infrared Film	27
Chilled Water Reset with Pump on/off Control	25	Pipe Wrap – Steam and Hot Water Boiler	27
Demand Controlled Ventilation	25	Pool Covers	27
De-stratification Fans	25	Roof Insulation (Flat/Attic)	27
High Efficiency Furnace	24	Truck Loading Dock Seals	27
Hotel Guestroom Energy Management Control	25	Truck Loading Dock Leveler Ramp Air Pit Seals	27
HVAC Occupancy Sensor, Large Office Building	25	Wall Insulation	27
Infrared Heaters	24		
Programmable Thermostat	25	<b>Process Gas</b>	
Setback-Setup Controls	25	Air Compressor Exhaust Heat Recovery	28
Space Heating Boilers	24	Furnace Tube Inserts	28
Steam Traps	24	High Efficiency Process Boiler (Water/Steam)	28
Variable Frequency Drive on Secondary Chilled Water Pump	24	Tank Insulation	28
<b>Hot Water and Laundry</b>		<b>Boiler/Furnace Tune-Up</b>	
Domestic Hot Water Heating System	26	Boiler Tune Up	29
Dry Cleaning Boiler Descaling (Kettle/Tube-Type)	26	Domestic Hot Water Boiler Tune-Up	29
Gas Storage Water Heater	26	Process Boiler Tune-up	29
Gas Water Heater – Tankless	26	Furnace/RTU Tune-up	29
High Efficiency Clothes Washer	26		
High Efficiency Pool Heater (Gas Heat)	26	<b>Food Service Gas</b>	
Ozone Laundry System	26	Commercial Kitchen Ventilation Hood	30
		ENERGY STAR® Convection Ovens	30
		ENERGY STAR® Fryers	30
		ENERGY STAR® Griddles	30
		ENERGY STAR® Steam Cookers	30
		Fryers	30
		Night Covers (vertical)	30
		Ovens	30
		Pre-Rinse Sprayers (Gas Water Heat)	30



**Food Service Electric & Refrigeration Specifications**

All Final Applications MUST include manufacturers' equipment specification sheets

**ENERGY STAR® Refrigerators and Freezers:**

Equipment Type	Capacity	Unit
Commercial Solid Door Refrigerator	< 15 cu. ft.	Refrigerator
	15-20 cu. ft.	Refrigerator
	21-30 cu. ft.	Refrigerator
Commercial Solid Door Freezer	< 15 cu. ft.	Freezer
	15-20 cu. ft.	Freezer
	21-30 cu. ft.	Freezer

**ENERGY STAR® Commercial Solid Door Refrigerator:**  
Incentives are available for replacement units that are ENERGY STAR® listed. Cases with remote refrigeration systems are not eligible. Incentive is per refrigerator.

**ENERGY STAR® Commercial Solid Door Freezer:**  
Incentives are available for replacement units that are ENERGY STAR® listed. Cases with remote refrigeration systems are not eligible. Incentive is per freezer.

**ENERGY STAR® Steam Cookers and Hot Holding Cabinets:**

Equipment Type	Capacity	Unit
Steam Cookers	3 Pan	Cooker
	4 Pan	Cooker
	5 Pan	Cooker
Hot Holding Cabinets	Half Size	Cabinet
	Three Quarter Size	Cabinet
	Full Size	Cabinet

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

**ENERGY STAR® Hot Holding Cabinets:**  
Incentives are available for replacement units that are ENERGY STAR® listed and consume <40 watt per cubic foot. Cook-and-hold equipment is not eligible. Used or rebuilt equipment is not eligible. Incentive is per cabinet.

**Controls:**

Equipment Type	Unit
Beverage Vending Machine Controllers	Machine
Anti-Sweat Heater Controls	Door
Floating Head Pressure Controls	Ton
Commercial Kitchen Ventilation Hood with Demand Control	CTM

**Beverage Vending Machine Controllers:**  
Incentives are available for retrofitting existing vending machines with beverage vending machine controllers. The controller must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Incentive is per vending machine.

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

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

**Commercial Kitchen Ventilation (CKV) Hood with Demand Control:**  
Incentives are available to install commercial kitchen ventilation (CKV) hood control systems for fast food and full service restaurants. The control system must have both thermal and smoke (opacity) sensors. The ventilation controller must reduce the hood flow rate when the cooking equipment is using the hood. Incentive is per hood CTM.

**Food Service - Electric**

To download an interactive application, go to: [dteenergy.com/saveenow](http://dteenergy.com/saveenow)

Food Service - Electric

Refrigerator
Refrigerator
Refrigerator
Refrigerator

STAR® incentive

STAR® incentive

Unit
Cooker
Cooker
Cooker
Cooker

beverage vending machine controllers. The controller must include a passive infrared occupancy sensor to turn off fluorescent lights and other vending machine systems when the surrounding area is unoccupied for 15 minutes or longer. Incentive is per vending machine.

### Anti-Sweat Heater Controls

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

### Floating Head Pressure Controls

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

### Commercial Kitchen Ventilation (CKV) Hood with Demand Control

**Specifications are detailed for every prescriptive measure offered under the 2014 Program.**



## About our Application

Use it as a:

- **Reservation** Application
- and a
- **Final** Application

**NOTE:** Funds **must** be reserved for all custom projects and for certain prescriptive measures.

We **encourage** you to submit a Reservation Application for all **prescriptive** projects.

Energy Efficiency Program for Business

 **DTE Energy**<sup>®</sup>  
Know Your Own Power™

USE LESS.  
**SAVE  
MORE.**

### 2014 Program Application

This Application is to be used for projects completed with a Final Application submitted during the 2014 Program Year (Jan. 1, 2014 - Nov. 30, 2014).

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For New Construction and Major Renovation projects,  
download our NC/MR Application at [dteenergy.com/savenow](http://dteenergy.com/savenow)  
If you have questions about other projects and the appropriate  
Application to submit, contact us at 800-796-0512 (press option  
3) or email us at [saveenergy@dteenergy.com](mailto:saveenergy@dteenergy.com)



**Thank you for joining us today!**



And a thank you to our:

**Vendors • Presenters • Customers**



## A reminder:

1Q March 6: Energy Efficient Cooling Systems

2Q **June 5: Michigan Energy Code for New  
Construction/Major Renovations  
(LEED)**

3Q Sept. 4: EMS Systems

4Q Nov. 6: TBD

*... back here at UM-Dearborn*



**If you have questions or would like help  
completing the 2014 Application, contact our office**

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Phone: **866-796-0512** (press option 3)

Fax: **877-607-0744**

Website: [dteenergy.com/savenow](http://dteenergy.com/savenow)



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