



## EFFICIENCY UNITED C&I APPLICATION FOR THE CITY OF CRYSTAL FALLS

Welcome! Thank you for participating in this program. Please follow our simple four-step process to apply for and obtain incentives for your energy efficiency projects.

**STEP 1**     Pre-Approval Application: Complete the **General Information sections**.

- Choose the pages that apply to your specific project(s) and fill them out. *For example, if you are only working on a Prescriptive project, you only need to fill out a Prescriptive Application.*
- Attach the Customer and Contractor Information pages, appropriate Application pages and applicable supplementary documents and send them to us.
- Completing these items will submit your project for preapproval.

**STEP 2**     Confirmation of Reserved Funds: If your project meets the preapproval criteria, you will receive a letter via email. Please sign, date and send it back to us. *This step will reserve your funds.*

**STEP 3**     Complete Project: Install your new energy efficient equipment to complete your project.

**STEP 4**     Final Application: Complete the **Final Project Summary and Customer Agreement Form** (page 15), sign it and send it to us.

*Applications may be completed electronically or hand written. They can be submitted by FAX, email or mailed via US Mail. The contact/ mailing information is provided at the bottom of each page.*

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## TERMS AND CONDITIONS

### **ELIGIBILITY**

- Efficiency UNITED's energy efficiency incentives are offered to THE CITY OF CRYSTAL FALLS electric customer only while funding is available. Projects must be implemented (completed) by November 30, 2014. All application documentation must be submitted within 60 days of project completion or December 1, 2014.
- Projects must reduce electric usage through system efficiency improvements; control upgrades may also qualify. The following measures will not qualify: peak shaving, demand reductions, fuel switching, power generation, renewable energy, or operating schedule changes.
- Lighting must operate a minimum of 1,800 hours per year and other equipment must operate a minimum of 1,500 hours per year.

### **COMPLIANCE**

- All projects must comply with applicable federal, state and local laws, in addition to local building codes.
- All equipment must be new or retrofitted with new components per the program specification. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed or permanently disconnected.
- New equipment must meet specification requirements and existing equipment must be operational when the application is submitted. All projects must be retrofit/replacement installations in an existing building (not available for new construction).
- Only one incentive will be granted for each project.
- Customers can submit multiple projects in a calendar year; however, the incentive totals cannot exceed the incentive limit cap per year.
- If the project is in a leased building, the lease term must be at least three (3) years and a copy of the lease may be requested.
- Up to 24 months of utility usage information may be requested.

### **INCENTIVE CAPS**

- Incentives for Prescriptive measures may not exceed 75% of the total project cost, including materials, external labor, permits, equipment rental or disposal.
- Custom incentives will not be provided for projects with less than a 1-year or greater than an 8-year simple payback. Custom projects may not exceed 75% of the total project cost, including materials, external labor, permits, equipment rental or disposal.
- Incentives are limited to a customer cap of \$5,000 annually, while Program funding is available.

### **THE CITY OF CRYSTAL FALLS UTILITY DISCLAIMER**

- THE CITY OF CRYSTAL FALLS does not endorse any particular manufacturer, labor, or system design by offering these programs.
- THE CITY OF CRYSTAL FALLS will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives.
- THE CITY OF CRYSTAL FALLS does not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor for detailed warranties).
- THE CITY OF CRYSTAL FALLS is not responsible for the proper disposal/recycling of any waste generated as a result of this project.
- THE CITY OF CRYSTAL FALLS is not liable for any damage caused by the installation of the equipment or for any damage caused by the malfunction of the installed equipment.

### **PAYMENT**

Once completed paperwork is submitted, incentive payments are usually made within 6 to 8 weeks. Incomplete applications will delay payments or result in denial of application approval. Efficiency UNITED reserves the right to refuse payment and participation if the customer or contractor violates program terms and conditions. THE CITY OF CRYSTAL FALLS must receive 100% of the energy savings for the rated life of the product(s) or for a period of three (3) years from the receipt of incentive, whichever is less. If you do not provide the energy savings, the facility in which the installed projects are located closes or ceases operation within three (3) years from receipt of incentive, or you cease to be a customer of THE CITY OF CRYSTAL FALLS during the three (3) years, you shall refund a prorated amount of the incentive.

### **INSPECTION**

Program staff reserves the right to conduct pre-inspections and post-inspections of proposed and installed projects.

### **PUBLICITY**

THE CITY OF CRYSTAL FALLS and Efficiency UNITED reserves the right to publicize your participation in this program, unless you specifically request otherwise.

### **PROGRAM DISCRETION**

Incentives are available on a first-come, first-serve basis. Incentive amounts and offerings are subject to change or termination without notice at the discretion of THE CITY OF CRYSTAL FALLS.

### **LOGO USE**

Customers or allies may not use THE CITY OF CRYSTAL FALLS nor the Efficiency UNITED name or logo in any marketing, advertising, or promotional material without written permission.

### **RELEASE/INDEMNIFICATION**

Payment of rebates under the Program and/or evaluation of applications for rebates shall not deem Efficiency UNITED or any of its affiliates, employees, contractors or agents ("Efficiency UNITED Parties") to be responsible for any work completed in connection herewith. Applicant fully releases Efficiency UNITED Parties from any and all claims it may have against Efficiency UNITED Parties in connection with this application, the rebates or the work performed in connection with them. In addition, applicant agrees to defend, indemnify and hold Efficiency UNITED 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 non-payment of rebates, or any work performed in connection with them. The customer hereby releases THE CITY OF CRYSTAL FALLS from any and all liability arising from or connected with releasing the information to Efficiency UNITED set forth herein.



# Efficiency UNITED Commercial & Industrial Program Application for Energy Efficiency Incentives

# 2014

## GENERAL INFORMATION

CUSTOMER INFORMATION					
Company Name (as it appears on W-9)				Tax Payer ID (FEIN or SS#)	
Mailing Address		City	ST	Zip	Electric Utility
Installation Address		City	ST	Zip	Utility Account Number
Contact		Phone Number	Email		
Annual Hours of Operation		Fuel type for space heating			
		Natural Gas	Electric	LP (Propane)	Oil
Building Use		How did you learn about this program?			
Office	Restaurant	School – K-12	My Utility	Newspaper	
Retail	Grocery/Supermarket	School – College	Utility Website	Community Event	
Warehouse	Lodging	Other	Mail/ Bill Insert	Other	
Manufacturing	Healthcare		Contractor		

CONTRACTOR INFORMATION (IF APPLICABLE)				
Company Name				
Address			City	ST Zip
Contact		Phone Number	Email	

INITIAL APPLICATION PROJECT SUMMARY			
Prescriptive Lighting Incentive Total	Prescriptive Non-Lighting Incentive Total	Custom Incentive Total	Total Incentive
Total Prescriptive Project Costs		Total Custom Project Costs	
Estimated Project Completion Date(required)			



## PROJECT APPLICATION SUMMARY & PRE-APPROVAL PROCESS

### STEP 1 INITIAL APPLICATION CHECKLIST, CERTIFICATIONS FOR PRE-APPROVAL

Original applications must have complete information and be submitted for pre-approval with:

- The entire completed application
- An itemized quote from the chosen contractor and/or vendor for the project which includes a separate line item for each incentive measure, and includes the quantity, size, type, make, and model of proposed items and labor costs, if applicable. **Note: internal labor cannot be included in the project cost**
- The manufacturer (OEM) specification sheets for all items to be installed as described in the application
- A copy of one months' electric utility bill for prescriptive projects or 12 consecutive months' worth of electric bills for custom projects. (The first two pages are sufficient if they include a summary of energy use and charges.)
- General Information (page 3) and the appropriate pages for your project:
  - Lighting projects (pages 5 to 7)
  - Non-lighting projects (pages 8 to 12)
  - Agricultural projects (page 11)
  - Custom projects (pages 13 to 14)

**Application submittal options found in Step 4**

### STEP 2 PRE-APPROVAL & FUNDS RESERVATION

If your project meets the pre-approval criteria, the customer listed on this application will receive a letter via email (or standard mail if email is unavailable) indicating that the funds have been reserved for this project.

- Incomplete applications will cause delays.
- This letter must be signed and returned within 10 days.
- From the date of issuance of this letter, you will have 90 days or until November 30, 2014 to complete this project and submit all final documentation. Applicant may submit a written request for one 30 day project completion extension.
- After 90 days or November 30, 2014, this application will expire and your reserved incentive will be forfeited.

### STEP 3 EQUIPMENT INSTALLATION

After receiving pre-approval notification, install your new equipment and remove the old equipment. Only new products which are exact product types listed in this form are eligible for Prescriptive incentives. Measures preceded by NC may be used for new construction projects. Measures preceded by Ag may be used for Agribusiness projects.

### STEP 4 FINAL APPLICATION SUMMARY

1. Complete the final summary form
2. Applicant must participate in exit interview with Efficiency UNITED staff to identify incentive opportunities and document a Joint Energy Efficiency Plan (JEEP)
3. Submit application form and supporting documents to Efficiency UNITED via one of the following:

**Email to:** [ciapplications@clearesult.com](mailto:ciapplications@clearesult.com)

**FAX to:** 517-580-5160

**Mail to:** Efficiency UNITED - Commercial and Industrial Energy Efficiency Program  
3100 West Road, Building 3, Suite 200, East Lansing, MI 48823



**PRESCRIPTIVE LIGHTING APPLICATION**

<b>A. COMPACT FLUORESCENT and LED FIXTURES</b>					
<b>Existing</b>		<b>Proposed</b>	<b>Incentive per Unit</b>	<b>Qty</b>	<b>Total Incentive</b>
<b>CFLs</b>					
Ag	Incandescent light bulb	CFL bulb (<=30W)	\$1.00		
Ag	Incandescent light bulb	CFL bulb (31W – 115W)	\$4.00		
Ag	Incandescent light bulb	Specialty CFL (spot, 3-way, dim)	\$2.00		
Ag	Incandescent fixture	Permanently wired pin-based CFL fixture	\$20.00		
<b>LEDs</b>					
NC,Ag	Incandescent light 20-100W	LED Lamps (<20W, screw-in)	\$8.00		
NC,Ag	Incandescent down light fixture	LED down light fixture (<20W; new fixture or hardwired retrofit kit)	\$15.00		
Ag	Retrofit of exiting sign	LED exit sign (new fixture or hardwired retrofit kit)	\$12.00		
NC,Ag	Retrofit of existing signals (all lamps must be replaced)	LED traffic signal	\$15.00		
<b>SECTION A TOTAL</b>					

<b>B. HP T8 FLUORESCENT SYSTEMS</b>					
<b>Existing</b>		<b>Proposed</b>	<b>Incentive per Unit</b>	<b>Qty</b>	<b>Total Incentive</b>
<b>High Performance T8 Fluorescent Systems (CEE Qualified Only)</b>					
<p>Retrofits of T12s with CEE Qualified High Performance T8 systems. Lamps and ballasts used must be listed on the CEE specifications for High Performance T8 Systems (see "Commercial Lighting" at <a href="http://www.cee1.org">www.cee1.org</a>).</p> <p>Replacement fixtures or lamp and ballast retrofits are eligible. For standard T8 to HPT8 replacement/retrofit, use the custom application form. <b>Ballast and bulb part number must appear on quote and invoice.</b></p>					
<b>a) 4ft</b>					
NC,Ag	T12 1 lamp 4ft	HP T8 1 lamp 4ft	\$4.00		
NC,Ag	T12 2 lamp 4ft	HP T8 2 lamp 4ft	\$6.00		
NC,Ag	T12 3 lamp 4ft	HP T8 3 lamp 4ft	\$11.00		
NC,Ag	T12 4 lamp 4ft	HP T8 4 lamp 4ft	\$12.00		
<b>b) HPT8 Reduced Wattage</b>					
<p>Retrofits of T12 or Standard T8 lighting to Reduced Wattage HPT8 lighting requires a ballast and lamp retrofit to RW HPT8 components listed in the RW HPT8 "approved" database found at <a href="http://www.cee1.org/com/com-lt/RW-lamps-ballasts.xls">www.cee1.org/com/com-lt/RW-lamps-ballasts.xls</a></p>					
NC,Ag	T12 1 lamp 4ft	HP T8 1 lamp 4ft – RW	\$5.00		
NC,Ag	T12 2 lamp 4ft	HP T8 2 lamp 4ft – RW	\$7.00		
NC,Ag	T12 3 lamp 4ft	HP T8 3 lamp 4ft – RW	\$13.00		
NC,Ag	T12 4 lamp 4ft	HP T8 4 lamp 4ft – RW	\$15.00		
<b>c) De-Lamping</b>					
<p>Permanent lamp removal within an existing fixture (e.g., a T12 4 lamp fixture to a 3 lamp CEE1 approved system retrofit, qualifies for a 3 lamp to 3 lamp replacement AND 1 de-lamping for each fixture.) Reducing the quantity of fixtures in a space does not qualify.</p>					
Ag	T12 4ft De-lamping	Permanent lamp removal combined with HPT8 ballast and lamp retrofit	\$4.00		
<b>SECTION B TOTAL</b>					



C. HIGH BAY LINEAR FLUORESCENT FIXTURES					
Replacement of a specific wattage High Intensity Discharge (HID) - (metal halide, mercury vapor, and high pressure sodium only) or incandescent fixtures with a LED High Bay fixture, HP T8 32W or T5HO high-bay fluorescent fixtures with electronic ballasts qualify for \$0.30 per Watt reduced. See terms and conditions for custom incentive application guidelines. Lamps and ballasts used must be listed on the CEE specifications for High Performance T8 Systems (see "Commercial Lighting" at <a href="http://www.cee1.org">www.cee1.org</a> ). <b>LED must be DLC listed.</b>					
Description	Wattage /Fixture*	Qty	Total Watts	Watts Saved	Incentive
Existing					
New					
Existing					
New					
Existing					
New					
<b>SECTION C TOTAL</b>					

All 8ft T12 systems must be run as a custom project. The baseline wattage must be the same as an 8ft T8 system.

LIGHTING WATTAGE GUIDELINES FOR CALCULATIONS					
High Bay System	Input Watts	HP T5 and T8 Systems	Input Watts	Misc. Systems	Input Watts
HID 50W	65	F30T8 2lamp	56	T12 4ft 1lamp 34W	50
HID 75W	95	F32T8 2lamp	59	T12 4ft 2lamp 34W	82
HID 100W	130	F32T8 4lamp	142	T12 4ft 3lamp 34W	115
HID 150W	190	F32T8 6lamp	182	T12 4ft 4lamp 34W	144
HID 175W	205	F32T8 8lamp	312	T12 4ft 1lamp 40W	50
HID 200W	240	F32T8 10lamp	366	T12 4ft 2lamp 40W	86
HID 250W	295	T5 2lamp	48	T12 4ft 3lamp 40W	136
HID 400W	455	T5 4lamp	96	T12 4ft 4lamp 40W	172
HID 750W	850	T5HO 3lamp	162	T12 U-tube 2lamp	85
HID 1000W	1080	T5HO 4lamp	216	T8 8ft 1lamp	60
		T5HO 6lamp	324	T8 HO 8ft 1lamp	85
		T5HO 8lamp	486	T8 8ft 2lamp	109
		T5HO 10lamp	608	T8 HO 8ft 2lamp	160
		T5HO 12lamp	730		



**D. LIGHTING CONTROLS**

Occupancy Sensors: Rapid or programmed start ballasts are required for fluorescent fixtures. Socket based sensors do not qualify. Multiple sensors controlling the same fixture do not qualify.

Daylight Sensor Controls: Installation of daylight sensor controls in spaces with reasonable amounts of sunlight exposure and areas where task lighting is not critical. The controls can be on/off, stepped, or dimming. The on/off controller should turn off artificial lighting when the interior illumination meets the desired indoor lighting levels. The stepped controller should dim the lights by 50% when the interior illumination levels reach 50% of the desired lighting levels. Dimming controllers should dim the lighting levels proportionally to the amount of sunlight. Controllers are required to be commissioned in order to ensure proper sensor calibration and energy savings. Incentives are paid based on the square footage of lighting area controlled. The floor plan and control schedule must be submitted for pre-approval.

Central Lighting Controls: All central lighting controls must manage lighting operation in an area of **at least 10,000 square feet**. The occupancy schedule must be considered when programming the system. Systems that utilize time clocks, package programmable relay panels, and building automation are eligible for incentives. Incentives for occupancy sensors or daylight sensor controls cannot be received for the same fixtures. Incentives are paid based on the square footage of lighting area controlled. Control schedule and floor plans are required for pre-approval showing functional control and reduction in operating time due to precise automatic control.

Switching Controls for Multilevel Lighting: This measure should use occupancy sensors and/or daylight sensors to reduce the lighting levels of controlled fixtures when appropriate. If applying for multilevel lighting controls, incentives for occupancy sensors and daylight sensor controls cannot be received on the same fixtures. Incentives are paid based on the square footage of lighting area controlled. Floor plan and lighting schedule are required for pre-approval.

Exterior Lighting Bi-Level Control: Installation of controls on exterior HID fixtures to reduce the input wattage by a **minimum of 50%** when area is unoccupied. The fixture must have electronic ballast capable of reducing power levels and be capable of returning fixture to full light output for security reasons. The controls can be on/off, dimmer, or hi-lo ballast controls. This measure is applicable to exterior fixtures that are on throughout the night.

Description		Incentive Per Unit	Quantity	Total Incentive
Ag	Occupancy sensor (<500W)	\$20.00	Sensor	
Ag	Occupancy sensor (>500W)	\$50.00	Sensor	
NC	Daylight sensor controls	\$0.08	ft <sup>2</sup>	
	Central lighting controls	\$0.06	ft <sup>2</sup>	
	Switching controls for multi-level lighting	\$0.05	ft <sup>2</sup>	
NC,Ag	Exterior lighting bi-level control	\$40.00	Sensor	
<b>SECTION D TOTAL</b>				

<b>PRESCRIPTIVE LIGHTING TOTAL (A-D)</b>	
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PRESCRIPTIVE NON-LIGHTING APPLICATION

<b>A. HVAC SYSTEMS</b>						
<b>Description</b>		<b>Size</b>	<b>Min. ARI Efficiency</b>	<b>Incentive per Unit</b>	<b>Quantity</b>	<b>Total Incentive</b>
<b>Central Packaged &amp; Split Air Conditioning (Including RTUs)</b>						
NC	<65 MBH (1ph)	<5.4 tons	14.0 SEER	\$10.00	tons	
NC	<65 MBH (3ph)	<5.4 tons	11.6 EER	\$10.00	tons	
NC	65 – 134 MBH	5.4 – 11.3 tons	11.5 EER	\$10.00	tons	
NC	135 – 239 MBH	11.4 – 20.0 tons	11.5 EER	\$10.00	tons	
	240 – 759 MBH	20.1 – 63.3 tons	10.5 EER	\$10.00	tons	
<b>Air Source Heat Pumps (including RTUs)</b>						
	<65 MBH (1ph)	<5.4 tons	14.0 SEER	\$10.00	tons	
	<65 MBH (3ph)	<5.4 tons	11.6 EER	\$10.00	tons	
	65 – 134 MBH	5.4 – 11.3 tons	11.5 EER	\$10.00	tons	
	135 – 239 MBH	11.4 – 20.0 tons	11.5 EER	\$10.00	tons	
	240 – 759 MBH	20.1 – 63.3 tons	10.5 EER	\$10.00	tons	
<b>Chillers (HVAC only)</b>						
	Air Cooled	All sizes	≤1.2 kW/ton full load	\$20.00	tons	
	Water cooled	<150 tons	≤0.79 kW/ton full load, ≤0.49 kW/ton part load (IPLV)	\$20.00	tons	
	Water cooled	150-300 tons	≤0.63 kW/ton full load, ≤0.44 kW/ton part load (IPLV)	\$20.00	tons	
	Water cooled	>300 tons	≤0.58 kW/ton full load, ≤0.44 kW/ton part load (IPLV)	\$20.00	tons	
<b>PTAC/Miscellaneous HVAC</b>						
	PTAC – 10% Improvement		N/A	\$10.00	Unit	
	PTAC HP – 10% Improvement		N/A	\$25.00	Unit	
<b>Ground Source Heat Pumps</b>						
	<135 MBH	N/A	17 EER	\$15.00	tons	
	<135 MBH	N/A	19 EER	\$30.00	tons	
<b>SECTION A TOTAL</b>						





**B. HVAC CONTROLS & BUILDING ENVELOPE**

DCV: Installation of carbon dioxide sensor controls to modify the percentage of outside air based on variable occupancy levels. Only buildings with cooling applications are eligible where temperatures are kept between 65° and 75°F during occupied hours. Systems must require ≥10% fresh air (as a proportion of supply air). CO<sub>2</sub> sensors must be installed in conjunction with fully functioning air side economizers. Dual temperature air-side economizers with zone-level CO<sub>2</sub> sensors for rooftop units qualify. For all built up systems, return system CO<sub>2</sub> sensors are required. Controlled space must meet the minimum requirements of the current ASHRAE 62 standard, all local building code, and manufacturer's recommendations. The incentive is per sq. ft. of building area controlled. Floor plan and control schedule are required for pre-approval.

Setback/Setup Controls: Installation of setback controls using an EMS. Existing controls must not have setback capabilities, e.g. programmable thermostats to EMS retrofits are not eligible. Setbacks using programmable thermostats are not eligible. Setback/setups must be a min. of 8°F. The incentive is per sq. ft. and cannot be combined with the EMS incentives. Floor plan and control schedule are required for pre-approval.

Economizer: Installation of an air-side economizer to existing HVAC system with fixed outdoor air settings. The incentive is per refrigeration ton of the system to be upgraded with the economizer.

EMS: The EMS measure covers total buildings and systems designed specifically for chilled water reset controls and seasonal on/off controls for chilled water, hot water, and condenser water pumps. Total building systems must control at least 75% of the defined space. Systems must be centrally controlled include air handlers, roof top units (heating and cooling) and central heating and cooling systems. The incentive is per sq. ft. and cannot be combined with incentives for Chilled Water Reset. Floor plan and control schedule are required for pre-approval.

Chilled Water Reset: Retrofit of existing chilled water systems with reset controls that allow the chilled water temperature to increase by at min. 5°F during periods of low load. Upgrades must include hardware installation for controls and the system must include an economizer. The incentive is per capacity of the chiller affected by the upgrade and cannot be combined with incentives for EMSs.

Guest Room Energy Management: Installation of sensors that control PTAC's, heat pumps, and other HVAC units for individual hotel guest rooms. The sensors must be controlled by automatic occupancy detectors; sensors controlled by a front desk system are not eligible. Replacements or upgrades to existing occupancy-based controls are not eligible as a prescriptive incentive. The incentive is per guest room controlled, not per sensor. For multi-room suites, the incentive is available per room controlled, if a sensor is installed in each room.

Cool Roof: Cool roofs, also known as reflective roofs, are roof surfaces designed to reflect radiation from the sun, reducing heat transfer into the building. Although there is no industry-wide definition of a cool roof, the EPA's Energy Star Roof Products Program has established a minimum standard, requiring that cool roof products have an initial reflectance of at least 0.65, and a reflectance of at least 0.5 after three years of weathering.

Description	Incentive per Unit	Quantity	Total Incentive
<b>HVAC Controls</b>			
Demand Control Ventilation	\$0.035	ft <sup>2</sup>	
Setback/setup controls (air conditioning)	\$0.025	ft <sup>2</sup>	
Economizer	\$8.50	ton	
Energy Management System (for chilled water)	\$0.05	ft <sup>2</sup>	
Cool Roof	\$0.65	ft <sup>2</sup>	
Chilled water reset	\$0.50	ton	
NC Guest room energy management, electric heating	\$55.00	guest rm.	
<b>SECTION B TOTAL</b>			



<b>C. GROCERY/RETAIL TECHNOLOGY AND MISCELLANEOUS</b>				
<b>Description</b>		<b>Incentive per Unit</b>	<b>Quantity</b>	<b>Total Incentive</b>
NC	Vending Equipment Controller (for cold beverage machines)	\$50.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Refrigerator (<15 ft <sup>3</sup> )	\$25.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Refrigerator (15 - 30 ft <sup>3</sup> )	\$40.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Refrigerator (30 - 50 ft <sup>3</sup> )	\$60.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Freezer (<15 ft <sup>3</sup> )	\$50.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Freezer (15 - 30 ft <sup>3</sup> )	\$75.00	unit	
NC,Ag	ENERGY STAR Commercial Solid Door Freezer (30 - 50 ft <sup>3</sup> )	\$125.00	unit	
NC,Ag	ENERGY STAR Ice Machines (<500 lbs.)	\$75.00	unit	
NC,Ag	ENERGY STAR Ice Machines (500 - 1,000 lbs.)	\$115.00	unit	
NC,Ag	ENERGY STAR Ice Machines (1,000 lbs.)	\$160.00	unit	
NC	Pre Rinse Sprayers < 1.6 gpm (electric water heating required)	\$50.00	unit	
NC	LED Grocery Case Lighting - Must be a direct replacement of fluorescent case lighting	\$40.00	unit	
NC	Occupancy Sensor for LED Case Lighting	\$15.00	door	
Ag	Walk-in Cooler/Freezer ECM replacing Shaded Pole	\$30.00	motor	
NC,Ag	Walk-in Cooler/Freezer ECM replacing Permanent Split Capacitor Motor	\$45.00	motor	
	Case Cooler/Freezer ECM replacing Shaded Pole or PSC Motor	\$40.00	motor	
NC,Ag	Cooler Strip Curtains -Must be put in a doorway of a walk-in cooler where no curtains previously existed, or current curtains are exceptionally deteriorated	\$2.00	ft <sup>2</sup>	
NC,Ag	Freezer Strip Curtains	\$10.00	ft <sup>2</sup>	
Ag	New Cooler/Freezer Door Gaskets - Replacement of deteriorated and leaky gaskets	\$2.00	ft.	
	Cooler Night Covers - Covers must be utilized on an open refrigerated case a minimum of 6 hours per day. <i>Incentive based on (\$ x hrs. x lineal ft.)</i>	\$1.00	hrs ft.	
	Anti-sweat Heater Controls -Controls must monitor relative humidity and turn off anti-sweat heaters during low humidity conditions	\$100.00	door	
<b>SECTION C TOTAL</b>				



**AGRIBUSINESS APPLICATION**

Agribusinesses with a commercial account are eligible for these measures and Prescriptive measures with an Ag preceding them.

The Custom application should be used for measures not found in the Prescriptive sections. All Custom eligibility requirements apply.

All pages whether Prescriptive or Custom that are applicable to the project should be included when submitting the Agribusiness Application to Efficiency UNITED.

<b>D. AGRICULTURAL EQUIPMENT</b>			
<b>Description</b>	<b>Incentive per Unit</b>	<b>Quantity</b>	<b>Total Incentive</b>
Timer for Engine Block Heater Timer should be set to turn on < 2 hours prior to start-up time	\$30.00	unit	
Low-energy Livestock Waterer or Fountain 250 Watts - Maximum combined heating element wattage Minimum 2-inch insulation	\$100.00	unit	
Commercial Electric Water Heater Installed in Dairy Milk Houses must be >= EF.90 Must have thermostats that are adjustable up to 180F	\$275.00	unit	
Heat Recovery Tank (no heating element) Primary water heating must be by electric Refrigeration compressor must have accumulator pump down	\$375.00	unit	
Milk Pre-cooler New pre-cooler installations only. Must be plate-type heat exchanger. Limit one incentive per farm	\$125.00	unit	
Variable Speed Controller for Vacuum Pump Must be blower type pump. Limit one incentive per farm	\$125.00	unit	
Variable Speed Milk Pump Must have pre-cooler to be eligible for this incentive. Minimum daily milk production ≥ 5,000 lbs.	\$275.00	unit	
Scroll Compressor Replacement Replacing reciprocating units only	\$25.00	Hp	
High Speed Exhaust/Circulation Fan 24" – 35" fan blade diameter	\$20.00	Unit	
High Speed Exhaust/Circulation Fan 36" – 47" fan blade diameter	\$35.00	Unit	
High Speed Exhaust/Circulation Fan 48" – 71" fan blade diameter	\$65.00	Unit	
High Volume Low Speed Fans (HVLS) Minimum 20 ft. diameter	\$400.00	unit	
<b>SECTION D TOTAL</b>			



**E. VARIABLE FREQUENCY DRIVES**

Drives must be used in process pumping or air handling (HVAC) applications. VFDs must be automatically controlled by a variable signal and have load diversity that will result in savings through motor speed variation. Redundant units, back-up units, and replacements of existing VFDs do not qualify.

Application		Incentive	Restrictions		
NC	HVAC – Fan Operations	\$60/hp	No limit to motor size. Annual hours must be >1800		
NC	HVAC – Pump or Process Pump	\$150/hp	No limit to motor size. Annual hours must be >1800		
	Process – Fan Operations	\$60/hp	Motor must be ≤ 50hp. Annual hours must be >2000		
NC,Ag	Process Pumping Operations	\$60/hp	Motor must be ≤ 50hp. Annual hours must be >2000		
VFD Application	Existing Motor Input Controls	Motor HP	Incentive per HP	Qty	Total Incentive
<b>SECTION E TOTAL</b>					

**F. INDUSTRIAL PROCESS EQUIPMENT**

Description	Incentive per Unit	Qty	Total Incentive
NC Compressed Air Engineered Nozzle - must replace open tube assemblies connected to a compressed air system. Nozzle diameter must be (1/8 – 1/2 in.)	\$100.00		
Barrel Wraps for Injection Molding Machines - Insulated blankets strapped around the barrel of extruder or injection molders are eligible. Insulation must be installed on previously un-insulated barrels - <i>Incentive is per sqft</i>	\$25.00/sqft		
<b>SECTION F TOTAL</b>			

**PRESCRIPTIVE NON-LIGHTING TOTAL (A-F)**

## CUSTOM APPLICATION

**Written pre-approval notice MUST be obtained by Efficiency UNITED before removing existing equipment and purchasing new equipment. Pre/Post Inspections are required for Custom Projects.**

### A. COMPRESSED AIR LEAK AUDIT + REPAIR

Incentives are available for a compressed air system leak audit and the repair of at least 50% of the leaks documented. The audit must be performed by a qualified, independent contractor, while the leak repairs can be completed in house or by a contractor. Evidence of needed leak repairs, including the results of the audit and a spreadsheet detailing each leak location, estimated leak volume, and date of inspection must be presented with the initial application. **Pre-approval must be received before leak repairs can be started.**

Upon project completion, the customer is responsible for documenting leak repairs using leak repair tags and a spreadsheet that outlines location, date of repair, leak volume repaired, and person who completed each repair. Leak repair tags are expected to be left in place for 30 days for prospective EU post-inspection and repair verification.

**Incentives are \$10.00 per hp for a compressed air leak audit and 75% of the repair costs of documented leaks. Incentives for leak audit and repairs are capped at \$5,000.**

Example 1: 150 hp air compressor system with \$3,000 leak repair costs

Audit incentives = 150hp x \$10 = \$1,500  
 75% repair cost = \$3,000 x 0.75 = \$2,250  
 Total incentive = \$3,750

Example 2: 150 hp air compressor system with \$8,000 leak repair costs

Audit incentives = 150hp x \$10 = \$1,500  
 75% repair cost = \$8,000 x 0.75 = \$6,000  
 Total incentive, capped = \$5,000

Audit Results		Project Completion Results	
# of compressors		Leak Detection Method	
Total HP		Average SCFM	
Current Compressor Control Method		Leaks Repaired (SCFM)	
System Size (SCFM)		Reduction in Leak %	
Annual Operating Hours		Final Audit Repair Cost	
Average SCFM		Audit Incentive (\$10/hp)	
Leaks Detected (SCFM)		Repair Incentive (75% of leak repair)	
<b><i>CUSTOM SECTION A TOTAL</i></b>			

A complete compressed air audit is recommended for all commercial and industrial customers to determine current energy costs related to their compressed air system and potential steps for reducing energy usage. If projects result from recommendations listed on a compressed air audit and fall under the Custom or Prescriptive incentive application guidelines, customers are encouraged to submit a separate application for consideration. Any customer wishing to submit a Custom application for incentives beyond leak repair must have an audit completed by a qualified, independent contractor which includes the following items:

- On-site data collection of the compressed air equipment, control strategies, end-uses, and power and pressure logging for a minimum of seven days.
- Major compressed air leak detection survey including: identification, tagging, and quantification of air leaks.
- Identification and cost/benefit analysis of energy savings opportunities.
- Written report of audit findings and recommendations.



## B. OTHER CUSTOM MEASURES

On a separate sheet(s) of paper, please:

1. Describe the project in one or two paragraphs. Please explain why you are selecting the equipment being installed.
2. Include copies of a full year's worth of electric utility bills
3. List all known factors, assumptions and issues in any calculations you provide for kW and kWh energy savings.
4. Provide clear and logical step-by-step calculations detailing the estimated energy savings.
5. Show all units in the calculations.
6. Provide a copy of the vendor proposal showing pricing detail.
7. Spreadsheets are accepted and encouraged; however calculation methods must be shown separately and clearly.
8. Only custom lighting projects are required to complete the "Wattage/Fixture\*" and "Qty" columns.

**Projects are paid at the incentive rate in the table below, however they cannot exceed the Caps.**

**All 8ft T12 systems must be run as a custom project. The baseline wattage will be the same as an 8ft T8 system.**

**Efficiency UNITED may require the energy savings associated with the installed equipment based on baseline calculations.**

Custom Project Payback	Incentive Rate	Project Cost Cap	Annual Customer Cap
1 – 8 years	\$0.06/kWh	75% of the total project cost	\$5,000
Lighting Systems			Baseline Input Wattage
T12 8ft 1 lamp		T8 8ft 1lamp	60
T12 HO 8ft 1lamp		T8 HO 8ft 1lamp	85
T12 8ft 2lamp		T8 8ft 2lamp	109
T12 HO 8ft 2lamp		T8 HO 8ft 2lamp	160

*Note: Measure life calculations must be approved by Efficiency UNITED.*

Description	Wattage/ Fixture**	Qty	Demand kW	Annual Hours of Operation	Annual kWh	Annual kWh saved	Measure Cost	Incentive
Existing								
New								
Existing								
New								
Existing								
New								
Existing								
New								
<b><i>CUSTOM SECTION B TOTAL</i></b>								

\*\*Use the "Calculation Formulas" to determine value.

	<b><i>CUSTOM TOTAL (A-B)</i></b>
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## FINAL APPLICATION SUMMARY AND AGREEMENT

FINAL PROJECT SUMMARY				
Company Name (as it appears on W-9)				Electric Utility
Mailing Address	City	ST	Zip	Utility Account Number
Installation Address	City	ST	Zip	Project Installation Date
Prescriptive Lighting Incentive Total	Prescriptive Non-Lighting Incentive Total	Custom Incentive Total		Custom Project Total Cost

PAYMENT RELEASE AUTHORIZATION (OPTIONAL)				
Complete this section <b>ONLY</b> if incentive payment is to be paid to an entity other than the customer.				
I am authorizing the payment of the incentive to the third party named below and I understand that I will not be receiving the incentive payment. I also understand that my release to a third party does not exempt me from the program requirements outlined in the Terms and Conditions.				
X				
Print Name				Date
Payee: Company/Individual Name				Phone Number
Mailing Address	City	ST	Zip	
Tax Payer ID (SSN/FEIN or Payee)	Tax Status – Corporation (Inc., LLC, etc.)			

FINAL APPLICATION CHECKLIST & CUSTOMER AGREEMENT	
Final applications must include the following information and be submitted with:	
<ul style="list-style-type: none"> <li>The entire completed application, including the completed incentive worksheets reflecting any applicable quantity or measure changes.</li> <li>An itemized invoice from the installing contractor and/or vendor for the project which includes a separate line item for each incentive measure, and includes the date, quantity, size, type, make and model of installed items, and labor costs, if applicable. <b>Internal labor cannot be included in the cost of the project.</b></li> <li>The manufacturer (OEM) specification sheets for any items that were part of a project application change.</li> </ul>	
I hereby certify that:	
<ul style="list-style-type: none"> <li>The information contained in this application is accurate and complete;</li> <li>All rules of this incentive program have been followed;</li> <li>I have read and understand the terms and conditions included with this document;</li> </ul>	
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 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.	
X	
Print Name	Date