

DTE Energy's 2013 Energy Efficiency Program for Business Warehousing Technologies

NOTE: The 2014 Application is now available, and contains revised elements; please download from the DTE website: www.dteenergy.com/savenow

USE LESS.





Safety First





USE LESS. SAVE MORE.

In this presentation

- Program Overview
- Customers & Contractors
- About Designated Trade Allies
- About Incentives
- Warehousing Opportunities
- 2013 Program Catalog & Application





Program purpose

To help commercial and industrial contractors and customers*:

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

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

Program Overview





Program funding

- Michigan Public Act 295 (2008) requires investor-owned utilities, municipalities and rural electric cooperatives to institute energy optimization programs:
 - Funded through an "Energy Optimization Surcharge" applied to all ratepayers' bills
 - More than \$52 million paid to date
- DTE Energy customer benefits:
 - Lowers customer bills for the long term
 - Reduces energy demand throughout Michigan
 - Protects the environment by reducing the carbon footprint
 - Offsets the costs for investment in energy-efficient products

Program Overview



Since 2009

- More than \$52 million in cash rebates have been paid to Michigan businesses.
 - Electric: \$44.4million Gas: \$6.2 million
- More than 18,000 projects have been completed.
- More than 1,297 GWh and 3.3 million Mcf have been realized in energy savings.
- More than \$87 million has been realized in energy savings.







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: \$0.08/kWh and/or \$4/Mcf).
New Construction Major Renovation	 New facilities/major renovations of existing facilities or change of use projects. Adding load.















2012 Participation by Technology: Custom Electric Miscellaneous **HID to Fluorescent/** <1% LED/Induction Process **52%** 1% Motor/Air Compressor 1% Fluorescent **CFL/LED** HVAC upgrades 11% 2% 29% **Food Service/Refrigeration** 3%

















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.









Finding a Designated Trade Ally

- Click on: dteenergy.com/savenow
- Then click on the link at left: Find a Contractor



Program Overview





About Incentives







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.

How our program works







How our program works









About your Final Application:

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

Warehousing Opportunities







About Warehousing Opportunities





Savings possibilities

Electric Measures	<u>Savings</u>	<u>Source</u>
Interior HID upgrades	25% to 50%	Industry study
Exterior HID to LED	up to 75%	U.S. DOE
LED exit signs	up to 85%	ENERGY STAR [©]
Battery chargers for Hi-Los	30%	ENERGY STAR [©]
Natural Gas Measures		
Infrared heaters	up to 30%	Green Energy Ltd.
Loading dock door seals*	10% to 20%	Industry study
Destratification fans	20% to 30%	Industry study
Roof insulation	up to 30%	ASHRAE

*per 9-by-10-foot door

Warehousing Opportunities





<u>Savings possibilities</u>

Warehouse Lighting/Refrigeration Projects

PROJECT	INCENTIVES	SAVINGS [†]
HID to T-5 fluorescent lamps	\$4,300	\$3,221
HID to LED lighting w/occupancy sensors	\$27,829	\$20,872
400W HID to 200W LEDs	\$43,884	\$32,913
Cooler/freezers: variable-speed EMCs & controllers	\$11,898	\$8,924
Refrigeration chiller upgrades	\$6,225	\$4,668



[†]Estimated first-year savings reported by DTE Energy customers



USE LESS. SAVE MORE.

The 2013 Energy Efficiency Program for Business

Catalog & Application





To get an electronic Catalog and Application

- 1) visit: dteenergy.com/savenow
- 2) Then select the "Participate now" link (red circle).



*Requires Acrobat Reader





To get an electronic Catalog and Application

- 1) visit: dteenergy.com/savenow
- 2) Then select the "Participate now" link (red circle)
- 3) Click to on the icon to download the electronic Program
 Catalog or interactive PDF
 Application.



2013 Program Catalog & Application



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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.
- To get a print copy, contact us at: saveenergy@dteenergy.com or call us at 866-796-0512 (press option 3).

DTE Energy Energy Efficiency Program for Business 2013 Measures and Specfications Catalog











2013 Program Catalog & Application





About our Application

•Use it as a **Reservation** Application

<u>and</u>

•Use it as a Final Application

NOTE: Funds <u>must</u> be reserved for all custom projects and lighting projects that involve de-lamping.

We **encourage** you to reserve funds for all **prescriptive** projects.

Energy Efficiency Program for Business	Save energy. Save money. logether we w
2013 Program Application	
Section 1 – Application	
Incentive Application Checklist	
Contractor Information	
Third Party Payment Authorization	
Final Application Agreement	
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	
Boiler/Furnace Tune-up Incentive Worksheet	
Food Service – Gas Incentive Worksheet	
Custom Incentive Worksheet24	
How to Submit Your Application	



Check the Michigan-Made box only if the piece of equipment for which you are seeking an incentive meets the Michigan-Made borus specifications and you can provide the manufacturer afficiavit.

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

Simply complete all relevant areas.

HVAC - Electric Incentive Worksheet **Ground Source Heat Pumps** Qualifying Efficiency Incentive (per ton) (C) Size Category Equipment Type 17 EER \$22.50 s 135,000 Btu/h Ground-Source Heat Pump (GSHP) (11.3 tons) 19 EER \$30.00 17 EER \$150.00 Ground Source Heat Pump s 135,000 Btu/h Ireplacing Air Source Heat Pumpl (11.3 tons) **19 EER** \$175.00

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

HVAC Controls					
Measure Name	Size	Incentive	Unit	# of Units	Total Incentive
Programmable Thermostat (Air Conditioning)	ALL	\$20.00	Thermostat		
Chilled Water Reset with Pump on/off Control	ALL	\$5.00	1,000 Sq. R. Conditioned Space		
Setback-Setup Controls (Air Conditioning)	ALL	\$20.00	1,000 Sq. R. Conditioned Space		
Hotel Guestroom Energy Management Control (Air Conditioning)	ALL	\$30.00	Room		

HVAC Occupancy Sensor for Large Office Building

Measure Name	Size	Incentive	Unit	# of Units	Total Incentive	3
HVAC Occupancy Sensor, Large O'free Building w/CV System	ALL	\$30.00	1,000 Sq. R.			
HVAC Occupancy Sensor, Large O'fice Building w/VAV System	ALL	\$5.00	1,000 Sq. R.			

				Michigan-Made	All Measures
202	Subtotal HVAC - Electric Incentives - Page 2				
0102/000	Concentrate Encoure internates - Loge E				
-					
	To download an interactive application, go to: dteen	ergy.com/saver	low		11





For Custom projects:

• 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)
- Automatically calculate the *Michigan-Made* bonus for each' checked item

Custom Incentive Worksheet Must be submitted BEFORE project begins

See Instructions on Page 26 ("Custom Specifications"). Complete every blank box for each item you submit.	
Item 1	

				Desc	ription						Elec.	Category	Gas
	Harmon		fore Retrofit		Heree		After Ret	rofit		~		Lighting HVAC Miscellaneous Process Food Service Hot Water/Laundry Insulation	
	Hours used	peryear			Hoursus	ed per yea	r				<u> </u>		
	Service	Unit	Current Energy Co: (\$ per Unit)	t Annual Savin (Units/Year)(/			Calcu Incentive		Measur	e Cost	_	Aichigan-Made ped Measure Ince	ethe
	Bectric	kWh			\$0.	08						Iral Anarded Incentive	
	Natural Gas	Mcf			\$4	00							
	tem 2												
1				Desc	ription						Elec.	Category	Gas
		Be	fore Retrofit	011			After Ret	rofit				Lighting	0.85
1											lā.	HVAC	
												Miscellaneous Process	
											ŏ	Food Service	
	Hours used	Der wennen			Hoursus	ed per yea	r			_		Hot Water/Laundry Insulation	
											5		*
	Service	Unit	Current Energy Co (S per Unit)	t Annual Savin (Units/Year)(/			Calcu Incentive		Measur	e Cost	_	Aichigan-Made ped Measure Ince	ntive
ļ	Electric	kWh			\$0.	08						Total Awarded Incentive	
	Natural Gas	Mcf			\$4	00							
	item 3												
				Desc	ription						Elec.	Category	Gas
		Be	fore Retrofit				After Ret	rofit				Lighting	0.01
												HVAC Miscellaneous Process Food Service Hot Water/Laundry	
	Hours used	peryear				ed per yea						Insulation	
	Service	Unit	Current Energy Co: (\$ per Unit)	t Annual Savin (Units/Year)(/			Calcu Incentive		Measur	e Cost		Aichigan-Made ped Measure Ince	3
- 1	Electric	kWh			\$0	08						foral Awarded Incentive	
1	Natural Gas	Mcf			\$4	00							
	for that energy servi For natural gas item natural gas saving ** Total Custom Incenti	ioe. For electric s, it must be e ps, please co lves may not e lasure Cost of	warded for each energy cleans, it must be great qual to or greater than o etact us for assistance sceed 50% of the Total I the respective utility if t	er than or equal to one ne year. If one or mor e. See formula at right Measure Cost, he other utility	year and less than one of your items con	r equal to eig tains <u>both</u> e tayback Perio S	ht years. electric and		ck	To		re Cost Electricity/Notural Ga Total Avvan Incentive	ded
		Total Cu	stom Incentives	Electric									
0000000	(Includes value		on pages 27-29)	Natural Gas						1			
	To download a	n interact	tive application	go to: dteener	ov.com/saver	ow							27





The Final Application

Page 6 contains the Incentive Summary, Final Agreement Information and the Account Holder Signature area.

In the interactive PDF:

- Incentives are automatically entered from each completed page.
- Michigan-Made incentives are entered from each completed page – and then totaled and calculated for the 15% bonus.
- Prescriptive and Custom incentives for each category are totaled and, if no single category is more than 75% of the total, that figure is calculated for the 10% *Multi-Measure* bonus.

Incentive Summary, Final Agreement Information and Account Holder Signature Page

	Prescriptive Total	Custom Total	Michigan-Made	Multi-Measure	Multi-Measure	
Measure Category	(A)	(B)	Total	Total (A + B)	Percentage	
Lighting						
HVAC – Electric						
Misc. Electric						
Process Electric						
Food Service - Electric						
HNAC - Gas						
Hot Water & Laundry						
Insulation						
Process Gas						
Boiler/Furnace Tune-Ups						
Food Sarvice - Gas						_
Subtotals			C1	D1		D1
10% Multi-Measure Bonus				D2		D2
15% Michigan-Made Bonus			C2			C2
Incentive Subtotal						
Other Special Offers						
Other Special Offer - Code:						
Other Special Offer - Code:						
Other Special Offer - Code:						
Total Incentives Requested						

The figures in this table will self-populate in the electronic version of this Application. In a paper version, the values must be entered manually.

- For the Michigan-Made bonus:
- By category, enter only those incentives that meet the Michigan-Made criteria and total (C1)
- Then, multiply the total by .15 and enter into C2 and again in C2 at the far right
- For the Multiple-Measure bonus:
 1. Subtotal each category (A+B)
- Subtotal each category (A+B)
 Total all categories and enter in D1

i	To download an interactive application, go to: dteenergy.com/saveno
By signing this form, I agree to all terms and condi	
11 1 1	ipment has been installed. A customer signature is required for payment. Signed same as original applications received by mail. See Page 30 for submission instructions.
DTE Account Holder Signature	Date
DTE Account Holder Name (print)	DTE Account Holder Title
Total Project Cost	Actual Completion Date
DTE Project Number	
Final Agreement Information and Account Holder	Signature
2. Total all categories and enter in D1	incentive value in the spece(s) provideo.

\$0 in D2

the far right.

3. Then, calculate the percentage of each category against

4. Multiply D1 by .10 and enter into D2 and again in D2 at

Total all incentives in D1, D2 and C2 and enter in Incentives Subtotal

Enter any other Program Special Offer bonuses where indicated (you

must attach the worksheet from each offer) and manually enter the

the total (divide each category by D1). If no single category

is 75% or more of the total, proceed to Step 4; otherwise enter





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

Automatically:

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

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







If you have questions or would like help completing your Application, please contact our office

<u>Email</u> saveenergy@dteenergy.com

<u>Phone</u> 866-796-0512 (press option 3)

<u>Fax</u> 877-607-0744

<u>Website</u> dteenergy.com/savenow