



**2012**

# **Energy Optimization Program**

---

**Lighting / Non-Lighting Application**

**Application Due Date: March 31<sup>st</sup>, 2012**

# City of Marshall

## Energy Optimization Program

### Prescriptive Lighting / Non-Lighting Application

#### Instructions for Use:

**For complete Instructions, please refer to the Terms and Conditions**

**Step 1: Submit Completed Application for Approval:** Written approval (notice to proceed) must be obtained by the City of Marshall before purchase or installation of new equipment or systems. The following checklist will help you identify needed information to ensure quick analysis and approval of your application. Direct inquiries to 269.781.3985.

- Describe the project in one-or-two paragraphs
- List all known factors, assumptions and issues in calculations you provide for kW and kWh energy savings.
- Provide clear and logical step-by-step calculations detailing the estimated energy savings.
- Show all units in the calculations
- Provide a copy of the vendor proposal showing pricing detail.
- Spreadsheets are accepted and encouraged; however, state calculation methodologies separately and clearly.

**Step 2: Determine Eligibility:** Equipment must be new and proposed to be installed in a facility which is a City of Marshall electric customer.

**Step 3: Install Equipment.** New equipment must be installed and old equipment removed within 120 days of incentive approval.

**Step 4: Attach the following documentation with your completion form:**

- Itemized invoices including costs for equipment and installation labor.
- New equipment specification sheet(s).

**Step 5: Mail completed paperwork to :** City of Marshall  
Energy Optimization Program  
323 W. Michigan Ave.  
Marshall, MI 49068

## Prescriptive Lighting / Non-Lighting Measures Application

### Customers Information ( Please Print)

Name of Business / Customer		Phone	E-mail Address																	
Mailing Address		City	State	ZIP Code																
Installation Address		City	State	ZIPCode																
Utility Account Number	Hours of Operation:	Is this a 24-hour facility? Yes      No																		
Building Use - Please Check One: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Office</td> <td><input type="checkbox"/> Retail</td> <td><input type="checkbox"/> Warehouse</td> <td><input type="checkbox"/> Grocery/Supermarket</td> </tr> <tr> <td><input type="checkbox"/> Manufacturing</td> <td><input type="checkbox"/> Lodging</td> <td><input type="checkbox"/> Restaurant</td> <td></td> </tr> <tr> <td><input type="checkbox"/> School: <input type="checkbox"/> Elementary/Secondary</td> <td><input type="checkbox"/> College</td> <td><input type="checkbox"/> Healthcare:</td> <td><input type="checkbox"/> Clinic</td> </tr> <tr> <td><input type="checkbox"/> Other/Miscellaneous</td> <td></td> <td></td> <td><input type="checkbox"/> Hospital</td> </tr> </table>					<input type="checkbox"/> Office	<input type="checkbox"/> Retail	<input type="checkbox"/> Warehouse	<input type="checkbox"/> Grocery/Supermarket	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Lodging	<input type="checkbox"/> Restaurant		<input type="checkbox"/> School: <input type="checkbox"/> Elementary/Secondary	<input type="checkbox"/> College	<input type="checkbox"/> Healthcare:	<input type="checkbox"/> Clinic	<input type="checkbox"/> Other/Miscellaneous			<input type="checkbox"/> Hospital
<input type="checkbox"/> Office	<input type="checkbox"/> Retail	<input type="checkbox"/> Warehouse	<input type="checkbox"/> Grocery/Supermarket																	
<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Lodging	<input type="checkbox"/> Restaurant																		
<input type="checkbox"/> School: <input type="checkbox"/> Elementary/Secondary	<input type="checkbox"/> College	<input type="checkbox"/> Healthcare:	<input type="checkbox"/> Clinic																	
<input type="checkbox"/> Other/Miscellaneous			<input type="checkbox"/> Hospital																	
Fuel Type for Space Heating: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Natural Gas</td> <td><input type="checkbox"/> Electric</td> </tr> <tr> <td><input type="checkbox"/> LP (Propane)</td> <td><input type="checkbox"/> Oil</td> </tr> <tr> <td><input type="checkbox"/> Other</td> <td></td> </tr> </table>					<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Electric	<input type="checkbox"/> LP (Propane)	<input type="checkbox"/> Oil	<input type="checkbox"/> Other											
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Electric																			
<input type="checkbox"/> LP (Propane)	<input type="checkbox"/> Oil																			
<input type="checkbox"/> Other																				
How did you learn about the program? <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> My Utility</td> <td><input type="checkbox"/> Utility website</td> <td><input type="checkbox"/> Newspaper</td> <td><input type="checkbox"/> Community event</td> </tr> <tr> <td><input type="checkbox"/> Mail/Bill insert</td> <td><input type="checkbox"/> Contractor</td> <td><input type="checkbox"/> Other</td> <td></td> </tr> </table>					<input type="checkbox"/> My Utility	<input type="checkbox"/> Utility website	<input type="checkbox"/> Newspaper	<input type="checkbox"/> Community event	<input type="checkbox"/> Mail/Bill insert	<input type="checkbox"/> Contractor	<input type="checkbox"/> Other									
<input type="checkbox"/> My Utility	<input type="checkbox"/> Utility website	<input type="checkbox"/> Newspaper	<input type="checkbox"/> Community event																	
<input type="checkbox"/> Mail/Bill insert	<input type="checkbox"/> Contractor	<input type="checkbox"/> Other																		

### Contractor Information

Name of Installing Contractor (if applicable)	Address, City	State	Phone
---	---------------	-------	-------

### Certifications and Signature

I hereby certify that:

1. The information contained in this application is accurate and complete.
2. All rules of this incentive program have been followed.
3. I have read and understand the terms and conditions included with this document.

I agree to verification of equipment installation which may include a site inspection by a program or utility representative. I understand that I am not allowed to receive more than one incentive from this program on any one piece of equipment. I hereby agree to indemnify, hold harmless and release the utility from any actions or claims in regard to the installation, operation and disposal of equipment ( and related materials ) covered herein, including liability from any incidental or consequential damages.

Please sign and complete all information below.

Signature	Print Name	Date Installed	Date Submitted
-----------	------------	----------------	----------------

### Program Use Only

Date Received	Post Inspected?	Incentive Approved Amount:\$	Date Approved:
---------------	-----------------	---------------------------------	----------------

# Prescriptive Application Lighting / Non-lighting Measures

## Terms and Conditions

1. **Pre-approval requirements:** All custom efficiency projects require written approval (notice to proceed) by the City of Marshall before the customer takes any steps to purchase or install new equipment or systems. To qualify for an incentive, the approval date must precede any and all of the following: Purchase order date, equipment order dates, equipment ship date, invoice dates. Once approved, the applicant has 120 days to complete the project and submit an incentive application. Failure to complete the project within 120 days may result in loss of incentive payment. Written extensions may be granted contingent on scope, complexity and equipment lead time.
2. **Incentive Offer:** Projects must be implemented (completed) by December 31, 2012. Custom incentives will not be provided for projects with less than a 2-year simple payback or greater than a 7-year simple payback. Custom incentives are provided to cover no more than 40-percent of a project's cost and a maximum of \$7,500. This amount may be exceeded upon committee approval. Projects that are eligible for the prescriptive program do not qualify for the custom program. An original, signed application and invoices for materials and labor must be mailed to City of Marshall within **30 calendar days of installation (completion)**. Please keep a copy for you records.
3. **Proof of Purchase:** This application must have complete information and be submitted with **1) an invoice itemizing the new equipment purchased and 2) the manufacturer (OEM) specification sheets**. The invoice must indicate date of purchase, size, type, make, model and total project cost.
4. **Energy Savings:** Projects must result in reduced electric energy use due to improvement in the system efficiency; control upgrades may also qualify. Reduced electric use resulting from peak shaving, demand limiting, fuel switching, renewable energy, or operating schedule changes does not qualify.
5. **Compliance:**
  - a. All projects are expected to comply with federal, state, and local codes.
  - b. All equipment must be new or retrofitted with new components per the program specifications. Used or rebuilt equipment is not eligible for incentive. Existing equipment must be removed or permanently disconnected.
  - c. Equipment must meet specification requirements and be purchased and operating prior to submitting an incentive application.
  - d. Only one incentive will be granted for each project.
  - e. All projects must be a retrofit / replacement in existing building (not available for new construction).
  - f. If the project is in a leased building, the term of the lease must be at least five (5) years.
6. **Payment:** Once completed paperwork is submitted, incentive payments are usually made within **30** calendar days. Incomplete applications will delay payments or result in denial of application approval. The City of Marshall reserves the right to refuse payment and participation if the customer or contractor violates program terms and conditions. The City of Marshall must receive 100% of the energy savings for the rated life of the product(s) or for the period of three (3) years from receipt of rebate, whichever is less. If you do not provide the energy savings, if the facility in which the installed projects are located closes or ceases operation within the three (3) years from receipt of rebate or if you cease to be a customer of the City of Marshall during the three (3) years, you shall refund a prorated amount of rebate dollars based on the time installed.
7. **Inspection:** All projects require pre-inspections and post-inspections.
8. **Publicity:** The City of Marshall reserves the right to publicize your participation in this program.
9. **Program Discretion:** Incentives are available upon the committee discretion. This incentive is subject to change or terminate without notice at the discretion of The City of Marshall.
10. **Logo Use:** Customers or allies may not use The City of Marshall name or logo in any marketing, advertising, or promotional material without written permission.
11. **Disclaimers:** The City of Marshall
  - a. *Does not endorse any particular manufacturer, product, labor or system design by offering these programs;*
  - b. *Will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives;*
  - c. *Does not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor for detailed warranties)*
  - d. *Is not responsible for the proper disposal/recycling of any waste generated as a result of this project;*
  - e. *Is not liable for any damage caused by the installation of the equipment or for any damage caused by the malfunction of he installed equipment.*
12. **Eligibility:** These incentives are offered by the City of Marshall for electric customers only. For questions regarding eligibility please call **269.781.3985**.

<i>Commercial &amp; Industrial Measures - Lighting</i>	<i>Incentive</i>	<i>Unit</i>	<i>Total Items Purchased</i>	<i>Total Incentive</i>
Central Lighting Control	\$600	10,000 sq. ft.		
CFLs (or other new high efficiency lighting technology)	\$1.50	Lamp		
CFL High Wattage	\$8.00	Lamp		
CFL Specialty Lamp	\$4.00	Lamp		
CFL Fixture	\$20.00	Lamp		
CFL Reflector Flood	\$8.00	Lamp		
Cold Cathode	\$3.00	Lamp		
LED Recessed Downlight – Energy Star Qualified	\$20.00	Fixture		
Daylight Sensor controls	\$900.00	10,000 sq ft		
De-lamping	\$3.00-\$10.00	Lamp		
Exterior Lighting Bi-level Cont with override 150 to 1000 HID	\$50.00	Fixture		
Exterior HID replacement to 175W HID retrofit	\$45.00	Fixture		
Exterior HID replacement above 175W to 250W HID retrofit	\$65.00	Fixture		
Exterior HID replacement above 250W to 400W HID retrofit	\$120.00	Fixture		
Garage HID replacement to 175W HID retrofit	\$100.00	Fixture		
Garage HID replacement above 175W to 250W HID retrofit	\$150.00	Fixture		
Garage HID replacement above 250W to 400W HID retrofit	\$180.00	Fixture		
High Bay 3L T5HO Replacing 250W HID	\$35.00	Fixture		
High Bay 4LT5HO Replacing 400W HID	\$70.00	Fixture		
High Bay 6L T5HO Double fixture replace 1000W HID	\$120.00	Fixture		
High Bay 6L T5HO replacing 400W HID	\$30.00	Fixture		
High Bay Fluorescent 4ft Replacing 400W HID	\$50.00	Fixture		
High Bay Fluorescent 6ft Replacing 400W HID	\$75.00	Fixture		
High Bay Fluorescent 8ft Replacing 400W HID	\$50.00	Fixture		
High Bay Fluorescent 8ft Replacing 1000W HID	\$160.00	Fixture		
		<b>TOTALS:</b>		

<i>Commercial &amp; Industrial Measures - Lighting</i>	<i>Incentive</i>	<i>Unit</i>	<i>Total Items Purchased</i>	<i>Total Incentive</i>
42W 8 Lamp Hi Bay CFL	\$35.00	Fixture		
HPT8 4ft 1 lamp, replace T8	\$2.00	Fixture		
HPT8 4ft 2 lamp, replace T8	\$3.00	Fixture		
HPT8 4ft 3 lamp, replace T8	\$4.00	Fixture		
HPT8 4ft 4 lamp, replace T8	\$5.00	Fixture		
LED Exit Signs Electronic Fixtures -Retrofit Only	\$12.50	Fixture		
Low Watt T8 lamps	\$.75	Lamp		
LW HPT8 4ft 1 lamp, replace T8	\$5.00	Fixture		
LW HPT8 4ft 2 lamp, replace T8	\$10.00	Fixture		
LW HPT8 4ft 3 lamp, replace T8	\$15.00	Fixture		
LW HPT8 4ft 4 lamp, replace T8	\$20.00	Fixture		
Occupancy Sensors over 500 W	\$30.00	per sensor		
Occupancy Sensors under 500 W	\$50.00	per sensor		
Pulse Start Metal Halide retrofit only	\$30.00	Fixture		
T8 2ft 1 lamp	\$3.00	Fixture		
T8 2ft 2 lamp	\$4.00	Fixture		
T8 2ft 3 lamp	\$6.00	Fixture		
T8 2ft 4 lamp	\$8.00	Fixture		
T8 3ft 1 lamp	\$3.00	Fixture		
T8 3ft 2 lamp	\$4.00	Fixture		
T8 3ft 3 lamp	\$5.00	Fixture		
T8 3ft 4 lamp	\$7.00	Fixture		
T8 4ft 1 lamp	\$4.00	Fixture		
T8 4ft 2 lamp	\$7.00	Fixture		
T8 4ft 3 lamp	\$10.00	Fixture		
T8 4ft 4 lamp	\$13.00	Fixture		
T8 8ft 1 lamp	\$4.00	Fixture		
T8 8ft 2 lamp	\$7.00	Fixture		
Switching Controls for Multilevel Lighting	\$600.00	10,000 sq. ft.		
		<b>TOTALS:</b>		

<i>Commercial &amp; Industrial Measures - Lighting</i>	<i>Incentive</i>	<i>Unit</i>	<i>Total Items Purchased</i>	<i>Total Incentive</i>
AC < 65,000 (1ph 14 SEER Min; 3ph 11.6 EER Min)	\$6.00	Ton		
AC 65,000 – 134,000, 11 EER	\$15.00	Ton		
AC 135,000-239,000, 11 EER	\$15.00	Ton		
AC 240,000-759,000, 10 EER	\$10.00	Ton		
Air Cooled Chiller	\$30.00	Ton		
ASHP < 65,000 (1ph 14 SEER Min; 3ph 11.6 EER Min)	\$20.00	Ton		
ASHP 65,000 – 134,000, 11 EER	\$20.00	Ton		
ASHP 135,000-239,000, 11 EER	\$25.00	Ton		
ASHP 240,000-759,000, 10 EER	\$30.00	Ton		
Anti Sweat Heater Control	\$80.00	door		
Economizer	\$8.00	Ton		
GSHP < 135,000, 17 EER	\$50.00	Ton		
GSHP < 135,000, 19 EER	\$50.00	Ton		
Water Cooled Chiller < 150 Ton	\$25.00	Ton		
Water Cooled Chiller 150-300 Ton	\$40.00	Ton		
Water Cooled Chiller > 300 Ton	\$40.00	Ton		
Efficient Condenser	\$100.00	Ton		
Energy Management System	\$5.00	1,000 sq ft		
High Performance Glazing	\$30.00	100 sq ft glazing		
PTAC – 10% Improvement	\$5.00	Ton		
PTAC-HP – 10% Improvement	\$10.00	Ton		
Window Film	\$.30	100 sq ft glazing		
ENERGY STAR Room AC > 14,000 BTU/hr	\$25.00	Unit		
Setback Thermostat	\$20.00	Unit		
		<b>TOTALS:</b>		

<i>Commercial &amp; Industrial Measures – Other</i>	<i>Incentive</i>	<i>Unit</i>	<i>Total Items Purchased</i>	<i>Total Incentive</i>
Variable Frequency Drives	\$60.00	HP		
Vending Equipment Controller	\$50.00	Unit		
ENERGY STAR Commercial Solid Door Freezers less than 20ft3	\$75.00	Unit		
ENERGY STAR Commercial Solid Door Freezers 20 to 48 ft3	\$100.00	Unit		
ENERGY STAR Commercial Solid Door Freezers more than 48ft3	\$150.00	Unit		
ENERGY STAR Commercial Solid Door Refrigerators less than 20ft3	\$75.00	Unit		
ENERGY STAR Commercial Solid Door Refrigerators 20 to 48 ft3	\$100.00	Unit		
ENERGY STAR Commercial Solid Door Refrigerators more than 48ft3	\$150.00	Unit		
ENERGY STAR Hot Holding Cabinets Full Size	\$600.00	Unit		
ENERGY STAR Hot Holding Cabinets Half Size	\$300.00	Unit		
ENERGY STAR Hot Holding Cabinets Three Quarter Size	\$400.00	Unit		
ENERGY STAR Ice Machines less than 500 lbs per 24 hrs	\$300.00	Unit		
ENERGY STAR Ice Machines 500 to 1000 lbs	\$450.00	Unit		
ENERGY STAR Ice Machines more than 1000 lbs	\$1,000.00	Unit		
ENERGY STAR Steam Cookers 3 Pan	\$450.00	Unit		
ENERGY STAR Steam Cookers 4 Pan	\$600.00	Unit		
ENERGY STAR Steam Cookers 5 Pan	\$750.00	Unit		
ENERGY STAR Steam Cookers 6 Pan	\$900.00	Unit		
Pre Rinse Sprayers	\$25.00	Unit		
Guestroom Energy Management Control	\$65.00	Room		
Engineered Nozzles – Compressed Air	\$100.00	Unit		
Barrel Wraps Injection Mold and Extruders	\$1.00	Unit		
ECM Cooler and Freezer Motors	\$60.00	Unit		
ECM Case Motors	\$30.00	Unit		
ENERGY STAR Clothes Washer	\$50.00	Unit		
Smart Strip plug outlet	\$10.00	Unit		
Heat Pump Water Heater 10-50 MBH	\$1,500.00	Unit		
Heat Pump Water Heater 50-100 MBH	\$3,000.00	Unit		
Heat Pump Water Heater 100-300 MBH	\$5,000.00	Unit		
Photovoltaic system	\$1,600.00	Per kW		
Solar Water Heating System	\$450.00	Unit		
		<b>TOTALS:</b>		