

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.

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.

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.

Equipment Eligibility: Qualifying lighting equipment is shown in Table 1. In order to qualify for lighting incentives, the whole building's total connected interior lighting power (watts/square foot) for new construction/major renovation projects required to comply with the energy code, must be 10 percent lower than the interior lighting power allowance calculated under the applicable version of the Idaho energy code (See Table 2). The date of the building permit application shall establish the applicable version of the energy code.

For new construction/major renovation projects not required to comply with the energy code, the total connected lighting power must be 10% lower than common practice as determined by Rocky Mountain Power. Equipment must be purchased and installed, and meet all other program terms and conditions.

Items to submit for project approval: To qualify for incentives, please submit the following:

1. Dated sales receipt/invoice (to confirm date of equipment installation).
2. Completed and Signed Customer Incentive Application/Agreement for Lighting Incentives (2 pages).
3. Completed Rocky Mountain Power lighting software tool.
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 a lighting calculation software tool 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 projects. 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? Incentives for new construction/major renovation lighting upgrades are available via a post-purchase incentive application process. Applying prior to placing purchase orders is recommended but not required.

NEW CONSTRUCTION/MAJOR RENOVATION HIGH EFFICIENCY LIGHTING (CONT.)
Table 1. New Construction and Major Renovation Lighting Incentives

Category	Install	Customer Incentive
Premium T8 Fluorescent Fixture Upgrade [Lamps with initial lumens \geq 3100 or wattage \leq 30 W; electronic ballasts with BF \leq 0.8]	4' - 1 or 2 Premium T8 lamp(s) + Electronic Ballast (EB)	\$7
	4' - 3 or 4 Premium T8 lamps + EB	\$10
T5 Fluorescent Fixture Upgrade	2 T5HO lamps (nominal 4') + EB (interior fixtures)	\$20
	3 T5HO lamps (nominal 4') + EB (High Bay)	\$40
	\geq 4 T5HO lamps (nominal 4') + EB(s) (High Bay)	\$60
	1 T5 lamp (nominal 4') + EB (interior fixtures)	\$10
	2 T5 lamps (nominal 4') + EB (interior fixtures)	\$25
	3 T5 lamps (nominal 4') + EB (interior fixtures)	\$30
T8 Fluorescent Fixture Upgrade (High Bay)	4' \geq 4 T8 lamps + EB(s) (High Bay)	\$45
High Intensity Discharge (HID) Upgrades (Based on lamp wattages)	\leq 100W Ceramic Metal Halide	\$20
	$>$ 100W Ceramic Metal Halide	\$40
	$>$ 500W Pulse Start Metal Halide	\$30
Lighting Controls	Integral occupancy sensor (See Note 3)	\$25
LED Lighting	Indoor LED channel letter signage \leq 2' high	\$4/linear foot
	Indoor LED channel letter signage $>$ 2' high	\$6/linear foot
	Outdoor LED channel letter signage \leq 2' high	\$2/linear foot
	Outdoor LED channel letter signage $>$ 2' high	\$3/linear foot

Notes for new construction and major renovation lighting incentives:

1. The date of the building permit application shall establish the applicable version of the Idaho energy code.
2. The total connected interior lighting power for New Construction/Major Renovation projects required to comply with the energy code must be 10 percent lower than the interior lighting power allowance calculated according to applicable version of the Idaho energy code. For New Construction/Major Renovation projects not required to comply with the energy code, the total connected lighting power must be 10% lower than common practice as determined by the Company.
3. Incentives are not available for lighting controls required under the applicable version of the Idaho energy code.
4. Two-foot (2') U-tube lamps may be substituted for four-foot (4') linear fluorescent lamps in the lighting incentive table.
5. Electronic ballasts for High Bay fixtures are required to have a ballast factor \leq 1.2 to be eligible for incentives.
6. To determine the length of LED channel letter signs, measure the length of individual letter at the centerline and add the individual values; do not measure the distance between letters.
7. Incentives for LED traffic light installations are not available.

HO = High Output

VHO = Very High Output

LED = Light-emitting diode

Table 2. Energy Code Maximum Lighting Power Densities (LPD)

(2009 International Energy Conservation Code (IECC 2009), Table 505.5.2)

Building Area Type^a	(W/ft²)
Automotive facility	0.9
Convention center	1.2
Courthouse	1.2
Dining: Bar Lounge/Leisure	1.3
Dining: Cafeteria/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 ^b	1.5
School/University	1.2
Sports Arena	1.1
Town Hall	1.1
Transportation	1.0
Warehouses	0.8
Workshop	1.4

Footnotes for Table 505.5.2 of IECC 2009:

1. In cases where both a general building area type and a more specific building area type are listed, the more specific building area type shall apply.
2. Where lighting equipment is specified to be installed to highlight specific merchandise in addition to lighting equipment specified for general lighting and is switched or dimmed on circuits different from the circuits for general lighting, the smaller of the actual wattage of the lighting equipment installed specifically for merchandise, or additional lighting power as determined below shall be added to the interior lighting power determined in accordance with this line item.

HIGH-EFFICIENCY LIGHTING RETROFIT

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 as follows:

- *Prescriptive Incentives* are offered for common lighting improvements as shown in Table 3 and are subject to project incentive caps detailed below. Equipment listed in Table 3 is eligible for the listed incentive when retrofit on a one-for-one basis.
- *Custom Incentives* are offered for lighting retrofits where fixture counts change or the specific retrofit is not listed in Table 3. Incentives are not available for equipment listed only in the “Replace” column. Custom incentives equal \$0.08/kWh and are subject to project incentive caps as detailed below.
- *Incentive Caps:* Eligible incentives are limited for projects in two ways:
 - The incentive will be capped to maintain a simple payback greater than or equal to 1 year (including incentives).
 - The eligible incentive will be limited to 50% of the eligible project cost.

Prequalification Required? Yes. Contact a participating vendor or Rocky Mountain Power to get started. A pre-installation inspection of existing lighting may be required. 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 software tool 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 your EEA 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 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 Idaho Department of Environmental Quality and the fact sheet for waste lamp and ballast disposal. More information can be found on their website: http://www.deq.idaho.gov/waste/prog_issues/haz_waste/hazwaste.cfm

The fact sheet for waste lamp and ballast disposal can be found at:

http://www.deq.idaho.gov/waste/assist_business/haz_waste/lamp_and_ballast_fs_0509.pdf

Table 3. Retrofit Lighting Efficiency Requirements & Incentive Levels

Category	Replace	With	Customer Incentive
Fluorescent Fixture Upgrade to Standard T8 Fixtures [Standard T8 lamps and electronic ballasts with ballast factor (BF) ≤ 0.88]	4' - 1 or 2 T12 lamp(s) + 1 magnetic ballast (MB)	4' - 1 or 2 T8 lamps + 1 electronic ballast (EB)	\$5
	4' - 3 or 4 T12 lamp(s) + MB(s)	4' - 3 or 4 T8 lamps + EB	\$10
	8' - 1 or 2 T12 lamp(s) + MB(s)	4' - 2, 3 or 4 T8 lamps + EB	\$10
	8' - 1, 2, 3 or 4 T12 lamps + MB(s)	8' - 1, 2, 3 or 4 T8 lamps +EB	\$10
	8' - 1, 2, 3 or 4 T12 HO/VHO lamps + MB(s)	8' - 1, 2, 3 or 4 T8 HO/VHO lamps +EB(s) (See Note 5)	\$15
Fluorescent Fixture Upgrade to 4' Premium T8 Fixtures [Lamps with initial lumens ≥ 3100 or wattage ≤ 30 W; electronic ballasts with BF ≤ 0.8]	4' - 1 or 2 T12 lamp(s) + MB or Standard T8 lamp(s) + EB	4' - 1 or 2 Premium T8 lamp(s) + EB	\$10
	4' - 3 or 4 T12 lamps + MB(s) or Standard T8 lamps + EB	4' - 3 or 4 Premium T8 lamps + EB	\$15
	8' - 1 or 2 T12 lamp(s) + MB(s)	4' - 2, 3 or 4 Premium T8 lamps + EB	\$20
Fluorescent Delamping and Standard T8 Fixture Upgrade [Standard T8 lamps and electronic ballasts (EB) with BF ≤ 0.88. Fixture removal is not eligible]	4' - 2 T12 lamps + MB	4' - 1 Standard T8 lamp +EB	\$10
	4' - 3 T12 lamps + MB(s)	4' - 2 or 1 Standard T8 lamp +EB	\$15
	4' - 4 T12 lamps + MB(s)	4' - 3 Standard T8 lamps +EB	\$15
	4' - 4 T12 lamps + MB(s)	4' - 2 or 1 Standard T8 lamp +EB	\$25
Fluorescent Delamping and Premium T8 Fixture Upgrade [Lamps with initial lumens ≥ 3100 or wattage ≤ 30 W; electronic ballasts with BF ≤ 0.8. Fixture removal is not eligible]	4' - 2 T12 lamps + MB	4' - 1 Premium T8 lamp +EB	\$15
	4' - 3 T12 lamps + MB(s)	4' - 1 or 2 Premium T8 lamp +EB	\$20
	4' - 4 T12 lamps + MB(s)	4' - 3 Premium T8 lamps +EB	\$20
	4' - 4 T12 lamps + MB(s)	4' - 1 or 2 Premium T8 lamp +EB	\$30
T8 Fluorescent Lamp Upgrade	≥ 32 W T8 lamp	≤ 30 W T8 lamp (See Note 4)	\$0.50
Compact Fluorescent Lighting (CFL)	Incandescent	< 10W (nominal) CFL hardwire fixture	\$10
	Incandescent	≥ 10W, < 20W (nominal) CFL hardwire fixture	\$15
	Incandescent	≥ 20W (nominal) CFL hardwire fixture	\$20
	Incandescent	> 40W two-piece screw-in CFL	\$5
	Incandescent	Single-piece screw-in CFL (all wattages)	\$2
T5 Fluorescent Fixture Upgrade	≥ 250 W MH, MV or HPS	3 T5HO lamps (nominal 4') + EB (High Bay)	\$70
	≥ 400 W MH, MV, or HPS	4, 5, or 6 T5HO lamps (nominal 4') + EB (High Bay)	\$75
	4' - 4 T12 lamps + MB(s)	2 T5 lamps (nominal 4') + EB (interior fixtures)	\$30
	4' - 4 T12 lamps + MB(s)	2 T5HO lamps (nominal 4') + EB (interior fixtures)	\$25
High Intensity Discharge (HID) Upgrades (based on lamp wattages)	Incandescent or tungsten	≤ 100W Ceramic Metal Halide	\$25
	≥ 400W MH, MV or HPS	≤ 320W Ceramic Metal Halide	\$100
	≥ 750W MH, MV, or HPS	≤ 400 W Ceramic Metal Halide	\$120
	≥ 150W and ≤ 250W MH, MV, or HPS, or ≥ 150W incandescent	≥ 125W and ≤ 175W Pulse Start MH	\$60
	> 250W and ≤ 400W MH, MV, or HPS	≥ 175W and ≤ 320W Pulse Start MH	\$75
	> 400W MH, MV, or HPS	≤ 400W Pulse Start MH	\$100
	≥ 1000W MH, MV or HPS	≤ 750W Pulse Start MH	\$100

Category	Replace	With	Customer Incentive
High Intensity Discharge (HID) Upgrades (continued)	≥ 250 W & ≤ 750 W MH, MV, or HPS	4' - 4, 5, or 6 T8 lamps + EB(s) (High Bay)	\$75
	≥ 750 W MH, MV or HPS	4' - ≥8 lamp T8 + EB(s) (High Bay)	\$100
Exit Signs	Incandescent or fluorescent exit signs	Light Emitting Diode (LED) or Electro luminescent (EL) Exit Sign - 1 or 2 faced	\$15
Lighting Controls	Wall switch or no control	Wall or Ceiling Mounted Occupancy Sensor (per sensor)	\$30
	No control	Integral occupancy sensor	\$25
	No control	Photocell (per sensor)	\$20
	No control	Time clock (per control)	\$20
LED Lighting	Indoor incandescent, neon, or fluorescent signage	LED channel letter signage ≤ 2ft high	\$4/linear foot
		LED channel letter signage > 2ft high	\$6/linear foot
	Outdoor incandescent, neon, or fluorescent signage	LED channel letter signage ≤ 2ft high	\$2/linear foot
		LED channel letter signage > 2ft high	\$3/linear foot

Requirements for retrofits of existing lighting: To be eligible for the incentives listed, new fixtures must use less energy than the fixtures they replaced. For additional requirements, please refer to the lighting table notes below.

Notes for retrofit lighting incentives:

1. Incentives are capped at 50 percent of energy efficiency project costs and subject to a one-year payback cap.
2. Two-foot (2') U-tube lamps may be substituted for four-foot (4') linear fluorescent lamps in the lighting incentive table.
3. For retrofits of existing equipment, lighting incentives will be paid on a one-for-one equipment replacement basis. If fixture counts are changing, the project may be eligible for a custom energy efficiency incentive.
4. Incentives for T8 fluorescent lamp upgrades may not be combined with other fluorescent fixture incentives and will only be paid once per facility.
5. T8 high-output/very high-output (HO/VHO) and high bay T-8 electronic ballasts are required to have a ballast factor (BF) ≤ 1.2 to be eligible for incentives.
6. Lighting equipment listed only in the "Replace" column is not eligible for incentives.
7. To determine the length of LED channel letter signs, measure the length of individual letter at the centerline and add the individual values; do not measure the distance between letters.
8. Incentives are not available for LED traffic light upgrades.

CFL = Compact Fluorescent Lamp
HPS = High Pressure Sodium
LED = Light-emitting diode

HO = High Output
MV = Mercury Vapor
MH = Metal Halide

LED CHANNEL LETTERS

Measure Description: Channel letters are individually illuminated letters and graphics that are typically found on storefronts. Channel letters that are installed or retrofit with high efficiency LED illumination are eligible for incentives. Incentives for LED traffic light installations are not available.

Applicability: New construction/major renovation and retrofit projects may be eligible for incentives. For retrofit projects, LED technology must replace incandescent, neon or fluorescent illumination.

Equipment Eligibility: Equipment must be purchased and installed, and meet all other program terms and conditions.

Items to Submit with the Incentive Application:

1. Dated sales receipt/invoice with install date and retailer/contractor name, address and phone number.
2. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

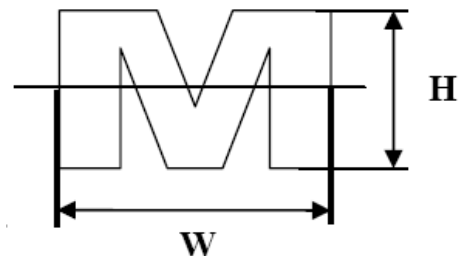
Prequalification Required? No. Incentives are available via a post-purchase incentive application process. Applying prior to placing purchase orders is recommended but not required.

Table 4. Channel Letter Efficiency Requirements, Incentive Levels & Equipment Codes

Location	Type	Letter Height	Incentive / Unit	Equipment Code
Indoor	Retrofit	≤ 2 ft. High	\$ 4 / Linear ft.	LEDCIR
		> 2 ft. High	\$ 6 / Linear ft.	LEDCIR
	New Construction	≤ 2 ft. High	\$ 4 / Linear ft.	LEDCIN
		> 2 ft. High	\$ 6 / Linear ft.	LEDCIN
Outdoor	Retrofit	≤ 2 ft. High	\$ 2 / Linear ft.	LEDCOR
		> 2 ft. High	\$ 3 / Linear ft.	LEDCOR
	New Construction	≤ 2 ft. High	\$ 2 / Linear ft.	LEDCON
		> 2 ft. High	\$ 3 / Linear ft.	LEDCON

To calculate the incentive, conduct the following steps:

1. Measure the width of each individual letter at the centerline. **Do not** measure the distance between letters.
2. Measure the height of each letter (H).
3. Select the incentive associated with the Project Type and Letter Height (H).
4. Multiply the incentive in Table 4 by the letter width (W).
5. Add the incentive for each letter to calculate the total incentive.



Note: Rocky Mountain Power has a lighting calculation software tool available for vendors participating in our Energy Efficiency Alliance (EEA) to calculate project-specific energy savings, project economics, and eligible incentives for LED Channel Letter projects. Visit our website at rockymountainpower.net/wattsmart for a current list of participating vendors.

LED MESSAGE CENTER SIGNS

Measure Description: Message center signs display text and are commonly found on storefronts, restaurants, and arenas.

Applicability: Message center retrofit projects that replace incandescent, neon or fluorescent lamps with LED illumination are eligible for incentives. **New installations of message center signs are not eligible for incentives.**

Equipment Eligibility: To calculate incentives for message center signs, please contact your sign vendor or Rocky Mountain Power prior to purchasing equipment. Equipment must be purchased and installed, and meet all other program terms and conditions.

Items to submit for project approval:

1. Dated sales receipt/invoice with install date and retailer/contractor name, address and phone number
2. A completed copy of Table 5.
3. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification required? Yes. Complete Table 5 and contact a participating vendor or Rocky Mountain Power to get started. Sign a FinAnswer Express Incentive Agreement before you sign any purchase orders for equipment or installation contracts.

Note: Rocky Mountain Power has a lighting calculation software tool available for vendors participating in our Energy Efficiency Alliance (EEA) to calculate project-specific energy savings, project economics, and eligible incentives for retrofit LED Message Center Sign projects. Visit our website at rockymountainpower.net/wattsmart for a current list of participating vendors.

Table 5. LED Message Center Sign Information Table

Customer Name	
Facility Address	
Facility City, State, Zip	
Rocky Mountain Power Account Number	
Rocky Mountain Power Rate Schedule	
Rated power use of existing sign (watts)	
Rated power use of new LED sign (watts)	
Estimated Project Cost	
Weeks Operated per year	
Open major holidays (circle one)	YES NO

Operating Schedule (hours in use per day)						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
LEDMSG	LED Message Center Sign	\$0.08 / kWh annual energy savings (50% cost cap and 1-year simple payback cap apply)

*To calculate project savings and incentives, contact Rocky Mountain Power on our energy savings hotline at **1-800-222-4335** or via e-mail to: [id.lighting@rockymountainpower.net](mailto: id.lighting@rockymountainpower.net). Energy and demand savings are subject to Rocky Mountain Power approval.