

# Business Lighting Retrofit

IMPROVE YOUR LIGHTING SYSTEM TO SAVE MONEY

## Incentives

- Quality assurance and technical assistance
- Cash incentives based on the type and number of upgrades made
- Low-interest financing through St. Helens Community Federal Credit Union

## Lighting partners

Important! The following companies have signed an agreement with Columbia River PUD to promote the PUD's program for non-residential lighting upgrades. They have reviewed the PUD's requirements and have agreed to install equipment in accordance with the program's requirements. Customers are not required to have lighting upgrades performed by one of these companies in order to qualify for incentives through this program. However, all qualifying installations must comply with applicable federal, state and local requirements.

### Alderbrook & Associates

#### Lighting Services

3226 SE Johnson Creek Blvd  
Portland, OR 97222  
(503) 222-0627  
CCB# 93735  
Contact: Dave Emmenegger

### AMTECH Lighting Services

1326 NE 63rd Ave  
Portland, OR 97213  
(503) 224-7636  
CCB#127455  
Contact: Curt Harrison

### Christenson Corporation

1631 NW Thurman, Suite 200  
Portland, OR 97209  
(503) 419-3600  
CCB#458  
Contact: Kelly Gorchman

### Midway Electric Company

1271 Columbia Boulevard  
St. Helens, OR 97051  
(503) 397-0555  
CCB#1792  
Contact: Dick Hoffmann

### Oregon Electric Group

1010 SE 11th Ave  
Portland, OR 97214  
(503) 535-2673  
CCB#203  
Contact: Shawn Heinige

### Stoner Electric Group

1904 SE Ochoco Street  
Milwaukie, OR 97222  
(800) 548-2701  
CCB#44823  
Contact: Jason Glendenning

The lighting retrofit program helps owners and leaseholders of commercial and institutional facilities upgrade light fixtures, lighting controls and HVAC controls to energy efficient technologies.

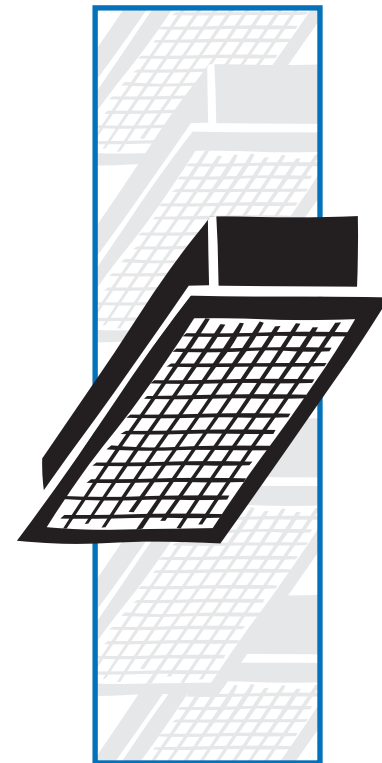
The program offers cash incentives and low-interest financing for installing approved energy-saving upgrades. Material specifications and requirements are provided to ensure quality work. Participants are responsible for properly disposing of removed materials, such as fluorescent tubes and ballasts, in a manner that complies with all regulations. Many lighting contractors offer such disposal services.

## Eligible customers

Commercial and institutional facilities served by Columbia River PUD are eligible for this program. Projects must reduce the connected wattage of affected fixtures by at least 30% (occupancy sensors and programmable setback thermostats are exempt from this requirement). All projects shall utilize products that are ENERGY STAR® rated, if available. Cash incentives shall not exceed 70% of the actual cost of the energy-saving measures.

## Project steps

1. You request a facility lighting audit from the PUD to develop a list of lighting upgrades that are eligible for rebates.
2. You may either solicit proposals yourself or authorize the PUD to solicit proposals from our Lighting Partners. Lighting Partners would be given two weeks to submit a written proposal.
3. If desired, the PUD will meet with you to review the proposals, discuss loan options and answer any questions you may have. You must sign an agreement with the PUD prior to proceeding with your project.
4. After you have selected a contractor, you must authorize them to proceed with the project and agree on a completion date. If you have made financing arrangements, you should discuss them with your contractor.
5. Once the project has been completed, the contractor will notify the PUD.
6. The PUD will conduct a verification audit, inspect materials & installation and process your rebate. If the credit union financed the project, we will notify them that it is complete and they will pay the contractor.



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St. Helens, Oregon 97051  
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Web: [www.crpud.net](http://www.crpud.net)

**COLUMBIA RIVER**  
PUD

# Incentive Amounts for Retrofit Program

Existing Equipment	Measure Description	Rebate Per Unit
T12 Fluorescent, T8 De-Lamp, Incandescent or Mercury Vapor	<b>High Performance T8 Fluorescent Lamps and Electronic Ballasts</b>	
	Includes T8, 2' to 8' lamps. Ballast: PF ≥ 95%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 95%, CRI ≥ 85, 4' lamp lumens ≥ 3,100, 4' lamp life ≥ 24,000 hrs, Initial Lumens/Watt ≥ 95.	
	1 lamp and electronic ballast (15 to 44 input watts)	\$20
	2 to 4 lamps and electronic ballast (45 to 114 input watts)	\$40
	<b>T8 or T5 Fluorescent Lamps and Standard Electronic Ballast</b>	
	Includes T8 and T5, 2' to 8' lamps. Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 90%, CRI ≥ 80, 4' lamp lumens ≥ 2,800, 4' lamp life ≥ 20,000 hrs, Initial Lumens/Watt ≥ 80.	
1 lamp and standard electronic ballast (15 to 44 input watts)	\$15	
2 to 4 lamps and standard electronic ballast (45 to 114 input watts)	\$30	
Incandescent or Mercury Vapor	<b>Hard Wired Compact Fluorescent</b>	
	Hard wired ballast and replaceable lamp, CRI ≥ 80, see Specifications for lumens/Watt requirement	
	7 to 49 Watts (Nominal Lamp Watts)	\$30
	50 to 99 Watts	\$50
	<b>Ceramic Metal Halide (New Fixture)</b>	
	CRI ≥ 80, lumen maintenance ≥ 80%, and maximum color shift over life of lamp ≤ 200K	
	200 to 100 Watts (Nominal Lamp Watts)	\$50
	101 to 250 Watts	\$80
	<b>Screw-in Compact Fluorescent Lamps (Lamp Only)</b>	
	Includes one Piece or Modular, <b>Energy Star</b> ® compliant where applicable	
	3 to 24 Watts (Nominal Lamp Watts)	\$3
	25 to 45 Watts	\$6
	Over 45 Watts	\$12
	<b>LED or Cold Cathode Exit Signs</b>	
	<b>Energy Star</b> compliant where applicable, Input Watts < 5	
Retrofit kit or Replace existing incandescent sign	\$30	
<b>Induction Lamp Luminaire</b>		
Lamp Life ≥ 80,000 hours, CRI ≥ 80		
100 Watts or less (Nominal Lamp Watts)	\$60	
Over 100 Watts	\$120	

Existing Equipment	Measure Description	Rebate Per Unit
T 12 Fluorescent, MV/HPS Probe-Start Metal Halide or Incandescent	<b>High Output Fluorescent Luminaire (New Fixture)</b>	
	Includes T8, T5, long twin tube T5; 4' and 8'. Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 18,000 hours, Initial Lumens/Watt ≥ 80.	
	85 to 129 Watts (Ballast Input Watts)	\$80
	130 to 189 Watts	\$100
	190 to 249 Watts	\$120
	250 to 600 Watts	\$140
	<b>Pulse Start Metal Halide Luminaire (New Fixture)</b>	
Lamp Life ≥ 20,000 hours, Lumen Maint. ≥ 75%, CRI ≥ 65, initial Lumens/Watt ≥ 89.		
300 to 399 Watts (Nominal Lamp Watts)	\$100	
400 to 750 Watts	\$150	
8' T12 HO and VHO	<b>Retrofit High Output Fixtures with T8 Lamps and Ballasts</b>	
	Includes lamp/ballast retrofits only; Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: 8' T8 Slimline & HO Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 18,000 hours, Initial Lumens/Watt ≥ 80.	
	1 T8 8' lamp and standard electronic high output ballast	\$20
2 to 4 T8 lamps and standard electronic high output ballast	\$40	
8' T12 VHO	<b>Retrofit Very High Output Fixtures with T5 Lamps and Ballasts</b>	
	Includes lamp/ballast retrofits only; Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: 4' T5 HO. Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 20,000 hours, Initial Lumens/Watt ≥ 80.	
	2 T5 lamps and high output ballast	\$25
4 T5 lamps and high output ballast	\$50	
Manual Control	<b>Occupancy Sensors and/or Timers</b>	
	Includes infrared, ultrasonic and dual-technology sensors and/or timers	
	100 to 200 Watts controlled	\$35
over 200 Watts controlled	\$45	

## Requirements for payment of rebates

1. A pre-work audit and a post-work inspection must be completed by PUD personnel.
2. The installed equipment must meet program requirements and specifications.
3. The rebate items listed must be installed and operational.
4. The project must achieve a 30% or greater Watt reduction.
5. Rebates cannot exceed 70% of the actual cost of the energy saving measures.

