



Business

Lighting Retrofit

IMPROVE YOUR LIGHTING SYSTEM TO SAVE MONEY

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

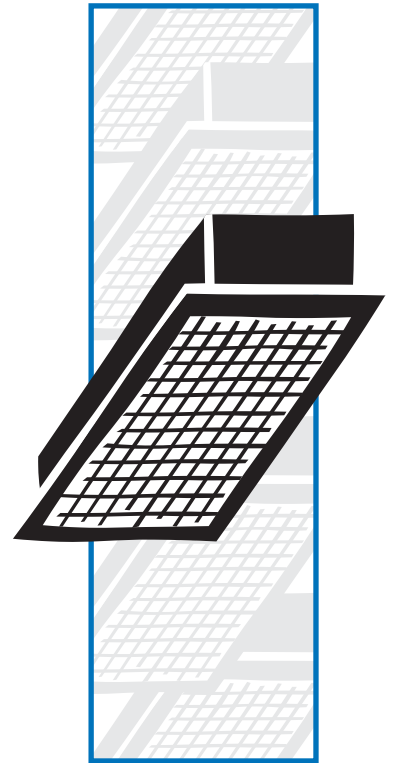
The program offers cash incentives for installing approved energy-saving upgrades. Material specifications and requirements are provided to ensure quality work. Participants are responsible for properly disposing of removed materials, such as fluorescent tubes and ballasts, in a manner that complies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

Eligible customers

Commercial and industrial facilities served by Columbia River PUD are eligible for this program. Projects must reduce the connected wattage of affected fixtures by at least 25% (occupancy sensors 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.
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.



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COLUMBIA RIVER
PUD

Incentive Amounts for Retrofit Program

Existing Equipment	Measure Description	Rebate Per Unit
T12 Fluorescent, T8 De-Lamp, Incandescent or Mercury Vapor	High Performance T8 or T5 Lamp and Ballast (New or Retrofit)	
	Includes T8 & NLO T5, 2' to 8' lamps: Ballast: PF ≥ 95%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 94%, CRI ≥ 80, lamp life ≥ 24,000 hours, Initial System Lumens/Watt ≥ 95. Note: All lamps and ballasts on CEE's High Performance products list qualify. Refer to the following link: http://www.cee1.org/	
	Upgrade to 1 lamp with high performance electronic ballast	\$20
	Upgrade to 2 - 4 lamps with high performance electronic ballast	\$40
	T8 or T5 Lamps and Ballast (New or Retrofit)	
	Includes T8 and T5, 2' to 8' lamps. Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 90%, CRI ≥ 80, 4' lamp life ≥ 20,000 hrs, Initial System Lumens/Watt ≥ 80.	
	Upgrade to 1 lamp with high performance electronic ballast	\$10
	Upgrade to 2 to 4 lamps with standard electronic ballast	\$20
Incandescent, Mercury Vapor, HO/VHO T12 or HPS/LPS	Hard Wired Compact Fluorescent (New Fixture or Retrofit kit)	
	Includes both typical hardwired (any shape) or GU-24 base, See Energy Star for guidance, CRI ≥ 80.	
	49 Watts or less (Nominal Lamp Watts)	\$40
	50 or more Watts (Nominal Lamp Watts)	\$80
	Ceramic Metal Halide (New Fixture)	
	CRI ≥ 80, lamp life ≥ 10,000 hours.	
	99 Watts or less (Nominal Lamp Watts)	\$80
	100 or more Watts (Nominal Lamp Watts)	\$150
	Screw-in Lamps (Lamp Only)	
	Energy Star compliant where applicable. Includes CFL and Cold Cathode.	
	CFL or Cold Cathode - 1 to 24 Watts	\$3
	CFL or Cold Cathode - 25 to 45 Watts	\$6
	CFL or Cold Cathode - over 45 watts	\$12
	LED or Cold Cathode (New Fixture or Retrofit kit)	
	Energy Star compliant where applicable.	
	Upgrade incandescent sign to LED or cold cathode	\$50
	Upgrade incandescent recessed cans or track heads to LED (includes LR-6 type kit or equivalent.)	\$30
Induction (New Fixture)		
Lamp Life ≥ 60,000 hours, CRI ≥ 80, can include retrofit kit that has been bench tested.		
99 Watts or less (Nominal Lamp Watts)	\$80	
Over 100 Watts (Nominal Lamp Watts)	\$150	



Existing Equipment	Measure Description	Rebate Per Unit
HO/VHO T12, MV/HPS/LPS, Probe-Start Metal Halide or Incandescent	High Output (high-bay) Fluorescent (New Fixture)	
	Includes T8, T5, bi-ax T5; 1'-8'. Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 18,000 hours, Initial System Lumens/Watt ≥ 80.	
	40 to 129 Watts (1-2 lamp T5) or equivalent T8	\$120
	130 to 189 Watts (3 lamp T5) or equivalent T8	\$140
	190 to 249 Watts (4 lamp T5) or equivalent T8	\$160
	250 Watts and above (5 - 12 lamp T5) or equivalent T8	\$180
	Pulse Start or Electronic Metal Halide (New Fixture)	
	Lamp Life ≥ 20,000 hours, Lumen Maint. ≥ 75%, CRI ≥ 65, Initial System Lumens/Watt ≥ 89.	
	200 to 399 Watts (Nominal Lamp Watts)	\$150
400 Watts and above (Nominal Lamp Watts)	\$200	
8' T12 HO/VHO 4' HO de-lamp	Retrofit High Output Fixtures with T8 Lamps and Ballasts	
	Includes lamp/ballast retrofits & kits; Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: 8' or 4' T8 Slimline or HO. Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 18,000 hours, Initial system Lumens/Watt ≥ 80.	
	1 T8 8' lamp and standard electronic ballast	\$40
(2 to 8) 4' T8 lamps and standard electronic ballast	\$80	
8' T12 VHO	Retrofit Very High Output Fixtures with T5 Lamps and Ballasts	
	Includes lamp/ballast retrofits only; Ballast: PF ≥ 90%, THD ≤ 20%. Lamp: 8' or 4' T8 Slimline or HO. Lumen Maint. ≥ 90%, CRI ≥ 80, lamp life ≥ 20,000 hours, Initial System Lumens/Watt ≥ 80.	
	2 T5 lamps and high output ballast	\$50
3 to 4 T5 lamps and high output ballast	\$100	
Manual Control	Occupancy Sensors, Timers, Photocells and Control Panels	
	Includes infrared, ultrasonic and dual-technology sensors and/or timers, photocells and control panels.	
	50 to 200 Watts controlled	\$35
over 200 Watts controlled	\$60	

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 25% or greater Watt reduction.
5. Rebates cannot exceed 70% of the actual cost of the energy saving measures.



Incentives

- Quality assurance and technical assistance
- Cash incentives based on the type and number of upgrades made

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

Sylvania Lighting Services

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

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: Don Kallberg

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: Robert Mott