



# Lighting Retrofit 2011 Rebate Application

[info@federatedrea.coop](mailto:info@federatedrea.coop)

Federated Rural Electric, PO Box 69, Jackson MN 56143 • Ph: 847-3520, 728-8366 or 1-800-321-3520

### Business Member Information

Company name \_\_\_\_\_

Billing address \_\_\_\_\_ Phone \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Installation address \_\_\_\_\_

*(if different from above)*

Federated location # \_\_\_\_\_ Federated member # \_\_\_\_\_

Contact name \_\_\_\_\_ Phone \_\_\_\_\_

Email \_\_\_\_\_

### Vendor Information

Vendor name \_\_\_\_\_

Vendor address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Vendor Contact Name \_\_\_\_\_ Phone \_\_\_\_\_

Email \_\_\_\_\_

The undersigned does hereby certify that 1) The undersigned, and not the cooperative, is solely responsible for the accuracy of the information contained in this application, 2) all rules of the Lighting Retrofit Rebate program have been followed, and 3) the installation is complete. Further, the undersigned acknowledges that nothing contained in the application shall impose any liability on the cooperative for the work performed and information presented by the member's engineer, contractor or vendor. Federated Rural Electric will be referred to hereafter in this application as "the cooperative".

Member signature \_\_\_\_\_ Date \_\_\_\_\_

### How to Apply for This Rebate

1. Fill out this rebate application. All information needs to be supplied before a rebate check can be issued. Please note all warranty information, rules, and qualifications on the rules and information tabs of this form.
2. Complete and sign rebate forms. Mail or fax pages to Federated Rural Electric; ATTN: Jon.
3. Call with questions.

Application # \_\_\_\_\_

## Lighting Retrofit 2011 Rebate Application

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### Specific Rules and Qualifications

The cooperative offers rebates to qualifying members who purchase and install qualifying energy-efficient lighting products in existing buildings. If the system configuration does not fit one of the prescriptive rebates shown, the project may still qualify for a rebate through the Custom Energy Rebate program. The Custom Energy Rebate requires review and approval by the participating member cooperative. Illuminating Engineering Society (IES) light levels are recommended.

#### 1. Fluorescent T8 or T5 Lamps with Electronic Ballast

Rebates based on installed equipment of one-for-one replacement of incandescent fixtures, fluorescent T12 lamps controlled by magnetic ballasts, or other fixture type that produce similar kW savings.

#### 2. Fluorescent Super T8 Lamps with Electronic Ballast

Rebate based on installed equipment of one-for-one replacement of incandescent fixtures, fluorescent T12 lamps controlled by magnetic ballasts, or other fixture type that produce similar kW savings. Super T8 systems must meet the following CEE criteria: – Lamps must produce at least 3,100 initial lumens; have a color-rendering index of (CRI)  $\geq 81$ ; have mean lamp lumens of per watt  $\geq 90$  for instant start ballast or  $\geq 88$  for programmed rapid start ballast; a lamp life of  $\geq 24,000$  hours (at 3 hrs/start); and have lumen maintenance of  $\geq 94\%$ .

– Ballasts must have a ballast efficacy factor (BEF) at least as high as the factors shown in the tables below.

Instant Start Ballast (BEF)			
Lamps	Low ( $BF \leq 0.85$ )	Normal ( $0.85 < BF \leq 1.0$ )	High ( $BF \geq 1.01$ )
1	3.08	3.11	N/A
2	1.60	1.58	1.55
3	1.04	1.05	1.04
4	0.79	0.80	0.77

Programmed Rapid Start Ballast (BEF)			
Lamps	Low ( $BF \leq 0.85$ )	Normal ( $0.85 < BF \leq 1.0$ )	High ( $BF \geq 1.01$ )
1	2.84	2.84	N/A
2	1.48	1.47	N/A
3	0.97	1.00	N/A
4	0.76	0.75	N/A

### 3. Low-wattage T8 Lamps

• Rebates are based on the installation of 4-ft T8 lamps 28W or less. Rebate is based on the number of lamps.

• Example A: Replace a 4-lamp 4-ft. T12 fixture with a 4-lamp 4-ft. T8 fixture with 28W T8 lamps; Rebate equals the T12 to T8 fixture retrofit rebate of \$20 plus the low-wattage T8 rebate of \$2.20 ( $\$0.55 \times 4$ ) for a total rebate of \$22.20.

• Example B: Remove standard 32W 4-ft. T8 lamp from a fixture and install a 28W T8 lamp. Rebate equals \$0.55.

### 4. High-bay Fluorescent T8 and T5HO Lamps with Electronic Ballast

• Rebates are based on one-for-one replacement of various wattage HID fixtures including mercury vapor, high pressure sodium, metal halide, pulse start metal halide, or other fixture type that produce similar kW savings. See table on inputs page for examples.

• High-bay fluorescent T8, T8 VHO, and T5 HO of various lamp quantities must maintain corresponding lumen output and produce kW savings based on their respective replacements. Fixtures must:

– Lumen maintenance  $> 90\%$

– Fixture efficiency  $> 80\%$

– Fixtures must have reflectors

• Fixtures with individual automatic controls installed qualify to receive additional rebate per fixture.

### 5. Compact Fluorescent Fixtures (CFLs)

Rebates are based on one-for-one replacement of incandescent fixtures with new hard-wired (dedicated) or modular fixtures containing pin based CFLs. For fixtures that house more than one lamp, the rebate is based on the total fixture wattage. (i.e., one fixture that houses (2) 18W CFLs would be rebated as (1) 36W CFL fixture). Screw based CFLs qualify at lower monetary levels.

### 6. Industrial Multi-Compact Fluorescent Fixtures

Rebates are based on one-for-one replacement of metal halide or fluorescent T12 lamps controlled by magnetic ballasts.

### 7. High Pressure Sodium (HPS) Fixtures

Rebates are based on one-for-one replacement of incandescent, metal halide, or mercury vapor fixtures. High pressure sodium lamp wattage must be lower than existing lamp wattage.

### 8. Pulse-Start Metal Halide (PSMH) Fixtures

Rebates are based on one-for-one replacement of incandescent, mercury vapor, high pressure sodium, or metal halide fixtures.

Pulse-start lamp wattage must be lower than existing lamp wattage.

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## 9. Ceramic Metal Halide Fixtures

Rebates are based on one-for-one replacement of incandescent, halogen, mercury vapor, high pressure sodium, metal halide, or pulse-start metal halide fixtures. Ceramic metal halide lamp wattage must be lower than existing lamp wattage.

## 10. Reflectors

Rebates are for permanently installed reflectors that have a minimum four-year manufacturer's product warranty, are U.L. approved and result in the permanent removal of fluorescent lamps from the existing fixture.

## 11. Automatic Controls – Occupancy Sensors, Photocells.

Automatic controls must be permanently installed wall or ceiling mounted, passive infrared, ultrasonic, or dual technology sensors. Rebate for controlling an area, not individual fixtures.

## 12. LED Exit Signs

Rebates are based on one-for-one replacement of the entire incandescent exit sign to LED exit sign. CFL exit signs do not qualify.

## Warranty Information

Rebate qualifications do not imply any representation or warranty of such equipment, design or installation by the cooperative. The cooperative shall not be responsible or liable for any personal injury or property damage caused by this equipment. The cooperative does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program. In no event shall the cooperative be liable for any incidental or consequential damages.

## Other Important Program Rules

1. Installation must be complete before rebate funds will be issued.
2. Members and vendors must submit itemized equipment invoices, along with rebate application and worksheet, to the cooperative. To ensure that the equipment installed meets the cooperative's performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, as well as information regarding the manufacturer and model numbers for all lamps, ballasts and fixtures included in the rebate.
3. The cooperative reserves the right to conduct random inspections of installations.
4. The member is responsible for checking with the cooperative to determine whether funding is available and to verify program parameters.
5. Rebate must comply with all program specific rules and qualifications.
6. The maximum rebate amount shall be the lesser of 50 percent of the project cost or \$100,000.
7. Qualifying members must apply for 2011 rebates no later than November 30, 2011.

## Lighting Retrofit 2011 Rebate Application

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**Business Name** 0

**Air Conditioned (Y/N)**

Fixture Type			\$/Unit	Quantity	Rebate	Hrs/Yr
Fluorescent T5 Lamps with Electronic Ballasts	≤ 4 ft.	3 and 4 lamp	\$ 21.00		\$ -	
		1 and 2 lamp	\$ 13.00		\$ -	
Fluorescent T8 Lamps with Electronic Ballasts	≤ 4 ft.	3 and 4 lamp	\$ 20.00		\$ -	
		1 and 2 lamp	\$ 12.00		\$ -	
	5 ft. to 8 ft.	2 lamp	\$ 20.00		\$ -	
		1 lamp	\$ 12.00		\$ -	
Fluorescent Super T8 Lamps with Electronic Ballasts	≤ 4 ft.	3 and 4 lamp	\$ 20.00		\$ -	
		1 and 2 lamp	\$ 12.00		\$ -	
	5 ft. to 8 ft.	2 lamp	\$ 18.00		\$ -	
		1 lamp	\$ 10.00		\$ -	
Low-Wattage Fluorescent T8 Lamps	≤ 4 ft., ≤ 28W	1 lamp	\$ 0.55		\$ -	
2-lamp T5HO, 3-lamp T5HO, 4-lamp T8	Replace HID 250W lamp systems		\$ 45.00		\$ -	
3-lamp T8VHO, 4-6 lamp T5HO, 6-8 lamp T8	Replace HID 310-400W lamp systems		\$ 80.00		\$ -	
6-lamp T8VHO, 8-lamp T5HO, 12-16 lamp T8	Replace HID 750W lamp systems		\$ 100.00		\$ -	
8-lamp T8VHO, 10-lamp T5HO, 18-20-lamp T8	Replace HID 1000W lamp systems		\$ 125.00		\$ -	
Automated control / fixture (photo/motion)	Controls hi-bay fluorescent fixture		\$ 5.00		\$ -	
Hardwired or Modular Fluorescent Fixtures include screw-base CFL's	Compact (does not include screw-base CFL's)	> 56W	\$ 30.00		\$ -	
		33W to 56W	\$ 26.00		\$ -	
		19W to 32W	\$ 20.00		\$ -	
		≤ 18W	\$ 10.00		\$ -	
Screw-Base Compact Fluorescent Lights		> 56W	\$ 10.00		\$ -	
		33W to 56W	\$ 6.00		\$ -	
		19W to 32W	\$ 4.00		\$ -	
		≤ 18W	\$ 2.00		\$ -	
Industrial Multi-CFL Fixtures	Replace T12 or metal halide systems		\$ 33.00		\$ -	
High Pressure Sodium Fixtures	≥ 251W		\$ 55.00		\$ -	
	151W - 250W		\$ 35.00		\$ -	
	≤ 150W		\$ 25.00		\$ -	
Pulse-Start Metal Halide Fixtures	≥ 750W		\$ 80.00		\$ -	
	320W - 749W		\$ 70.00		\$ -	
	176W - 319W		\$ 55.00		\$ -	
	≤ 175W		\$ 35.00		\$ -	
Ceramic Metal Halide Fixtures	≥ 251W		\$ 75.00		\$ -	
	151W - 250W		\$ 50.00		\$ -	
	51W to 150W		\$ 35.00		\$ -	
	≤ 50W		\$ 25.00		\$ -	
Reflectors	Must result in permanent removal of lamps from the existing systems.		sq. ft.	\$ 0.50	0	\$ -
			sq. ft.	\$ 0.50	0	\$ -
Automatic Controls (Must be permanently installed)	Photocell		\$ 14.00		\$ -	
	Ceiling mount occupancy sensor		\$ 40.00		\$ -	
	Wall mount occupancy sensor		\$ 14.00		\$ -	
LED Exit Signs	Retrofit only		\$ 10.00		\$ -	

\*\*Required Information. Must enter total project to determine rebate.

<b>**Project Cost</b>	\$ -
<b>Total Rebate</b>	\$ -

Federated Rural Electric Representative

Date

