

Lighting Technologies

Rocky Mountain Power provides incentives for many types of energy-efficient technologies. Please read the following sections carefully to ensure that you follow the appropriate steps for securing your incentive. Equipment may be subject to inspection prior to incentive approval.

Incentives for additional measures may be available. For more information about the FinAnswer Express program, eligibility requirements, incentive levels or other general inquiries, contact your local lighting dealer or Rocky Mountain Power. You can visit the program website at rockymountainpower.net/wattsmart and submit your inquiry online, or you can call our energy services hotline at 1-800-222-4335.

HIGH-EFFICIENCY LIGHTING RETROFITS

Measure description: Lighting retrofit projects are one of the most common and effective energy conservation opportunities available to commercial and industrial customers.

Applicability: Retrofit applications only.

Equipment eligibility: Rocky Mountain Power offers prescriptive or custom incentives for qualifying lighting equipment. To be eligible for the incentives listed in Table 1, an incentive agreement must be in place on or after May 19, 2012. The new lighting system must use less energy than the existing/baseline lighting system.

- Prescriptive incentives are offered for common lighting improvements as shown in Table 1 and are subject to project incentive caps.
- Custom incentives may be offered for lighting retrofits for an upgrade that is not listed in Table 1, is NRTL certified, and saves energy over an existing/baseline fixture. Custom incentives equal \$0.10/kWh annual energy savings and are subject to project incentive caps.
- Incentive caps apply to both prescriptive and custom incentives. The eligible incentive will be limited to 50 percent of the eligible project costs and will also be capped to maintain a simple payback greater than or equal to 1 year (including incentives).

Prequalification required? Yes. Contact a participating vendor or Rocky Mountain Power to get started. A pre-installation inspection of existing lighting may be required. Ensure that you sign a FinAnswer Express Incentive Agreement before you sign any purchase orders for equipment or installation services.

Note: Rocky Mountain Power has a lighting calculation worksheet for Retrofit projects. It is available for vendors participating in our Energy Efficiency Alliance (EEA) to calculate project-specific energy savings, project economics, and eligible incentives for retrofit projects. Visit our website at rockymountainpower.net/wattsmart for a current list of participating vendors. Contact a participating vendor or Rocky Mountain Power for next steps.

Post-installation inspection: An inspection of the installed equipment may be required prior to incentive payment.

Items to submit prior to incentive payment: In addition to the items required for the project pre-approval, invoices with itemized labor and materials are required to be submitted before incentive payment will be made.

Information on lamp and ballast recycling: Fluorescent and High-Intensity Discharge (HID) lighting contains trace amounts of mercury and other toxic materials. Lamps and ballasts should always be disposed of properly in accordance with State and Federal regulations. Please consult with the State of Utah Division of Solid and Hazardous Waste. Information can be found on their website: www.hazardouswaste.utah.gov

Table 1. Retrofit Lighting Efficiency Requirements & Incentive Levels

Measure	Category	Eligibility Requirements	Customer Incentive
T8 Fluorescent	Standard	4' Lamp \leq 32 Watts, Electronic ballast with Ballast Factor \leq 0.88 (See Note 3)	\$3/Lamp
	Premium	4' CEE Qualified Reduced Wattage or High Performance Lamp and CEE Qualified Ballast included on CEE qualified ballast list	\$7/Lamp
	Premium Delamp	4' CEE Qualified Reduced Wattage or High Performance Lamp and CEE Qualified Ballast. Must remove one or more lamps. To delamp an existing fixture, the lamp and all corresponding sockets must be permanently disabled.	\$21/Lamp Removed
	Relamp	Lamp wattage reduction \geq 3 Watts, no ballast retrofit.	\$0.25/Lamp
	High Bay	4' CEE Qualified High Performance Lamp. Must replace T12HO, Incandescent, or HID in a high ceiling application.	\$20/Lamp
	Continuous Operation	4' CEE Qualified Reduced Wattage or High Performance Lamp and CEE Qualified Ballast included on qualified ballast list installed in a continuous operation application-8760 hrs/year	\$20/Lamp
T5 Fluorescent	Standard	4' Nominal Lamp \leq 28 Watts, Ballast Factor \leq 1.0	\$5/Lamp
	Relamp	Lamp wattage reduction \geq 3 Watts, no ballast retrofit.	\$0.25/Lamp
	High Bay	4' Nominal High Output Lamp	\$20/Lamp
	Continuous Operation	4' Nominal High Output Lamp installed in a continuous operation application-8760 hrs/year	\$20/Lamp
Cold Cathode	Screw-in Lamp	All wattages	\$5/Lamp
Compact Fluorescent Lamp (CFL)	Screw-in Lamp	All wattages (See Note 7)	\$2/Lamp
	Hardwired Fixture	All wattages	\$5/Fixture
Ceramic Metal Halide (CMH)	CMH Lamp	All wattages	\$35/Lamp
Pulse Start Metal Halide (PSMH)	PSMH Fixture	All wattages > 500W	\$60/Fixture
	Electronic Ballast	Must be used in place of or replace a magnetic ballast	\$20/Ballast
Induction	Induction Fixture	All wattages, New fixtures only	\$125/Fixture
LED	Integral Screw-in Lamp	LED must be on qualified fixture list (see Note 9)	\$10/Lamp
	Recessed Downlight	LED must be on qualified fixture list (see Note 9)	\$10/Fixture
	Outdoor Area and Roadway	LED must be on qualified fixture list (see Note 9)	\$100/Fixture
	Parking Garage	LED must be on qualified fixture list (see Note 9)	\$100/Fixture
	High and Low Bay	LED must be on qualified fixture list (see Note 9)	\$100/Fixture

Notes for Table 1:

- To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by the Rocky Mountain Power.
- Incentives are capped at 50 percent of Energy Efficiency Project Costs and subject to the one-year payback cap.
- The incentive for the Standard T8 Fluorescent will no longer be available effective July 14, 2012.**
- Two-foot U-tube lamps may be substituted for 4' linear fluorescent lamps.
- Incentives for T8 Fluorescent Premium Delamps may not be combined with other linear fluorescent lamp or fixture incentives. Complete fixture removals are not eligible.
- Incentives for T8 Fluorescent Relamps may not be combined with other linear fluorescent lamp or fixture incentives and will only be paid once per facility.
- The incentive for Screw-In CFL Lamps will no longer be available effective January 1, 2014.
- CEE Qualified equipment lists referenced in Table 1 are available online www.cee1.org.
- LED fixtures and bulbs must be listed on the approved products list on at least one of the following websites:
 - Energy Star: www.energystar.gov
 - Design Lights Consortium: www.designlights.org
 - Lighting Design Lab: www.lightingdesignlab.com

BF = Ballast Factor

CEE = Consortium for Energy Efficiency

CFL = Compact Fluorescent Lamp

CMH = Ceramic Metal Halide

HID = High Intensity Discharge

HO = High Output

LED = Light-Emitting Diode

PSMH = Pulse Start Metal Halide

RETROFIT LIGHTING CONTROLS

Measure description: Lighting Controls help reduce energy use by turning off lighting equipment when it is not needed.

Applicability: Retrofit applications only.

Equipment eligibility: Rocky Mountain Power offers prescriptive incentives for qualifying installations of lighting controls. Equipment must be purchased and installed on or after May 19, 2012 in order to be eligible for the incentives listed in this catalog. The new lighting controls must be installed where lighting controls were not previously present.

- Prescriptive incentives are offered for lighting controls as shown in Table 2 and are subject to project incentive caps.
- Custom incentives may be offered for lighting controls for an upgrade that is not listed in Table 2. Custom incentives for lighting controls require pre-qualified, custom analysis. Contact us at 1-800-222-4335 for additional information.
- Incentive caps apply to lighting controls. The eligible incentive will be limited to 50 percent of the eligible project costs and will also be capped to maintain a simple payback greater than or equal to 1 year (including incentives).

Items to submit with the post-purchase lighting incentive application:

1. Dated sales receipt/invoice for the installed equipment.
2. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.
3. Completed Rocky Mountain Power lighting calculation worksheet.

Prequalification required? Prequalification is recommended, but not required for retrofit projects involving controls only where the controls are listed in Table 2.

Prequalification is required for controls installed as part of a lighting retrofit project and for custom incentives. For projects involving both lighting controls and fixtures, contact us or a participating EEA vendor *prior to* purchasing equipment. This applies to projects with custom incentives as well. For further information, please reference the High-Efficiency Lighting Retrofit section of this catalog above.

Table 2. Retrofit Lighting Efficiency Requirements & Incentive Levels

Measure	Category	Eligibility Requirements	Customer Incentive
Lighting Control	Occupancy Control	PIR, Dual Tech, or Integral Sensor	\$75/Sensor
	Daylighting Control	Must control interior fixtures with driver or qualifying ballast that dims 50% or more of the fixture in response to daylight.	\$75/Sensor
	Advanced Daylighting Control	Must incorporate both an occupancy sensor and daylighting sensor operating as part of the same control sequence in the same space.	\$150
	Dimming Ballast	Continuous, Stepped, or Bi-Level ballast or automated control that dims 50 percent or more of the fixture. Must be controlled by a qualifying occupancy or daylighting control.	\$15/Ballast

Notes for Table 2:

1. To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by Rocky Mountain Power.
2. Incentives are capped at 50 percent of eligible Energy Efficiency Project Costs, and incentives will not be available to reduce the Energy Efficiency Project simple payback below one year.
3. Incentives for Advanced Daylighting Controls may not be combined with Occupancy Control or Daylighting Control incentives.

PIR = Passive Infra-Red

Dual Tech = Sensors combining ultrasonic and passive infra-red

LED SIGNAGE (NON-GENERAL ILLUMINANCE) (RETROFIT ONLY)

Measure description: Incentives for non-general illuminance are available for signage using LED technology. Incentives are available for four types of LED signs: LED Message Center Sign, LED Channel Letter Sign, LED Marquee/Cabinet Sign and Exit Sign. Incentives for LED traffic light installations are not available.

- **Message Center Signs** display text and are commonly found on storefronts, restaurants and arenas.
- **Channel Letters** are individually illuminated letters and graphics that are typically found on storefronts.
- **Marquee/Cabinet signs** illuminate translucent signs from within.
- **Exit Signs** direct people to the nearest building exit.

Applicability: Only retrofit projects may be eligible for incentives listed in Table 3. In order to qualify for incentives, LED Message Center Signs must replace incandescent signage, LED Channel Letter Signs must replace neon or fluorescent signage, LED Marquee/Cabinet Signs must replace fluorescent signage, and LED Exit Signs must replace incandescent or fluorescent exit signs.

Equipment eligibility: Equipment must be purchased and installed on or after May 19, 2012*, and meet all other program terms and conditions. LED products must be certified by a Nationally Recognized Testing Laboratory (NRTL).

*For information regarding equipment purchased prior to May 19, 2012, please contact us.

Items to submit with the post-purchase lighting incentive application:

1. Dated sales receipt/invoice for the installed equipment.
2. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification required? No. Incentives are available via a post-purchase incentive application process. Prequalification is recommended, but not required to receive incentives. LED Exit Signs installed in conjunction with a High-Efficiency Lighting Retrofit should be included in the required prequalification process of that project.

Table 3. Efficiency Requirements, Incentive Levels & Equipment Codes

Measure	Category	Equipment Code	Eligibility Requirements	Customer Incentive
Non-general Illuminance (Retrofit Only)	LED Message Center Sign	LEDMSG	LED replacing existing incandescent signage	\$5/Lamp Replaced
	LED Channel Letter Sign	LEDCHN	LED replacing existing neon or fluorescent signage	\$5/Linear Foot
	LED Marquee/ Cabinet Sign	LEDMQE	LED replacing existing fluorescent signage	\$5/Linear Foot
	LED Exit Sign	LEDEXI	LED or photoluminescent replacing existing incandescent or fluorescent	\$15/Sign

1. To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by Rocky Mountain Power.
2. Incentives are capped at 50 percent of Energy Efficiency Project Costs and incentives will not be available to reduce the Energy Efficiency Project simple payback below one year.
3. Linear footage is calculated as follows:
 - a. Channel Letters – The actual, measured linear footage of the LED illuminant. All measurements may be subject to verification via inspection prior to approval.
 - b. Marquee/Cabinet Signs – The linear footage of the fluorescent tubes being replaced by LED technology.

LED = Light-Emitting Diode

LED REFRIGERATED CASE LIGHTING (RETROFIT ONLY)

Measure description: Fixtures within refrigerated reach-in display cases are used to display refrigerated products. Replacing existing fluorescent lighting with energy efficient LED light bars reduces total lighting wattage and heat gain in the refrigerated space.

Applicability: Retrofit projects only may be eligible for incentives. LED technology must replace fluorescent lamps.

Equipment eligibility: Equipment must be purchased and installed on or after May 19, 2012, and meet all other program terms and conditions. LED products must be certified by a Nationally Recognized Testing Laboratory (NRTL).

Items to submit with the post-purchase lighting incentive application:

1. Dated sales receipt/invoice for the installed equipment.
2. Itemized listing of quantity, description, manufacturer, model number and other identifying information as appropriate.
3. Manufacturer's equipment specification sheet.
4. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification required? No. Incentives are available via a post-purchase incentive application process. Prequalification is recommended, but not required to receive incentives.

<u>Equipment code</u>	<u>Measure description</u>	<u>Incentive</u>
LEDCLR	LED Case Lighting	\$10/Linear Foot

REFRIGERATED CASE OCCUPANCY SENSOR (RETROFIT ONLY)

Measure description: Refrigerated case occupancy sensors provide energy savings by turning off lighting and managing product temperature efficiently when the area surrounding the case is unoccupied.

Applicability: Retrofit projects only may be eligible for incentives. Equipment must be installed in an existing refrigerated case with existing LED lighting or as part of an LED case lighting retrofit.

Equipment eligibility: Occupancy sensor control equipment must be purchased and installed on or after May 19, 2012, and meet all other program terms and conditions. This measure is intended for refrigerated cases only.

Items to submit with the post-purchase lighting incentive application:

1. Dated sales receipt/invoice for the installed equipment.
2. Itemized listing of quantity, description, manufacturer, model number and other identifying information as appropriate.
3. Manufacturer's equipment specification sheet.
4. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification required? No. Prequalification is recommended, but not required to receive incentives. Contact your vendor or Rocky Mountain Power for more information.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
REFOCS	Refrigerated Case Occupancy Sensor	\$1 / controlled linear foot of LED lighting

NEW CONSTRUCTION/MAJOR RENOVATION HIGH-EFFICIENCY LIGHTING

Measure description: Installing high-efficiency lighting during construction can be a cost-effective means of saving electricity.

Applicability:

1. New Construction: A newly constructed facility or newly constructed square footage added to an existing facility.
2. Major Renovation: A change in facility use type or where the existing system will not meet owner/customer projected requirements within existing facility square footage.

Interior equipment eligibility: In order to qualify for incentives, the new construction/major renovation project must be completed on or after May 19, 2012* and meet all other program terms and conditions as listed in Table 4. The whole building's total connected interior lighting power (watts/square foot) must be 10 percent lower than the interior lighting power allowance calculated under Utah energy code.

Items to submit with the post-purchase lighting incentive application:

1. Dated sales receipt/invoice for the installed equipment.
2. Completed Rocky Mountain Power lighting calculation worksheet.
3. Itemized listing of quantity, description, manufacturer, model number and other identifying information as appropriate.
4. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Note: Rocky Mountain Power has an interior lighting calculation worksheet. It is available for vendors participating in our Energy Efficiency Alliance (EEA) to calculate project-specific energy savings, project economics, and eligible incentives for new construction/major renovation interior lighting projects. Exterior lighting projects are calculated separately; please see the section New Construction/Major Renovation Exterior Lighting for more details. Visit the program website at rockymountainpower.net/wattsmart for a current list of EEA participating vendors. Contact your EEA participating vendor or Rocky Mountain Power for next steps.

Prequalification Required? No. Incentives for new construction/major renovation lighting upgrades are available via a post-purchase incentive application process. Prequalification is recommended, but not required to receive incentives. Installed equipment may be subject to inspection prior to incentive approval.

*For information on incentives available for new construction/major renovation projects completed prior to May 19, 2012, please call 1-800-222-4335.

Table 4. New Construction and Major Renovation Lighting Incentives

Measure	Category	Eligibility Requirements	Incentive
Interior Lighting	Lighting and Lighting Control	<ol style="list-style-type: none"> 1. The total connected interior lighting power for New Construction/Major Renovation projects must be 10 percent lower than the interior lighting power allowance calculated under IECC 2009. For New Construction/ Major Renovation projects not included in the IECC 2009, the total connected lighting power must be 10 percent lower than common practice as determined by Rocky Mountain Power. 2. Energy savings is subject to approval by Rocky Mountain Power. 	\$0.08/kWh annual energy saved

Notes for Table 4:

1. LED fixtures and bulbs must be listed on the approved products list on at least one of the following websites:
 - Energy Star: www.energystar.gov
 - Design Lights Consortium: www.designlights.org
 - Lighting Design Lab: www.lightingdesignlab.com

IECC = International Energy Conservation Code

NEW CONSTRUCTION/MAJOR RENOVATION HIGH-EFFICIENCY LIGHTING (CONT.)
Table 5. International Energy Conservation Code 2009 Maximum Lighting Power Densities (LPD)

(IECC 2009 Table 505.5.2)

Building Area Type	(W/ft ²)
Automotive facility	0.9
Convention center	1.2
Courthouse	1.2
Dining: Bar Lounge/Leisure	1.3
Dining: Cafeterias Fast Food	1.4
Dining: Family	1.6
Dormitory	1.0
Exercise center	1.0
Gymnasium	1.1
Health care – clinic	1.0
Hospital	1.2
Hotel	1.0
Library	1.3
Manufacturing Facility	1.3
Motel	1.0
Motion Picture Theater	1.2
Multifamily	0.7
Museum	1.1
Office	1.0
Parking Garage	0.3
Penitentiary	1.0
Performing Arts Theater	1.6
Police/Fire Station	1.0
Post Office	1.1
Religious Building	1.3
Retail	1.5
School/University	1.2
Sports Arena	1.1
Town Hall	1.1
Transportation	1.0
Warehouses	0.8
Workshop	1.4

NEW CONSTRUCTION/MAJOR RENOVATION EXTERIOR LIGHTING

Measure description: Installing high-efficiency lighting during construction can be a cost-effective means of saving electricity.

Applicability:

1. *New Construction:* A newly constructed facility or newly constructed square footage added to an existing facility.
2. *Major Renovation:* A change in facility use type or where the existing system will not meet owner/customer projected requirements within existing facility square footage.

Exterior equipment eligibility: In order to qualify for exterior lighting incentives listed in this catalog, equipment must be purchased and installed on or after May 19, 2012, and meet all other requirements listed in Table 6.

Items to submit with post-purchase lighting incentive application:

1. Dated sales receipt for the installed equipment.
2. Completed Rocky Mountain Power lighting calculation worksheet
3. Itemized listing of quantity, description, manufacturer, model number and other identifying information as appropriate.
4. Manufacturer’s equipment specification sheet.
5. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification Required? No. Incentives for new construction/major renovation exterior lighting upgrades are available via a post-purchase incentive application process. Prequalification prior to placing purchase orders is recommended but not required.

Table 6. New Construction and Major Renovation Exterior Lighting Incentives

Measure	Category	Eligibility Requirements	Incentive
Exterior Lighting	Induction Fixture	All wattages, New fixtures only	\$125/Fixture
	LED Outdoor Area and Roadway	LED must be on qualified fixture list (see Note 1)	\$100/Fixture
	LED Parking Garage	LED must be on qualified fixture list (see Note 1)	\$100/Fixture
	Lighting Control	Integral occupancy sensor which must control a linear fluorescent, induction, or LED fixture. Sensor must be installed on a continuous duty light operating 8760 hours per year.	\$75/Sensor

Notes for Table 6:

1. LED fixtures and bulbs must be listed on the approved products list on at least one of the following websites:
 - Energy Star: www.energystar.gov
 - DesignLights Consortium: www.designlights.org
 - Lighting Design Lab: www.lightingdesignlab.com

IECC = International Energy Conservation Code
LED = Light-emitting Diode

LIGHTING EQUIPMENT NOT ELIGIBLE FOR RETROFIT INCENTIVES

The following technologies are not eligible to receive incentives through the FinAnswer Express program for retrofit projects.

HID

HPS-High Pressure Sodium

MH-Metal Halide

MV-Mercury Vapor

Fluorescent

Standard T8 Fluorescent Lamps: As of July 14, 2012 incentives will no longer available.

T12 Fluorescent Lamps

Incandescent

All incandescent lamps are ineligible for incentives

LED

LED traffic lights