



to our Building Management Systems Technical Training Oct. 16, 2014

ENERGY EFFICIENCY PROGRAM FOR BUSINESS



Safety First Exits Restrooms Other site features

AGENDA



- 8:35 > Industrial Manufacturing BMS Systems
 - Feras Karim: Leidos Engineering, LLC
 - Darren Roney: Leidos Engineering, LLC
- 9:30 > Break: Technology Displays and Networking
- 10:00 > Commercial BMS Systems
 - * Sandra Nelson: Johnson Controls
 - Tom Neidermann: Optimum Energy
- **10:55 ≻ DTE Energy Incentives**
 - Troy Simmon: Energy Efficiency Program for Business
- **11:25 ≻ Closing Remarks**
 - Paul Maximuk

Building Management Systems Technical Training



Paul Maximuk DTE Energy Partnership & Services

Building Management Systems Technical Training



Feras Karim Darren Roney Leidos Engineering, LLC

Industrial Building Management Systems

Presented By: Feras Karim – Leidos Engineering, LLC Darren Roney – Leidos Engineering, LLC



Real-Time Commissioning and Sustainment

- > Total plant about 64 million square feet
 - Assembly plants about 4 million square feet each
 - Other plants (powertrain, metal casting) about 2 million square feet each
- > Energy load variable by plant and season
 - > 15.5 million kWh in fan energy alone in February 2011
 - Heating energy of 65 million kBTUs for all plants for the same month, which is about 115.85 BTU per square foot

Action	Observed Savings
Installation of meters	0 to 2% (the "Hawthorne effect")
Bill allocation only	2-1/2 to 5% (improved awareness)
Building tune-up	5 to 15% (improved awareness, and improvement)
Continuous Commissioning	15 to 45% (improved awareness, identify simple O&M improvements, project accomplishments, and continuing management attention)

Source: Guidance for Electric Metering in Federal Buildings. DOE/EE-0312 February 3, 2006

- > Plant X (automotive assembly): 12-month savings of \$1.25 million
 - > HVAC equipment scheduling
 - Controlling area temperatures based on occupancy schedules
- Plant Y (engine assembly): 12-month savings of \$500,000
 - > HVAC temperature set point enforcement
 - Air supply balancing and building pressurization control
- Plant Z (automotive assembly): 12-month savings of \$1.15 million
 - Implementing HVAC economizer "free cooling" modes
 - > Equipment schedule tightening
 - > HVAC temperature setpoint reduction

kWh = kilowatt hours BTU = British thermal units kBTU = One thousand (1000) British thermal units HVAC = Heating, Ventilation and Air Conditioning O&M = Operation & Maintenance

What is a Building Management System

- > BMS Building Management System
- > EMS Energy Management System
- > EMCS Energy Management and Control System
- > EIS Energy Information System
- > Head End System

Maturity Model



BMS Components

- > Controls PLC, DDC, DCS
- > Data collectors (and gateways)
- > Utility meters, sub meters and Smart Grid
- > Infrastructure
- > Communications (multiple protocols)
- > Servers and application software
- > Database/historian
- > User HMI/visualization (Web)
- > Web-based software tools
- > Integration with other systems
- HMI = human-machine interface

Building Management System Architecture

> System Architecture

- > Enterprise BMS vs. Single Workstation
- > Topology (Ethernet, wireless, twisted pair)
- > Ability to export or share data with central repository



Technical Architecture and Data Flow



SCADA = supervisory control and data acquisition



Technical Architecture Simplified Layered Approach



Design Criteria

- > Open
- > Multi-vendor
- > Extensible
- > Future proof
- > Security
- > Reliable data and high system up-time
- > Make good use of existing infrastructure
- > Access to database by external third-party vendors

When It Comes to Budget, Do Not Confuse "Wants" With "Needs"

- > Determine the functional requirements
- > Plan for the future expansion
- > Do not over-specify requirements
- > Use existing infrastructure
- > Understand bandwidth, refresh rate and data logging frequency
- > Involve IT early (they are a stakeholder)
- > Output many features are never used

Use True Server Class Computers

PC under desk is NOT a server



Proper server installation



Traditional BMS

> Functionality

- > Building Layout (Overview)
- > Tabular
- > Equipment Details
- > Alarming

> Functionality

> Traditional BMS

- > Overview (Building Layout)
- > Tabular
- > Equipment Details
- > Alarming
- > Improved Navigation
 - > Tooltips
 - > Web Browser Enabled
- > Alarm Histories
- > Global Setpoints/Data





> Detail



> Tabular

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> Notification

Alarm Date/Time	Alarm Description	Value	Tag 1D	Briarity
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> Global Data



- > Advanced Features
 - > Trending
 - > Ad hoc
 - > Pre-configured
 - > Reporting
 - > Scheduling (Start/Stop, Multivariable)
 - > Utility Metering
 - Load Shedding (Monitor and know your Demand)
 - > Automated Demand Response
 - > Smart Grid

Advanced Features



Expanded Capabilities

- > Energy Analytics
 - > Energy Use Intensity
 - > Bill allocation
 - > Client Billing
 - > Energy Star Reports
 - > Forecasting

- > Sustaining your BMS for the Future
 - > Real-Time Commissioning
 - Energy Conservation
 Measure Tracking
 - Enterprise Energy
 Dashboards
 - > Predictive Analytics
 - Fault Detection & Diagnostics (FDD)

Energy Analytics



Must Have BMS Features

> Functionality

- > Trending (Ad hoc & Pre-configured)
- > Scheduling (Start/Stop, Multivariable)
- > Utility Metering
- > Ability to export or share data with central repository
- > Enterprise BMS Access
- > User Authentication (SSO) & Security
- > Automated Notification
- > Architecture
 - > Open Protocols
 - > Scalability and Integration

Maximize your BMS Benefits

- > Baseline Data
- > Operational Awareness
- > Maintenance Schedules
- > Drive ECM Validation
- > Utilize BMS and Metering Data for Energy Incentives
- > Demand Response
- > Smart Grid

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North Body Shop Ventilation Right-Sizing

Original JNAP N. Body Shop (Mid 1990s)



High Contaminate Welding Process

- 340,000 square feet
- 8 each 69,000 CFM AHUs

Since 2008: Warehouse (Pick and Pack)



North Body Shop Winter Mode Before Optimization



Data Mining

> Benchmark

> Temperature

Trends Trends Eliter States St

> Pressurization

> Analyze

> Verify





North Body Shop Winter Mode After Optimization



North Body Shop Econ/Cooling Mode Before Optimization



AHU/Coil Load Factor Analysis



Design: 69,000 CFM with a 17 degF Split

If we can simply vary fan speed in proportion with the load we can save significant fan power... The most load seen by these coils is 45-55% max or 8-9 degF



North Body Shop Econ/Cooling Mode Before Optimization




Presenter Contact Information

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Sandra Nelson Johnson Controls Tom Neidermann Optimum Energy

DTE PRESENTATION





Optimization is our industry's next evolutionary step





Global mega trends guide the strategic direction of our technology, product, and offering development efforts.





Traditional means will not suffice.



"...we are reaching maximum technological limits at a component level and that in the future the industry will have to look at the full HVAC system for further improvements. AHRI is in the process of forming a new working group to address systems approaches for efficiency improvements and will work closely with Standard 90.1."

- Dick Lord, co-writer of addendum 'ch' to ANSI/ASHRAE/IES Standard 90.1-2010



Industry is aligning to technology trends





Word on the Street

Owner / VP Facilities

- Minimize operational expenses
- Keep my employees productive

Facility Director



- Be green about consumption
- Make operators more efficient

Facility Operator



- Close work orders quickly
- Restore order (e.g. fix leak ASAP)
- Optimize occupant comfort
- Maintain system reliability/uptime

JCI Field Tech/Self Sustainers

- Simple commissioning
- Trouble-free **upgrades**
- Increase field productivity

- Purchase only the features we plan to use
- Provide dashboards
- Provide summary reports
- Provide facility overview & optimization info
- Provide equipment overview & optimization info
- Provide energy overview & optimization info
- Allow me to show the value of improvements I'm making
- Allow me to quickly locate the information I need
- Provide detailed displays of equipment, systems and the relationships between them
- Allow me to make changes from my mobile device
- Allow me to make notes on issues & resolutions
- Provide me with tools that maximize my productivity
- Enable me to easily utilize the latest software applications and technology
- Reduce my time to build and maintain customization



What is Optimization?

Optimization algorithms do much more than automation

Automation (BAS)	Optimization (BMS)
Prerequisite	Opportunity
Sequences	Algorithms Fault Detection Real time Continuous Commissioning
The order of events	The optimal events
Executes	Advises
Holds setpoints	Calculates optimal states, speeds, setpoints
Meets the load	Meets the loadwith minimum power
Today's standard	Tomorrow's standard



Case Study

- 430,000 square foot building
- Aging Infrastructure
 - Boilers were 70% efficiency
- Need to become more energy efficient
- No lighting control
- No Boiler Control
- Unable to see space temperatures
- Systems running inefficiently
- Evaluation and Phased Approach



What has been done....

Lighting Control –occupied and unoccupied

- Metering –Separated Kitchen and other high energy consumers
- BAS infrastructure –allowed operators to have a better understanding of the current state
- Control of the conference rooms
- Replaced Boilers with new more efficient equipment
- Night Setback and Optimum Start/Stop



Gas Savings

Boiler Energy Savings-\$70,000 per year

Night Setback and Start Stop Optimization-Savings \$30,000 per year



Gas Rebates

Boiler Retrofit with Night Setback and Optimum Start Stop

\$50 per 1,000 square ft

\$2 per MBH

*Note-Provide Sequence of Operation with submission and drawings for proof of square footage

DTE ENERGY REBATE AMOUNT.....\$32,354



Summary of Project

PROJECT AMOUNT	.\$440,000
PRESCRIPTIVE REBATE AMOUNT	\$32,354
OVERALL ENERGY SAVINGS PER YEAR	\$100,000
SIMPLE PAYBACK	4.07 years



Interior Central Lighting Control Rebate BMS HVAC Electric



What's Next...BMS...Enterprise Systems...

Improperly configured BMS systems are believed to account for 20% of building energy usage, or approximately 8% of total energy usage in the United States



We Start with the Biggest Energy Consumer...





Implementing a Data-driven Solution with the 3 Laws of Optimization

You cannot optimize what you cannot measure.

- Data collection via fully integrated sensor and meter network
- All relevant mechanical components tracked in real time

Optimize systems, not just individual components.

- Holistic, system-based energy optimization
- Ensures peak efficiency of entire heating and cooling system

Optimization must be automatic, dynamic, and continuous.

- Real-time dynamic process
- Closed-loop system: does not require operator intervention

...and we Solve this Problem at Scale.

Lower Total Cost of Operations through a data-driven system that *learns and adapts over time*





OptiCx Platform Architecture OPTI(⊂x) **Physical View** PLATFORM Machine Learning Layer Machine Learning Modules Data science driven learning modules for enhanced performance ø System Diagnostics & Prognostics Mobile & Desktop **Operating Applications** Energy & Sustainability Monitoring **Cloud Layer** Tech Support Managed Services Cloud-based SaaS applications facilitate multi-site managed **Operations Support** services and operational analytics **Optimization Layer** Real-time Dynamic Commissioning [™] OptimumL00P[™] OptimumVAV[™] **Control Layer** OptimumHT™ OptimumX Traditional Building Automation **Building Automation System Operational Modules** Sensor & Intelligence Layer Meter Actuator Sensor ET/ **Device Layer** VFD's VFD's Pumps & Tower Fans Chillers **Boilers** AHUS VAVs / CAVs Controlled mechanical devices Valves Johnson

Controls

Future Value of Data-driven Optimization: Continuum of Service





Cloud-based FDD, M&V and Performance Drift Mitigation



OptiCx Trend

OptiCx Trend - anytime, anywhere access to performance and energy savings. Available through all major Web browsers, and in both the <u>Apple App Store and</u> <u>Google Play</u> marketplaces.

Features include:

- Continuously monitor energy, carbon and dollar savings in real time, or historically
- Configure or customize your experience for access to the unique trends and information you need (*web-only*)
- Verify site performance against pre-optimization levels
- Ensure progress towards sustainability goals
- Share status with others in one click (mobile-only)
- Proactively respond to ambient and operational changes as they occur







Sample Customer Chiller Plant Efficiency



25% Efficiency Improvement

Chiller Plant Efficiency Scale - Current and Projected

Average annual chilled water plant efficiency in kW/ton. Input includes: chillers, tower fans, condenser pumps, and chilled water pumping.



Projected Financial Savings

- Saving 1,719,146 kWh/year
- Æ Equates to \$134,317 per year (cost .08 kWh)
- // CT Water Savings (gal/yr) 610,244
- // Carbon Footprint Reduction (lbs/yr) 3,758,635
- 2.89 year simple payback with estimate utility incentive

*Does not include tax credits or deductions



Incentive Calculation

- Annual (ton-hours) 7,421,776
- M Saving 1,719,146 kWh/year
- ✓ DTE Rebate .07 per kWh saved
- // Projected DTE Rebate amount \$120,340.00
- // Total Project Cost \$458,288.00
- Met Project Cost \$347,948.00
- 2.89 year simple payback with estimate utility incentive

*Does not include tax credits or deductions



Thank You.



Building Management Systems Technical Training



Troy Simmon DTE Energy Energy Efficiency Program for Business



Program purpose

To help commercial and industrial contractors <u>and</u> customers*:

- <u>Improve</u> 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





Since 2009:

- More than \$100 million in cash rebates has been paid to Michigan businesses:
 - Electric: **\$87 million** Gas: **\$15 million**
- More than **32,000 projects** have been completed.
- And realized savings of:
 - 1,800 GWh in electric usage.
 - 4.7 million Mcf in natural gas usage.
 - **\$220 million** in total energy costs.



What <u>Customers</u> get from our Program

- Reduced upfront project costs.
- Cash incentives for being energy efficient.
- Reduced energy use and lower bills in the long run.*
- Lower maintenance costs.
- Short, simple payback.

Program Overview



For a customer to receive incentives

- Qualified measures must be installed at facilities served by DTE Energy.
- Projects must involve a <u>capital investment</u> 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.
- You must be in good standing with DTE Energy and <u>not</u> 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.







Program Overview









2014 Participation by Technology: <u>Prescriptive Electric</u> (MWh)






2014 Participation by Technology: Custom Electric (MWh)







2014 Participation by Technology: <u>Prescriptive Natural Gas</u> (Mcf)







2014 Participation by Technology: Custom Natural Gas (Mcf)



Funding Opportunities



Sources:

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 sources:

• Municipal bonds (schools and government)



Changes and enhancements for 2015



The **Catalog** and **Application** remain unchanged in design and function.

 The Application remains an interactive PDF file that performs automatic calculations

Energy Efficiency Program for Business	DTE Energy Energy Efficiency Program for Business
	2015 Measures
2015 Program Application	and Specifications
This Application is to be used for projects completed with a Final Application	Catalog
submitted during the 2015 Program Year (Jan. 1, 2015 - Nov. 30, 2015).	Catalog
Section 1 – Application	
Incentive Application Checklist	
Customer Information	
Contractor Information	
Final Application Agreement	
Incentive Summary, Final Agreement Information	
and Account Holder Signature Page	
Section 2 - Incentive Worksheets	
Lighting Incentive Worksheet	
HVAC Electric Incentive Worksheet	
Miscellaneous Electric Incentive Worksheet	
Process Electric Incentive Worksheet	
Food Service – Electric and Refrigeration Incentive Worksheet	
HVAC Gas Incentive Worksheet	
Hot Water and Laundry Incentive Worksheet	
Insulation Incentive Worksheet	
Process Gas Incentive Worksheet	
Boiler/Furnace Tune-up Incentive Worksheet25	
Food Service – Gas Incentive Worksheet	
Custom Measures Worksheet Instructions27 Prescriptive or Custom Project?	
Custom Incentive Worksheet	
Boiler/Furnace Tune-up Addendum	
How to Submit Your Application	
For New Construction and Major Renovation projects,	
download our NC/MR Applications at dteenergy.com/savenow If you have questions about other projects and the appropriate	
If you have questions about other projects and the appropriate Application to submit, contact us at 866-796-0512 (press option	
 or email us at saveenergy@dteenergy.com 	
V1:10/01/14	





New for 2015:

 Facility Caps <u>have been</u> <u>eliminated</u> for both Electric and Natural Gas projects.

	2014	
Cap Level	Electricity	Natural Gas
Facility	\$750,000	\$200,000
Project	\$200,000	\$100,000
Customer	\$750,000	\$200,000

NAA

- Project Caps <u>have been increased</u> for both Electric and Natural Gas projects.
- Customer Caps <u>have been increased</u> for both Electric and Natural Gas projects.

2015 Caps

Cap Level	Electricity	Natural Gas
Project	\$250,000	\$200,000
Customer	\$1,000,000	\$300,000



New for 2015:

4. Custom Incentives have been increased for Natural Gas projects.

Custom Incentives	2014	2015
Electric	\$0.07/kWh	\$0.07/kWh
Natural Gas	\$3.50/Mcf -	→ \$4/Mcf



New for 2015:

5. Prescriptive Incentives have been decreased for these electric

lighting measures:

Ref #	Measure	2014 -	2015
7-1	CFL - Screw-in (≤ 31 Watts)	\$1.50	\$0.75
7-2	CFL - Screw-in (> 31 Watts)	\$10.00	\$5.00
7-3	CFL Reflector Flood Lamps	\$10.00	\$5.00
7-4	Compact Fluorescent Fixture	\$22.00	\$10.00
7-5	42W 8-Lamp High Bay Compact Fluorescent Fixture	\$35.00	\$20.00
7-6	LED A-Line Lamp < 19 Watts	\$12.00	\$5.00
7-7	LED A-Line Lamp ≥ 19 Watts	\$15.00	\$8.00
7-8	LED Recessed Down Light	\$15.00	\$8.00
7-10	PAR LED Lamps	\$10.00	\$8.00
7-20-30	Interior Linear LED	\$0.08	\$0.07
9-1	Exterior CFL replacing up to 175W HID	\$30.00	\$15.00
9-2	Exterior CFL replacing 176W to 250W HID	\$45.00	\$22.50
9-3	Exterior CFL replacing 251W to 400W HID	\$85.00	\$42.50



Ref #	Measure	2014 -	2015
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7-2	CFL - Screw-in (> 31 Watts)	\$10.00	\$5.00
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9-2	Exterior CFL replacing 176W to 250W HID	\$45.00	\$22.50
9-3	Exterior CFL replacing 251W to 400W HID	\$85.00	\$42.50



New for 2015:

6. <u>HVAC electric</u> pages have been changed from fill-in-theblank:

	c Incentive Work: millen Pompolexalading Graand &		Check the Michigan-Made replacement and not a retrol Michigan-Made bonus speci
Equipment Type	Size Category	Qualifying Efficiency	Incentive (perton
	≤ 65,000 Btu/hr (5.4 tons) - 1 Phase	14.0 SEER	\$10.00
	≤ 65,000 Btu/hr (5.4 tons) - 3 Phase	14.0 SEER	\$10.00
Haitana and Sala	> 85,000 Btu/hr (5.4 tons), ≤ 135,000 Btu/hr (11.3 tons)	12.0 EER	\$15.00
Unitary and Split Air Conditioning Systems	> 135,000 Btu/hr (11.3 tons), < 240,000 Btu/hr (20 tons)	12.0 EER	\$15.00
	> 240,000 Btu/hr (20 tons), < 760,000 Btu/hr (63.3 tons)	10.8 EER	\$10.00
	> 760,000 Btu/hr (63.3 tors)	10.2 EER	\$10.00
and the second s	≤ 65,000 Btu/hr (5.4 tons) - 1 Phase	14.0 SEER	\$20.00
	≤ 65,000 Btu/hr (5.4 tons) - 3 Phase	13.0 SEER	\$10.00
Air Source Heat Pumps	> 65,000 Btu/hr (5.4 tons), ≤ 135,000 Btu/hr (11.3 tons)	11.0 EER	\$20.00
	> 135,000 Btu/hr (11.3 tons), < 240,000 Btu/hr (20 tons)	11.0 EER	\$25.00
b	>240,000 Btu/hr (20 tons)	10.0 EER	\$30.00
	s 17,000 Btu/hr (1.4 tons)	11.5 EER	\$10.00
Closed Loop Heat Pump	> 17,000 Btu/hr (1.4 tons), < 65,000 Btu/hr (5.4 tons)	12.3 EER	\$8.00
	> 85,000 Btu/hr (5.4 tons), ≤ 135,000 Btu/hr (11.3 tons)	12.3 EER	\$8.00
Dece Michael Steam	≤14,000 Btu/hr (1.17 tons)	ENERGY STAR® (Tier 1)	\$10.00
Room Air Conditioners	> 14,000 Btu/hr (1.17 tons)	ENERGY STAR® (Tier 1)	\$25.00
Package Terminal Air Conditioner	ÁLL	9.3 EER	\$5.00
Package Terminal Heat Pump	ÁLL	9.1 EER	\$10.00

Ref#	Equipment Type & Size Category	Make and Model	(EER)	SEER or IPLV	HSPFor COP	Unit Size (tons) (A)	Quantity (B)	Incentive Per Unit (C)	Incentive (A*B*C)
10-1						J T			
10-2						1			1
10-3	-		1						

Ref#	Description	Size Category	Incentive	Unite	∂ofUnits	Total Incentive	T
10-4		≤14,000 Bbs/hr (1.17 tons)	\$10.00	Conditioner			
10-5	Room Air Conditioners	> 14,000 Btu/hr (1.17 tons)	\$25.00	Conditioner			

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anly if the piece of equipment is for a full unit h you are seeking an incentive, meets the <u>nd</u> you can provide the manufacturer affidavit.



,	Ref	∉ Equipment Ty	ype	Size Category	Qualifying Efficiency	Installed Efficiency	Unit Size (tons) (A)	Quantity (B)	Incentive per unit (C)	Incentive (A*B*C)	1
to individu	10-1			< 65,000 Btu/hr (5.4 tons) - 1 Phase	14.0 SEER			-	\$10		16
	10-2			< 65,000 Btu/hr (5.4 tons) - 3 Phase	14.0 SEER				\$10		10
measures:	10-3	and the second second	in the second	>65,000 Btu/hr (5.4 tons), < 135,000 Btu/hr (11.3 tons)	12.0 EER		-	1 : 1	\$15		
•	10-4		olit Air Conditioning	> 135,000 Btu/hr (11.3 tons), < 240,000 Btu/hr (20 tons)	12.0 EER		-		\$15		
	10-5	5		> 240,000 Btu/hr (20 tons), < 760,000 Btu/hr (63.3 tons)	10.8 EER				\$10		
	10-6			> 760,000 Btu/hr (63.3 tons)	10.2 EER	1.0		1	\$10	BB-	
	10-7	10-7 10-8		< 65,000 Btu/hr (5.4 tons) - 1 Phase	14.0 SEER	1			\$20	- P.4	
	10-8			< 65,000 Btu/hr (5.4 tons) - 3 Phase	13.0 SEER		1	-	\$10		
	10-	Air Source Hea	Air Source Heat Pumps	> 65,000 Btu/hr (5.4 tons), < 135,000 Btu/hr (11.3 tons)	11.0 EER				\$20		E
	10-10	10-10	> 135,000 Btu/hr (11.3 tons), < 240,000 Btu/hr (20 tons)	11.0 EER				\$25			
	10-11			> 240,000 Btu/hr (63.3 tons)	10.0 EER		1.0.1.0.4		\$30		
	10-12	10-12 10-13 Closed Loop Heat Pump		< 17,000 Btu/hr (1.4 tons)	11.5 EER		1.0.00		\$10		
	10-13			> 17,000 Btu/hr (1.4 tons), < 65,000 Btu/hr (5.4 tons)	12.3 EER				\$8		
	10-14	10-14		> 65,000 Btu/hr (5.4 tons), < 135,000 Btu/hr (11.3 tons)	12.3 EER				\$8		
	10-15	5		< 14,000 Btu/hr (1,17 tons)	9.5 EER				\$10		
		Room Air Cond	ditioners.	> 14,000 Btu/hr (1.17 tons)	9.2 EER				\$25	_	
	10-17	7 Package Termi	inal Air Conditioner	ALL	9.3 EER				\$5		1.0
1-15	< 14,000 Btu/hr (1.17	7 tons)	9.5 EER					\$10			Ē
Room Air Conditioners								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			E
0-16	> 14,000 Btu/br (1.1)	(tons)	9.2 EER					\$25			



Important for 2015:

- 7. The 2015 Program Year <u>ends Nov. 30</u>. This means:
 - a. No Reservations extend beyond Nov. 30.
 - b. Final Applications <u>must</u> be submitted within 60 days of project completion or Nov. 30, whichever comes first.
 - c. Incomplete Final Applications will face cancellation.
 - d. Any Application submitted after Nov. 30 will be canceled.

This form MUST be included with any Reservatio If this is a New Construction or Major Renovation project, ples discenergy.com/savenow. Submittal Date Is this a revised Application? yes no	n and/or Final Application. ase use that Application, which can be found online at: Application Number (if known)
completed forms and required documentation with itemized invoices to: Fax: 877.6 Phone: 8 Email: sa	48211
Reservation Application	Final Application
Fill out this side when reserving incentives	Fill out this side when project is completed
Hequired Attachment Customer Information Contractor Information W19 Tax Information Form (customert) .3 Michigan-Mode Affidevit(s) (if applicable)	Required Attachments Contractor Information A W9 Tax Information Form (if different than customer) 3rd Party Payment Authorization* 4 Signed Final Application Agreement 5 Manufacturens* Specifications Itemized Invoices Michigan-Made Attridavits) (if applicable)
Incentives Worksheets	Incentives Worksheats
Lighting .7 HVAC – Biectric .10 Miscellaneous Flectric .17 Process Electric .18 Food Service – Bectric .20 HVAC – Gas. .22 Hot Water & Landry. .23 Insulation. .24 Boiler/Fumace Time-up. .25 Food Service – Gas. .22 Boiler/Fumace Tune-up. .25 Boiler/Fumace Tune-up.Addendum. .32	Lighting .7 HVAC - Electric .10 Miscellaneous Electric .17 Process Electric .18 Food Service - Electric .20 HVAC - Gas .22 Hot Water & Landry. .23 Instalation. .24 Process Gas .24 Boler/fumace Tune-up. .25 Food Service - Gas .26 Custom. .29 Boler/fumace Tune-up. Addendum .32
Reservation Application Date	Final Application Date
Expected Completion Date** **Project funds will only be reserved for 90 days from date of Reservation	Actual Completion Date*** ***Application must be submitted within 60 days of completion date or by
and no Reservation will extend beyond Nov. 30, 2015.	Nov. 30, 2015, whichever comes first.

Reservation Application Date

Expected Completion Date"

*Project funds will only be reserved for 90 days from date of Reservation and no Reservation will extend beyond Nov. 30, 2015.

Final Application Date

Actual Completion Date

**Application must be submitted within 60 days of completion date or by Nov. 30, 2015, whichever comes first.



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New for 2015:

8. The Boiler/Furnace Addendum is now part of the Application, as well as a stand-alone document.

Tune-up Checklist – Furnace/Boiler #1	
Site Name	Date of Tune-up
Manufacturer Type (Hot Wate	Boiler, High/Low Pressure Steam Boiler, Furnace, RTU)
Model Number	Annual Hours of Operation
Serial Number	Unit Input Capacity (MBH)
Company Performing Tune-up	Technician Performing Tune-up
Measure pre/post combustion efficiency using electronic flue gas analyzer	Check safety controls
Adjust combustion air flow and air intake as needed, reduce excessive	Check adequacy of combustion air intake
stack temperatures	Check for proper venting
Adjust burner and gas input, manual or motorized draft controls	Check Draft Control Dampers
Clean burners, combustion chamber and heat exchanger surfaces Complete visual inspection of system piping and installation	Clean and inspect burner nozzles

Include a copy of the combustion analyzer test (boilers only)

Manufacturer Type (Hot Water	r Boiler, High/Low Pressure Steam Boiler, Furnace, RTU)
Model Number Serial Number Company Performing Tune-up Adjust combustion air flow 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 test (boilers only)	Annual Hours of Operation Unit Input Capacity (MBH) Technician Performing Tune-up Check safety controls Check adequacy of combustion air intake Check for proper venting Check Draft Control Dampers Clean and inspect burner nozzles
	you perform at the same site. Use additional copies as needed, e (at the same site) so the total incentives can be correctly calculated and entered.



New for 2015:

- 9. If <u>two or more</u> contractors are to receive direct payment, the Customer <u>must</u> complete and sign the new <u>Multiple Payment</u> <u>Addendum</u> (right).
- 10. The Commercial Kitchen Ventilation Hood with Demand Control measure has been <u>eliminated</u> for electric projects only.

Incentive Application Multiple Payment Addendum

This addendum is to be used <u>ONLY</u> if two or more parties are being approved for payment of incentives on the attached Final Application. This form must be signed by the DTE Account Holder, and all values must be completed before submitted. Any incomplete values will delay processing of this Application for payment. **NOTE:** If the Customer/Account Holder is to receive a portion of the project payment, s/he should be listed as **Payee 1**.

I am authorizing the payment of the incentives in the attached Final Application to the third parties named on this form, and I understand that I will not be receiving the incentive payment. I also understand that my release of payment to these third parties do not exempt me from the Program requirements outlined in the Measure Specifications, Final Application Agreement and Policies and Procedures Manual.

DTE Account Holder Signature		Date
s much permudi payable to		Para
ayee 1: Company/Individual		Percentage of project: \$
Mailing Address		Percentage of project.
City	State	ZIP
		and the second se
	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec	eral Tax ID or Social Security Number below:
EIN/Federal Tax ID	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec Socia	leral Tax ID or Social Security Number below:
ayu e Tax Information (as enter Status: OLimited Liability Comp In ID Number: Depending on tax	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec Socia	leral Tax ID or Social Security Number below:
Status: OLimited Liability Comp With the second se	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec Socia	Portion of project \$
Angel 2: Company/Individual	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec OR	Portion of project \$%
And the second s	any O Corporation (Inc., PG, Etc.) O Tax-Exer status please provide EITHER your EIN/Fec OR Social State	Portion of project \$%



Multi-Measure bonus continues

- 20% bonus on multiple categories submitted on the same Application – when no single category is more than 75% of the Application.
- Our Catalog now highlights measures that appear in both electric and gas that automatically qualify.



Michigan-Made bonus continues

- 15% bonus for any installed equipment that is 50% manufactured and/or assembled in Michigan (excluding packaging).
 - Some Prescriptive measures are not eligible.
 - Custom projects are not eligible.



Steam Trap Survey-Repair/Replacement Incentive offer is new!

- Get **\$10** on each steam trap survey, as long as the following conditions are met:
 - Offer runs:

Oct. 1, 2014 to Jan. 31, 2015

- Requires special Application.
- Requires accompanying trap repairs and/or replacements on the same Application.
- Survey incentive is capped at 50% of incentives for repairs/replacement.
- We will accept surveys conducted 6 months prior.
- Added incentive will not be paid to Customers who participated in this offer in the 2014 Program year and did NOT repair any of the traps previously identified as failed.





Boiler Tune-up Bonus is back!

- Technicians can receive a \$10
 bonus for every completed boiler tune-up that meets Program specifications.
 - Offer runs:

Nov. 1, 2014 to Jan. 31, 2015

• Special worksheet is available.

Energy Efficie Program for B	ncy Jusiness	STE Energy Know Your Own Power
2015 Boiler Tun	e-up Bonus	
Fechnicians: receive a for each tune-up you DTE Energy's Energy Efficiency Program with \$10 for every completed boiler tur imply complete both sides of this wor attach a complete interactive PDF), fa Ve'll then issue you – the technician – t's that simple. o qualify for this \$10 tune-up bonus, y f you find other work that can be perfor rade Ally website: dtetradeally.com	perform for Business will reward individual tt e-up that meets our Program specific: (skheet and submit it to our office via or x or mail. \$10 for each tune-up for a total of: ou must complete your work and subm mmed for your customer, use our reguli	tions. mail
Customer Information		
DTE Energy Gas Account Number (at F	Project location)	and the second
Business Name	N	me on DTE Energy bill
Contact Person	Π	le
Phone #	Fax#	Email
Mailing Address	City	State ZIP
Installation Address	City	State ZIP
Customer Tax Information Tas ent Tax ID Number: Depending on tax s EIN/Federal Tax ID		EIN/Federal Tax ID or Social Security Number below: Social Security Number
Contractor Information		
Name of Technician	N	ime of Company
Phone #	Fax #	Email
Mailing Address	City	State ZIP
Account Holder Signature y signing this form, the Account Holder ac as met the requirements as stated in that	knowledges that s/he has read the Final A Application and in the Program's Policies a	greement Information contained on Page 5 of the main Program Application and nd Procedures Manual.
DTE Account Holder Name (print)		DTE Account Holder Title
DTE Account Holder Signature		Date
Intractor, you must complete and sign the Third-Party To submit your reque	ayment Authorization form on the back. Signed works St r electronically (and it will automatica ccess to all our Program Applications	thate is required for payment. If you are authorizing that incantive payments be made directly to the easts received by fax or email will be treated the same as forms received by mail. Iy calculate your incentives). Once completed, you can submit it to our and forms, visit: dtetradeally.com ali: DTE Energy's Energy Efficiency Program for Business
hone: 866.796.0512 (press option 3) veb: dteenergy.com/savenow		PO. Box 11289 Detroit, MI 48211



Gas-only Application *is back!*

Only certain common prescriptive measures* are included:

• Boiler/Furnace Tune-up (w/addendum)

- Space Heating Boiler
- Process Boiler
- Domestic Hot Water
- Furnace/RTU

• HVAC

- Boilers & Furnaces
- Infrared Heaters
- HVAC Controls
- Insulation
- Process

Submit same way as main Application

Energy Efficiency Program for Business	Know Your Own Power
2015 Program	
Special Application	
for Boiler/Furnace Tune-ups	
and Prescriptive HVAC Natural G	
This Application can be used for boiler and furnac Prescriptive measures involved in Natural Gas pr measures also can be found in the main Program be used for projects completed with a Final Appl Program Year (January 1, 2015 – November 30, 20	ojects; these and other Program Application. This Application is to cation submitted during the 2015
Section 1 - Application	
Incentive Application Checklist	
Customer Information	
Contractor Information	
Third Party Payment Authorization	
Final Application Agreement	
Incentive Summary, Final Agreement In	
and Account Holder Signature Page	
Section 2 - Incentive Works	shoots
Boiler/Furnace Tune-up Incentive Works	
HVAC Gas Incentive Worksheet	
Insulation Incentive Worksheet	
Process Gas Incentive Worksheet	
Boiler/Furnace Tune-up Addendum	
How to Submit Your Application	13

*Uses main Application reference numbers



2014-15 Gas offer ends this year

Custom projects only:

- Must have documented savings of at least 25,000 Mcf to apply.
 - Savings ≥ 25,000 < 50,000 Mcf = \$4/Mcf
 - Savings ≥ 50,000 = \$5/Mcf
- Total customer cap for this offer is \$400,000.
- Reservation Applications must be submitted by April 30, 2015.
- Final Applications must be submitted within 60 days of project completion or by Nov. 30, 2015, whichever comes first.
- Incomplete Applications submitted on Nov. 30 *may* be cancelled.
- Final Applications submitted after Nov. 30 *will* be cancelled.

(Other conditions apply; see Application for details)

Energy Efficiency Program for Business	
014-2015 Multi-Year Natura ogram Guidelines, Specifications and	
Follow this easy process Are you sligible? To apply for incentives, you must be a DTE Energy Commercial or Industrial natural gas customer in good standing. Your project must be installed at a facility served by DTE Energy. Equipment installed must meet the specifications as explained in this Program Application form. Addicional details are available in the Poli and Procedures Manual, available on our website.	
Reservation Application (reservation of funds) Use this Application to reserve incentives from our limited funds. Ele (see Page 10 for instructions), enail, mail or fax a completed copy of Reservation Applications are required for all projects under this speci to participate in this offering.	
Installation You must complete your project within one year of receiving a Reserv through the reservation date provided.	ation Letter from us, which will confirm that we are holding incentives for you
Page 9 for instructions), email, mail or fax a signed a copy of this comp invoices and manufacturer specification sheets for the items installer	omplation or by Nov. 30, 2015, whichever comes first. Electronically submit (see letod Application and attach all required documentation, including dated, itemized d. The Final Application must be signed by the DTE Energy Account Holder.
Your Final Application must be submitted within 60 days of project or Page 9 for instructions), email, mail or fax a signed a copy of this comp invoices and manufacturer specification sheets for the items installed Application Checklist	letod Application and attach all required documentation, including dated, itemized d. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and
Your Final Application must be submitted within 60 days of project or Page 9 for instructions), email, mail or fax a signed a copy of this comp invoices and manufacturer specification sheets for the items installer Application Checklist Complete this checklist — including expected and actual completion submission of all required documents. Failure to attach the necessary	leted Application and attach all required documentation, including dated, itemized d. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and y documents could delay processing of this Application.
Your Final Application must be submitted within 60 days of project or Page 9 for instructions), email, mail or fax a signed a capy of this comp invoices and manufacturer specification sheets for the items installer Application Checklist Complete this checklist — including expected and actual completion submission of all required documents. Failure to attach the necessan Customer Name:	leted Application and attach all required documentation, including dated, itemized d. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and y documents could delay processing of this Application. Project Name
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Your Final Application must be submitted within 60 days of project of Page 9 for instructions), email, mail or fax a signed a copy of this comp invoices and manufacturer specification sheets for the items installer Application Checklist Complete this checklist — including expected and actual completion submission of all required documents. Failure to attach the necessan Customer Name: Submittal Date Is this a revised Application? Uses Union Reservation Application Fill out this side when reserving incentives Required Attachment Customer Information3 Contractor Information3 W9 Tax Information form (customeri3	leted Application and attach all required documentation, including dated, itemized 4. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and documents could delay processing of this Application. Project Name Application Number (if known) Final Application Fill out this side when project is completed Required Attachments Contractor Information W9 fax Information Form (if different than customer). 4 Sed Party Payment Asthonation". Signed Final Applications Manufacturers' Specifications I temized Invoices
Your Final Application must be submitted within 60 days of project of Page 9 for instructions), email, mail or fax a signed a copy of this comp invoites and manufacturer specification sheets for the items installed Application Checklist Complete this checklist — including expected and actual completion submission of all required documents. Failure to attach the necessary Customer Name: Submittal Date Is this a revised Application? Uses Into Reservation Application? Into Reservation Application Fill out this side when reserving incentives Required Attachment Customer Information3 Customer Information3 W9 Tax Information form (customeri3) Incentives WorksTients-	leted Application and attach all required documentation, including dated, itemized 4. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and cocuments could delay processing of this Application. Project Name Application Number (if known) Final Application Fill out this side when project is completed Required Attachments Customer Information3 Contractor Information4 Signed Firal Applications4 Signed Firal Applications5 Manufactures' Specifications I temized Invoices Manufactures' Specifications I temized Invoices Monufactures7
Your Final Application must be submitted within 60 days of project or Page 8 for instructionst, errorl, mail or fax a signed a copy of this comp invoices and manufacturer specification sheets for the items installed Application Checklist Complete this checklist — including expected and actual completion submission of all required documents. Failure to attach the necessar Customer Name: Submittal Date Is this a revised Application? yes no Reservation Application Fill out this side when reserving incentives Required Attachment Customer Information3 Contractor Information3 Worksheet7	leted Application and attach all required documentation, including dated, itemized 4. The Final Application must be signed by the DTE Energy Account Holder. dates — to ensure compliance with all requirements of the Program and r documents could delay processing of this Application. Project Name Application Number (if known) Final Application Fill out this side when project is completed Required Attachments Customer Information Guidenation from (if different then customer), 4 Sed Party Payment Authonization* Signed Final Applications Different Application Signed Final Application Different Completed Different Program Different Specifications Different Program Authonization* Different Program Differen

Designated Trade Allies



About our Designated Trade Allies



How customers find Designated TAs:

• Click on: dteenergy.com/savenow





How customers find Designated TAs:

 Click on Energy Efficiency
 Directory link

My Account	Billing/Payment	Save Energy	Start/Stop Service	Problems/Safety	Products/Programs	Contact Us
 Incentives and Offers Energy Tips Business Energy Anal EO Credits Energy Efficiency Event Lighting Advisor Find a Contractor 	yzer energy efficie many applica refrigeration *DTE Energ Ask the r	coline Energy Efficient ent, and the you save e ations, including but not l and food service equipm y does not endorse any ight questions be	nergy and money. You'll find imited to, lighting, motors a itent. * manufacturer, product or in:	ly find a reliable contractor d listings for contractors v nd drives, controls, heati staller.	or to make your business more who sell and install energy-effin ng ventilation and air condition	cient equipment for
 Become a Contractor Case Studies-Fact Sh Financing Self Directed Options Interactive Business 	eets perfo • A list • A wri warra • A wri	rmance of references and crede tten, itemized estimate. I anties-not just price. Che	ntials regarding the quality Never accept estimates by eaper, but less energy-effici	of installation and/or serv phone. When comparing ent equipment or service	stalled to provide intended efficience work performed estimates, consider cost, ener s could increase your energy b odel numbers, job schedule an	rgy efficiency and bills
COMODO SECURE	Custom	er Support DTE	Energy Company S	ubsidiaries Spec	ial Topics	E 🔰 f You



Register

Sign In

How customers find Designated TAs:

DTE Energy

Powered by Google Search • They can search Residential Business About Us A Print Page ? Help Center Start/Stop Service Problems/Safety Contact Us My Account **Billing/Payment** Save Energy Products/Programs by their Location Incentives and Offers Welcome to the DTE Energy Efficiency Directory (city or ZIP) Small Businesses DTE Energy customers can use this tool to find qualified contractors who participate in our Commercial and Industrial energy efficiency rebal programs. Follow the instructions below to get started on your path to a more energy efficient business! Energy Tips Step 1: Enter your location below (City or Zip Code) Busines Energy Analyzer Step 2: Select your project from the drop down list and hit "Search" to find participating contractors EO Credits Step 3: For rebate availability, call 866.796.0512. **Energy Efficiency Events** Lighting Advisor Feedback Enter a Location **O**r Find a Contractor City or ZIP Code Become a Contractor Case Studies-Fact Sheets Q Search by Program ▶ Financing Electric & Gas Equipment 5 Self Directed Options 3 Express Certified Contractors They can search Interactive Business Service Equipment > HVAC 3 by **Program** Insulation > Lighting 3 Type 3 **New Construction** > Water Heating > **Other Services**



Search.

How customers find Designated TAs:

DTE Energy Register Sign In • Once they Powered by Google Business About Us S Print Page 7 Help Genter Residential narrow their Same Entropy Problems Ballets My Account Illing Vayment BlackStep Service ProductsPrograma Context Lin. search, they can Incentives and Offers Your Search Results for Thirden Go Back 9 Modily Search Location 5 Sec. 1 Except Manager (1978) 48285 refine their Energy Tow Vew cesure As: List Map Business Energy Analyzer Sotby Rating D, stanos I of Jobs Q Modilly your Station EO Greden search again by Molico Dectric Electric & Gas Equipment 0 Energy Efficiency Events 1.6% 3162 Paintetto CL, Trenton, MI 000000 Express Certified Contractors 734,216,2492 Ughting Advisor **Food Service Equipment** Expert Heating & Cooling **Program Type** Find a Contractor 00.00 20 21811 Allen Road, Woodhaven, MI HWAC. **Golers Install** Case Stockes-Fact Sheets DA Mechanical, LLC 1928 Euroka Road, Wyandotte, Mil Boliers Tune-up 00000 8 mi Financing **Ceiking Fans? Dostrat:** 734.620.2112 Self Directed Options Chilera. Gee & Masier, Inc. **Direct Digital Controls (DDC)** Ser. 744 Vinewood, Wyandose, Mil Interactive Business 734,284,1224 Duct Sealing Electric Freet Purge Expert Mechanical Sentce, Inc. 17 10 mil Energy Management Systems 542 Biddle Ave, Wyandotle, MI 03800 734 235 4589 Furnices. Hear Recovery Q & G Building Co. 30735 Cypress, Ste 600, Romalus, MI 15 mil à. OC SON W MARC 313.363.6700 R Mexicory Beckinger Energy Management Services Rookop Systems 16 mi 0 2050 Monroe Boulevard, Dearborn, Mil 220222 Street Systems 313215.6202 Insulations. UVS Electronics Sec. 17.m Û Lighting 25807 Michigan Ave., Inkider, Mi 353,218,7562 New Construction <12345578910> Water Neating

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Feedback

x

ENERGY EFFICIENCY PROGRAM FOR BUSINESS



About Incentives





There are three types of projects

Prescriptive	 <u>Predetermined</u> measures and incentives for the installation of various energy efficient improvements. Incentives typically average 20% to 50% of the incremental cost.
Custom	 <u>Capital investment</u> projects that increase energy efficiency and are <u>NOT</u> 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: \$0.07/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:

	A Reservation Application <i>is required</i> for certain measures: check the Application for details.
Custom •	A Reservation Application <i>is required</i> for all Custom projects.
New Construction Major Popovation	A Reservation Application <i>is encouraged</i> for all New Construction and Major Renovation projects. <u>NOTE</u> : <i>No Reservation will extend beyond Nov. 30, 2015.</i>

If you submit a Reservation Application, do **NOT**

start your project until you receive a **Reservation Letter!***

*Could take 4-6 weeks to receive the letter

About Incentives



Prescriptive

Prescriptive - Electric

HVAC

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

2015 Prescriptive Electric Measures

Lighting

Central Lighting Controls Compact Fluorescent Screw-in Lamps Compact Fluorescent Reflector Flood Lamps Compact Fluorescent Fixtures Daylight Sensor Controls Delamping **Exit Sign Conversion** Exterior Lighting Bi-level Control w/Override Exterior Linear Fluorescent replacing High-Intensity Discharge (HID) Exterior CFL replacing HID Garage/Exterior High-Intensity Discharge (HID) Conversion High Performance (HP) Linear Fluorescents Interior High-Intensity Discharge (HID) to Fluorescent Fixture LED Lamps LED or Induction Interior High Bay LED Traffic Signals LED Refrigerated Door Case Lighting Low Wattage (LW) Linear Fluorescents Occupancy Sensors for LED Refrigerated Door Case Lighting Occupancy Sensors Pulse Start Metal Halide Switching Controls for Multilevel Lighting Tubular Skylights (Light Tubes)

Air-Cooled Chillers/Water-Cooled Chillers Air Source Heat Pumps Chilled Water Reset - Air Cooled/Water Cooled Chilled Water Reset with Pump on/off Control **Closed Loop Heat Pumps** Cool Roof Economizer Ground Source Heat Pump High Performance Glazing Hotel Guestroom Energy Management System (Air Conditioning) Packaged Terminal Air Conditioner & Heat Pump Programmable Thermostat (Air Conditioning) **Room Air Conditioners** Setback/Setup Controls (Air Conditioning) Unitary and Split Air Conditioning Systems Variable Frequency Drive - HVAC Fan/Pump Window Film

Miscellaneous Electric

High Efficiency Clothes Washer Intelligent Surge Protector PC Network Energy Management Controls

Process Electric

Barrel Wraps for Injection Molders & Extruders Compressed Air Engineered Nozzle Compressed Air Pressure Flow Controller Compressed Air Audits with Leak Repair Cycling Compressed Air Dryers Electronically Commutated Plug Fans High Efficiency Process Pumps Industrial 3-Phase High Frequency Battery Charger Insulated Pellet Dryer Ducts Tank Insulation Variable Frequency Drive for Process Pumping VSD Air Compressor

Food Service & Refrigeration

Anti-Sweat Heater Controls Beverage Vending Machine Controllers Door Gaskets on Coolers and Freezers ECM Motor for Refrigerator Cases, Freezers and Coolers Energy Efficient Ice Machines Efficient Refrigeration Condenser ENERGY STAR® Commercial Solid Door Refrigerators **ENERGY STAR® Commercial Solid Door Freezers** ENERGY STAR® Steam Cookers ENERGY STAR® Holding Cabinets Evaporator Fan Motor Controls **Floating Head Pressure Controls** LED Refrigerated Door Case Lighting Occupancy Sensors for LED Refrigerated Door Case Lighting Refrigeration Savings due to Lighting Wattage Reduction Strip Curtains on Walk-in Cooler and Freezer Doors Vertical Night Covers

DTE Energy Know Your Own Power' USE LESS. SAVE MORE.

ENERGY EFFICIENCY PROGRAM FOR BUSINESS

2015 Prescriptive Electric Measures



Ask us how DTE Energy can help you reduce your business' electric costs year after year!

About Incentives



Prescriptive

Prescriptive – Natural Gas

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

Hot Water and Laundry

Gas Water Heater - Tankless

Ozone Laundry System

Insulation

Pool Covers

Wall Insulation

High Efficiency Clothes Washer

Domestic Hot Water Pipe Wrap

Greenhouse Heat Curtain

Greenhouse Infrared Film

Roof Insulation (Flat/Attic)

Truck Loading Dock Seals

High Efficiency Pool Heater (Gas Heat)

Pipe Wrap - Steam and Hot Water Boiler

Truck Loading Dock Leveler Ramp Air Pit Seals

Gas Water Heater

Domestic Hot Water Heating System

Dry Cleaning Boiler Descale (Kettle/Tube-Type)

2015 Prescriptive Natural Gas Measures

HVAC

Boiler Modulating Burner Control Boiler Water Reset Control Chilled Water Reset Chilled Water Reset with Pump on/off Control Demand Controlled Ventilation Destratification Fans High Efficiency Furnace Hotel Guestroom Energy Management Control HVAC Occupancy Sensor for Large Office Buildings Infrared Heaters Programmable Thermostat Setback/Setup Controls Space Heating Boilers Steam Traps Variable Frequency Drive on Secondary Chilled Water Pump

Air Compressor Exhaust Heat Recovery

Furnace Tube Inserts High Efficiency Process Boiler (Water/Steam) Tank Insulation

Boiler/Furnace Tune-up

Boiler Tune Up Domestic Hot Water Boiler Tune-up Furnace/RTU Tune-up Process Boiler Tune-up

Food Service

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) DTE Energy Know Your Own Power MORE

ENERGY EFFICIENCY PROGRAM FOR BUSINESS

2015 Prescriptive Natural Gas Measures



Ask us how DTE Energy can help you reduce your business' natural gas costs year after year!

About Incentives



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.
- **NOTE:** for a complete review of custom project criteria, see the Application.







New Construction Major Renovation

New Construction/Major Renovation:

- New facilities/major renovations of existing facilities/change of use.
- Adding load.
- Incentives are offered in three areas:
 - Systems Approach:
 - Pre-determined measures designed to optimize efficiency of individual systems.
 - LEED Whole Building Approach:
 - Based on LEED certification.
 - Four levels of incentives based on certification.
 - LEED Certification Assistance:
 - \$1,500 for LEED project certification.







Getting Started in 2015

2015 Program Catalog



About our Catalog

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



2015 Program Catalog



There are five <u>electric</u> categories of measures in the Catalog:

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

There are 76 measure areas

 Each area lists specific types of measures within that section

The Application matches the measure sequence of the Catalog

	ive Electric Measures	
Lighting	Miscellaneous Electric	
Central Lighting Controls	High Efficiency Clothes Washer	
Compact Fluorescent Screw-in Lamps (CFL)	Intelligent Surge Protector	
(CFL) Reflector Flood Lamps	PC Network Energy Management Controls	
Compact Fluorescent Fixtures		
Daylight Sensor Controls 11	C IN C IN C IN C C I	
Delamping		
Exit Signs Retrofit		
Exterior Lighting Bi-level Control w/Override		
Exterior Linear Fluorescent replacing HID	FL · · · I · O · · · · I PL · F	
Exterior CFL replacing HID 10		
Garage/Exterior High-Intensity Discharge (HID) Conversion . 10		
High Performance (HP) Linear Fluorescents		
Interior High-Intensity Discharge (HID) to Fluorescent Fixture	Industrial 3 Phase HF Battery Chargers	
LED Interior Linear	· · · · · · · · · · · · · · · · · · ·	
LED Interior Linear		
LED camps		
LED Traffic Signals		
Low Wattage (LW) Linear Fluorescents		
Occupancy Sensors for LED Refrigerated Door	Beverage Vending Machines	
Case Lighting		
Occupancy Sensor		
Pulse Start Metal Halide	Energy Efficient Ice Machines.	
Switching Controls for Multilevel Lighting		
Tubular Skylights (Light Tubes)		
	ENERGY STAR® Commercial Solid Door Freezers	
HVAC Electric	ENERCY CTAR® One on Conferen	
Air-Cooled Chiller	ENERGY CTARS UNLINE OF LINE	
Air Source Heat Pumps	5 . 5 M. 0 . 1	
MM Chilled Water Reset – Air Cooled	Florefore Hand December Controls	
Chilled Water Reset – Water Cooled	LED Deficiented Data Constitution	
Chilled Water Reset with Pump on/off Control	0	
Closed Loop Heat Pumps	Door Case Lighting	
Cool Roof	Refrigeration Savings due to Lighting Wattage Reduction	
Economizer	Strin Curtains on Walk-in Cooler and Freezer Doors	
Ground Source Heat Pump 14	WW Vertical Night Covers	
High Performance Glazing		
Mit Hotel Guestroom Energy Management System	MM: Denotes measures that also appear in the Gas section of the Program, wh	
(Air Conditioning)	hath the Electric and Cae measure on the same Application	
Packaged Terminal Air Conditioner & Heat Pump		
Programmable Thermostat (Air Conditioning)		
Room Air Conditioners		
MM Setback-Setup Controls (Air Conditioning)		
Unitary and Split Air Conditioning Systems		
Variable Frequency Drive – HVAC Fan/Pump		
Water-Cooled Chiller		
Window Film		

2015 Program Catalog



We have highlighted Electric measures (MM) that also appear in the gas section of the catalog – and are therefore eligible for the Multi-

Measure Bonus.

Air-Cooled Chiller	16 LIVENUT STAIL Steam COOKERS
Air Source Heat Pumps	13 ENERGY STAR® Holding Cabinets
Colled Water Reset – Air Cooled.	Filementan Fen Matar Controla 20
MM Chilled Water Reset – Water Cooled	Flore in a local December Control in 21
MM Chilled Water Reset with Pump on/off Control	1ED Definemented Deer Coop Lighting 22
Closed Loop Heat Pumps	13 Occupancy Sensors for LED Refrigerated Door Case Lighting
Cool Roof	neindelation payings due to Lighting Wattage Reduction ZZ
Economizer	Strip Curtains on Walk-in Cooler and Freezer Doors
Ground Source Heat Pump	Vertical Night Covers
High Performance Glazing.	15
Hotel Guestroom Energy Management System (Air Conditioning)	14 Denotes measures that also appear in the Gas section of the Program, which means they qualify for the Multi-Measure Bonus. To receive the bonus, submit
HVAC Occupancy Sensor, Large Office Building	. 14 both the Electric and Gas measure on the same Application.
Packaged Terminal Air Conditioner & Heat Pump	13
Programmable Thermostat (Air Conditioning)	.14
Room Air Conditioners	13
Setback-Setup Controls (Air Conditioning)	14
I laitaniand Calit Air Conditioning Custome	17

MM: Denotes measures that also appear in the Gas section of the Program, which means they qualify for the Multi-Measure Bonus. To receive the bonus, submit both the Electric and Gas measure on the same Application.
2015 **Program Catalog**



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 48 measure areas

 Each area lists specific types of measures within that section

The Application matches the measure sequence of the Catalog

List of Eligible Prescriptiv	
HVAC Gas	Insulation
Boiler Modulating Burner Control	Domestic Hot Water Pipe Wrap
Boiler Water Reset Control	Greenhouse Heat Curtain
KMM Chilled Water Reset	Greenhouse Infrared Film
Chilled Water Reset with Pump on/off Control	Pipe Wrap – Steam and Hot Water Boiler
Demand Controlled Ventilation	Pool Covers
Destratification Fans	Roof Insulation (Flat/Attic)
High Efficiency Furnace	Truck Loading Dock Seals
MM Hotel Guestroom Energy Management Control	Truck Loading Dock Leveler Ramp Air Pit Seals
HVAC Occupancy Sensor, Large Office Building	Wall Insulation
Infrared Heaters	and a start of the
www Programmable Thermostat	Process Gas
Setback-Setup Controls	Air Compressor Exhaust Heat Recovery
Space Heating Boilers	Furnace Tube Inserts
Steam Traps	High Efficiency Process Boiler (Water/Steam)
Variable Frequency Drive on Secondary	Tank Insulation
Chilled Water Pump	
and the second sec	Boiler/Furnace Tune-up
Hot Water and Laundry	Boiler Tune Up.,
Domestic Hot Water Heating System	Domestic Hot Water Boiler Tune-Up 29
Dry Cleaning Boiler Descaling (Kettle/Tube-Type)	Process Boiler Tune-up
Gas Storage Water Heater	Furnace/RTU Tune-up
Gas Water Heater – Tankless	
High Efficiency Clothes Washer	Food Service Gas
High Efficiency Pool Heater (Gas Heat)	Commercial Kitchen Ventilation Hood
Ozone Laundry System	ENERGY STAR® Convection Ovens
	ENERGY STAR® Fryers
	ENERGY STAR® Griddles 30
	ENERGY STAR® Steam Cookers
	Fryers
10 m	M Night Covers (vertical)
	Ovens
	Pre-Rinse Sprayers (Gas Water Heat)
	MM: Denotes measures that also appear in the Electric section of the Program, which means they qualify for the Multi-Measure Bonus. To receive the bonus, submit both the Electric and Gas measure on the same Application.

2015 **Program Catalog**



We have highlighted Gas measures (MM) that also appear in the electric section of the catalog – and are therefore eligible for the Multi-Measure Bonus. Greenhouse Infrared Film

Process Gas Variable Frequency Drive on Secondary

Hot Water and Laundry

Domestic Hot Water Heating System	26
Dry Cleaning Boiler Descaling (Kettle/Tube-Type) 2	26
Gas Storage Water Heater 2	26
Gas Water Heater – Tankless 2	26
High Efficiency Clothes Washer	26
High Efficiency Pool Heater (Gas Heat)	6
Ozone Laundry System 2	26

Boiler/Furnace Tune-up

Boiler Tune Up	29	
Domestic Hot Water Boiler Tune-Up	29	
Process Boiler Tune-up		
Furnace/RTU Tune-up	29	

Food Service Gas

	Commercial Kitchen Ventilation Hood	30
	ENERGY STAR® Convection Ovens	30
	ENERGY STAR® Fryers	30
	ENERGY STAR® Griddles	30
	ENERGY STAR® Steam Cookers	
	Fryers.	30
rinv	Night Covers (vertical).	30
	Ovens	30
	Pre-Rinse Sprayers (Gas Water Heat).	30

Denotes measures that also appear in the Electric section of the Program, which means they qualify for the Multi-Measure Bonus. To receive the bonus, subm both the Electric and Gas measure on the same Application

MMM: Denotes measures that also appear in the Electric section of the Program, which means they qualify for the Multi-Measure Bonus. To receive the bonus, submit both the Electric and Gas measure on the same Application.

2015 Program Catalog

Specifications

are detailed for every

prescriptive measure

offered under the 2015 Program.





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.

2015 Program Catalog & Application



About our Application

Use it as a:

Reservation Application

and a

• Final Application

NOTE: Funds <u>must</u> be reserved for all custom projects and for certain prescriptive measures.

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

Program for Business	DTE Energy [®] Know Your Own Power [®]
2015 Program Applicatio	n
This Application is to be used for projects completed with a submitted during the 2015 Program Year (Jan. 1, 2015 - Nov	a Final Application
Section 1 – Application	
Incentive Application Checklist	2
Customer Information	
Contractor Information	
Third Party Payment Authorization	
Final Application Agreement	
Incentive Summary, Final Agreement Information	
and Account Holder Signature Page	b
Section 2 – Incentive Worksheets	
Lighting Incentive Worksheet	
HVAC Electric Incentive Worksheet	
Miscellaneous Electric Incentive Worksheet	
Process Electric Incentive Worksheet	
Food Service – Electric and Refrigeration Incentive Worksheet	20
HVAC Gas Incentive Worksheet	
Hot Water and Laundry Incentive Worksheet	
Insulation Incentive Worksheet	
Process Gas Incentive Worksheet	
Boiler/Furnace Tune-up Incentive Worksheet	
Food Service – Gas Incentive Worksheet	
Custom Measures Worksheet Instructions	
Prescriptive or Custom Project?	
Custom Incentive Worksheet	
Boiler/Furnace Tune-up Addendum	
How to Submit Your Application	
E-N-O-	
For New Construction and Major Renovation pro download our NC/MR Applications at dteenergy.	



The following items are required to successfully complete your Reservation and Final Applications and receive incentive funding:

- Application Checklist
- Customer Information Sheet
- Prescriptive and/or Custom Incentive Worksheets
- Final Application Agreement
- Supporting Information, including invoices and product specifications

Submittal Date	Application Number (if known)
Is this a revised Application? yes	0
completed forms and P.O. required documentation Detr with itemized invoices to: Fax: Pho Ema	Energy's Energy Efficiency Program For Business Box 11289 oit MI 48211 877.607.0744 ne: 866.796.0512 il: saveenergy@dteenergy.com o: dteenergy.com/savenow
Reservation Application	Final Application
Fill out this side when reserving incentives	Fill out this side when project is completed
Required Attachment Customer Information Contractor Information Form (customer) W9 Tax Information Form (customer) Michigan-Made Affidavit(s) (if applicable) Incentives Worksheets Lighting HVAC - Electric Miscellaneous Electric Food Service - Electric HVAC - Gas Hot Water & Laundry Insulation Process Gas Boiler/Furnace Tune-up	4 Contractor Information 4 3 W9 Tax Information Form (if different than customer) .4 3 Grant Party Payment Authorization* 4 Signed Final Application Agreement. 5 Manufacturers' Specifications Itemized Invoices Michigan-Made Affidavit(s) (if applicable) Incentives Worksheets 7 Lighting 7 10 HVAC - Electric .10 17 Miscellaneous Electric 18 20 Food Service - Electric 20 21 HvAC - Gas 22 223 Hot Water & Laundry. 23 24 Process Gas 24 25 Boiler/Furnace Tune-up 25
Food Service – Gas Custom. Boiler/Furnace Tune-up Addendum	
Reservation Application Date	Final Application Date
Expected Completion Date**	Actual Completion Date***
**Project funds will only be reserved for 90 days from date of Reservation	



Remember: Multiple Third-Party Authorization addendum

If there are multiple contractors working on the same project – particularly on Multi-Measure projects – the customer may authorize payments to any or all of them.

If so, use *must* use the <u>Multiple</u> <u>Payment Addendum</u>.

receiving the incentive payment. I als		d parties named on this form, and I understand that I will not be ird parties do not exempt me from the Program requirements cedures Manual.
Name of Applicant's Business		Application Number (if known)
Authorized by		
DTE Account Holder Signature		Date
≫ashongton naka pay≤3≥Ar		
Payee 1: CompanyiIndividual		Portion of project: S
Mailling Address		Percentage of project:%
City	State	ZIP
Taylor Transforment of the second sec	npany (O Corporation (Inc., PC, Elc.) (O) Tax Exen ax status please provide EITHER your EIN/Fed	and an initial fill an entited and and and an and and and and and
Pages Tax Information (45 with Tax Markes Othering Eability Cor	npany (O Corporation (Inc., PC, Elc.) (O) Tax Exen ax status please provide EITHER your EIN/Fed	
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Pagee 2: Company/Individual	npany O Corporation (Inc., PC, Elc.) O Tax Exen ax status please provide EITHER your EIN/Fed Socia	eral Tax ID or Social Security Number below: I Security Number Portion of project: \$
Pagee 2: Company/Individual Mailing Address	npany O Corporation (Inc., PC, Elc.) O Tax Exem ex status please provide EITHER your EIN/Fed OR	eral Tax ID or Social Security Number below: I Security Number Portion of project: \$%



For Prescriptive projects:

We have worksheets for every type of **prescriptive measure** offered in the program.

Simply complete all relevant areas.

In the interactive PDF Application, all calculations are made automatically.

And check the **Michigan-Made** box(es) for those measures that meet the bonus criteria.

	n Cookers		replacement and not a Michigan-Made bonus			r affidav
Ref#	Equipment Type	Incentive	Unit	# of Units	Total Incentive	
26-1	ENERGY STAR® Steam Cookers (5 Pan)	\$750.00	Cooker			
26-2	ENERGY STAR® Steam Cookers (6 Pan)	\$900.00	Cooker			
lvens	5					
Ref#	Equipment Type	Incentive	Unit	# of Units	Total Incentive	1
26-3	ENERGY STAR® Convection Ovens	\$300.00	Oven			
26-4	Combination Ovens	\$900.00	Over			
26-5	Rack Oven Single	\$400.00	Oven			
26–6	Rack Oven Double	Ubserver	Oven			
nuers	s/Griddles					
Ref#	Equipment Type	Incentive	Unit	# of Units	Total Incentive	-
26-7	ENERGY STAR® Fryer	\$225.00	Fryer		-	1 r
26-8	Large V yer	\$300.00	Fryer			1
20	ENERGY STAR® Griddles	\$200.00	Griddle			
-	allaneous				-	-
Ref#	Equipment Type	Incentive	Unit	# of Units	Total Incentive	1
26-10	Pre-Rinse Sprayers (Gas Water Heat)	\$30.00	Sprayer	Ft Hrs.		
26-11	Night Covers (Vertical)*	\$0.7°	Linear Ft. x Hrs/Day	FL HIS.		
		Incentive	Unit	# of Units	Total Incentive	-
Ref# 26–12	Equipment Type	Incentive \$0.25	Unit CFM reduced	# of Units	Total Incentive	
Ref#	Equipment Type			# of Units	Total Incentive	
26-12	Equipment Type			# of Units Michigan-N] (
Ref # 26-12	Equipment Type Commercial Kit Ken Ventilation Hood with Demand Control				Nade All Measu] (



For Custom projects:

Enter your information and the interactive PDF will automatically:

 Allocate the incentives proportionally to each eligible item for *Multi-Measure* calculations on Page 6 (you <u>must</u> check the category — i.e. Lighting)

• You must enter:

- A. Hours: before & after (including your method of calculation)
- **B.** kW (before and after)
- C. Current Energy Costs
- D. Times of operation
- E. Measure Costs
- If you perform these calculations manually, refer to the instruction sheet in the Application.

We'll cover custom Applications in more detail later.





Final Application Agreement The energy optimization measures listed within are being/have been installed in a qualifying time frame, at a qualifying facility and are not for resale. Additional Program terms and conditions can be found in the Policy and Procedures Manual available at dteenergy.com/savenow. I understand that in the event this Application received a reservation, that reservation is not a guarantee of payment. Incentive payment will be based upon the Final Application meeting the Program terms and conditions, and the availability of funds.

Selected terms and conditions include:

dteenergy.com/savenow

- Final Applications and all required documentation must be received within 60 days of project completion or by November 30, 2015, whichever comes first. Incomplete Applications, missing documents or Applications submitted after that date will result in the project being cancelled.
- 2. The Program has a limited budget. Applications will be processed until allocated funds are reserved or spent.
- 3. All equipment must be purchased and installed 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.
- Incentives may be taxable and the Applicant is solely responsible for the payment of any resulting taxes. Incentives will be reported to the IRS, unless the Applicant is exempt.
- 6. 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.
- 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.
- 8. For certain measures, the incentive amount will be determined based on the estimated energy savings. The Applicant may be required to provide documentation on energy savings calculations and assumptions. DTE Energy will make the final determination of the energy savings and thus the incentive amount to be paid.
- DTE Energy has no obligations regarding and does not endorse or guarantee any claims, promises, work or equipment made, performed or furnished by any contractors or equipment vendors that sell or install any energy efficiency measures.
- 10. Payment of incentives under the Program and/or evaluation of Applications for incentives shall not deem DTE Energy or any of its affiliates, employees or agents ("DTE Energy Parties") to be responsible for any work completed in connection herewith. Applicant fully releases DTE Energy Parties from any and all claims it may have against DTE Energy Parties in connection with this Application, the incentives or the work performed in connection with them. In addition, Applicant agrees to defend, indemnify and hold DTE Energy Parties harmless from and against any and all claims, losses, demands or lawsuits by any third parties arising in connection with this Application, the payment or nonpayment of incentives or any work performed in connection with them.
- 11. DTE Energy reserves the right to associate with your business and participation in the incentive Program for promotion and advertising purposes. See the Policies and Procedures Manual for more on promotional co-branding
- 12. 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 the Program Policy and Procedures Manual and agree to abide by those requirements. Furthermore, I concur that I must meet all eligibility criteria in order to be paid under this Program and not receive incentives from any other utility for the same project.

I certify that the information on this Application is true and accurate. 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.

DTE Energy Know Your Own Power*

V1:10/01/14

This **Final Application Agreement** sets out the Terms and Conditions of the Program and must be agreed to when submitting your Final Application.



The Boiler Tune-up Addendum

is now located at the end of the Application.

A customer/contractor can enter up to eight additional tune-ups on these pages.

If you have additional tune-ups, use the stand-alone addendum, too.

NOTE: You *must* enter all quantities by type on Page 20 in the Application.

Site Name	Date of Tune-up
Manufacturer Type (Hot Wate	Boiler, High/Low Pressure Stearn Boiler, Furnace, RTU)
Model Number	Annual Hours of Operation
Serial Number	Unit Input Capacity (MBH)
Company Performing Tune-up	Technician Performing Tune-up
Measure pre/post combustion efficiency using electronic flue gas analyzer	Check safety controls
Adjust combustion air flow and air intake as needed, reduce excessive stack temperatures	Check adequacy of combustion air intake Check for proper venting
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	Check Draft Control Dampers Clean and inspect burner nozzles

Include a copy of the combustion analyzer test (boilers only)

Site Name	Date of Tune-up
Manufacturer Type (Hot Water	r Boiler, High/Low Pressure Steam Boiler, Furnace, RTU)
Model Number	Annual Hours of Operation
Serial Number	Unit Input Capacity (MBH)
Company Performing Tune-up Measure pre/post combustion efficiency using electronic flue gas analyzer Adjust combustion air flow 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 test (boilers only)	Technician Performing Tune-up Check safety controls Check adequacy of combustion air intake Check for proper venting Check Draft Control Dampers Clean and inspect burner nozzles
	you perform at the same site. Use additional copies as needed. ze (at the same site) so the total incentives can be correctly calculated and entered.
Iteenergy.com/savenow	32 V1:10/01

Final Application



The Final Application

Review the Terms and Conditions to complete your **Final Application**.

Then this **Final Application Agreement** must be signed and submitted upon completion of your project.

Note: Check summary grid on this page to ensure that all of your worksheets have been entered correctly.

easure Category	Prescriptive Total	Custom Total	Michigan-Made Total	Multi-Measure Total (A + B)	Multi-Measure Percentage	
hting	160	(6)	IOIAI	10(e) (A + D.)	Fercentage	
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Submitting your Application



Electronically submit your **Reservation** Application and/or your **Final** Application.

Automatically:

- Your email will be launched,
- our email address will be inserted,
- the subject line will be entered and
- your Application will be attached.

At that point, attach any other supporting documentation.

Note: check the <u>blue boxes</u> to ensure that your incentives have been entered correctly.



V1:10/01/14

Submitting your Final Application

About your Final Application:

- Your Final Application must be submitted within 60 days of project completion, reservation end date or by Nov. 30, 2015 – <u>whichever</u> <u>comes first</u>.
- Final Applications submitted after Nov. 30, 2015, will be canceled.
- Failure to include all supporting documentation at the time of submission could result in cancellation of your Application.





2015 New Construction/ Major Renovation Application



About New Construction Application



About New Construction projects

- This is the separate Application for New Construction and Major Renovation projects.
 - This document contains both specifications and worksheets.
 - There is a separate Application for the LEED Certification Assistance Incentive.
- The electronic PDF versions of both are completely interactive.





The 2015 Application has three sections:

1. General Information

Program guidelines; customer, contractor, project information.
 The information pages are identical or similar to those in the main Application.

2. Systems Approach

- Specifications.
- Prescriptive worksheets.
 - o The worksheets will automatically calculate on the interactive PDF version.

3. LEED Whole Building Approach (new for 2015)

- Specifications.
- Worksheet.
 - o The worksheet will automatically calculate on the interactive PDF version.

• LEED Certification Assistance (new for 2015)

• This is a separate Application.

2015 New Construction/ Major Renovation Application



Use the same document to submit a **Reservation** Application and/or **Final** Application using the **interactive PDF version**

Automatically:

- Your email will be launched,
- our email inserted,
- the subject line entered and
- your Application is attached.

At that point, you also can attach any other documents to the email.



2015 New Construction/ Major Renovation Application



Certification Assistance:

 To apply for the \$1,500 incentive, you must complete this stand-alone document – which serves as both the Reservation and Final Application.

Energy Program fo	/ Efficiency or Business	- All	DTE Ene Know Your Own F	rgy ^{Power}
2015 F	rogram			
	I Applicatio	n		
for LEED C	Certification Assista	nce		
Certification Assista within 90 days of R	to be used as a Reservation and ance Incentive. The LEED Prelin Reservation Application. The Fin completion or Nov. 30, 2015, wh	ninary Review must be o al Application must be su	ompleted	
	on 1 - Application			
	entive Application Checlist stomer Information			
Cor	ntractor Information	4		
	rd Party Payment Authorization al Application Agreement	4		
	Account Holder Signature P	age5		
Secti	on 2 - Incentive V	Vorksheets		
LEE	ED Certification Worksheet	6		
How	w to Submit Your Application.			



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- Up-to-date funding gauges
- All Program documents:
 - Applications
 - Forms
 - Addenda
- Trade Ally Portal

Energy Efficiency Program for Business



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Home		

2015

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2014-1 2015 S Applic 2015 F Events/Registration

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Marketing Materials
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Videos

Energy

(now Your Own Po

Applications and Worksheets	Announcements	Trade Ally Portal	
	Watch for invitations to roll-out events 2014 Program funding is 100% fully allocated	To receive your login and password, cal or email your Program Outreach contact	
Program Catalog	2014 Program funding is 100% fully allocate		
Program Application	The 2015 Energy Efficiency Program for Business is now accepting Reservation Applications for projects that will be completed no sooner than Jan. 1, 2015.		
Program P-P	mail Applications will not be accepted until Jan. 1, 2015. No Reservation Applications will be	2014 Rebate Program Status	
Gas-only Application	accepted after Nov. 30, 2015; no Final Applications will be accepted after Nov. 30, 2015. Applications received after that date will be cancelled.	Paid	
New Construction App	Applications received alter that date will be cancelled.	62% Active 100% Fully Funded	
New Construction P-P	The new Program Year Catalog, Application and all related documentation can be downloaded from the list on this page.	100%	
	nomine lot on allo poge.	Electric Installations	
15 Gas multi-year Application	The most important changes this year involve Program caps:	Available funds paid	
Steam trap survey-repair cation	There are no Facility caps for either electric or gas projects. The Pariate sector for all this projects been been been and the \$250,000, and sector for the secto	as of Sept. 29, 2014	
	 The Project caps for electric projects have been increased to \$250,000; and caps for 		
Boiler Tune-up Bonus	gas projects have been increased to \$200,000. The Electric Customer cap is \$1 million	2014 Rebate Program Status	



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 Information about upcoming events – and the registration link for each.

DTE Energy Energy Efficiency Program for Business Know Your Own Po Events/Registration **Marketing Materials** Home Videos Applications and **Trade Ally Portal Program Events** Worksheets o receive your login and password, call o email your Program Outreach conta 2015 Program Catalog **Building Management Systems** 2015 Program Application When: Oct. 16, 2014 8:30-11:30 a.m. Where: Somerset Inn, Troy 2015 Program P-P 2014 Rebate Program Status To register: Click here 2015 Gas-only Application Paid 62% 100% Fully Funded 2015 New Construction App Active 2015 Program Kick Off 100% 2015 New Construction P-P When: Jan. 8 (tba) **Electric Installations** 2014-15 Gas multi-year Application Where: Somerset Inn, Troy Available funds paid To register: coming soon 2015 Steam trap survey-repair as of Sept. 29, 2014 Application 2015 Boiler Tune-up Bonus 2015 Program Kick Off 2014 Rebate Program Status 2015 Boiler-Furnace Tune-up When: Jan. 9 (tba) addendum 62% Where: Holiday Inn. Southoate 100% Fully Funded Active To register: coming soon 2015 Third-party Payment addendum 2015 Baseline wattage addendum **Gas Installations** Available funds paid 2015 Project invoice summary 2015 Program Kick Off as of Sept. 29, 2014 2015 W-9 form When: Jan. 14 (tba)



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> ...and follow along with our slide shows!



ENERGY EFFICIENCY PROGRAM FOR BUSINESS



QUESTIONS?



If you have questions, please contact our office

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Fax: 877-607-0744

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Website: dtetradeally.com



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