

Simple Lighting Application (v2.4)

LIGHTENUP - Existing Buildings & Facilities
 Pages 2 & 3: Incentive and Savings worksheet

Fort Collins Utilities is offering a 50% Bonus Rebate for new projects completed in 2012! Bonus is already calculated for projects in Fort Collins.



Existing Fixture Equipment	Retrofit or Replace Existing Fixture with:	Fixture Quantity	Rebate per fixture	Potential Incentive	Multiply by System Wattage Savings	Total Wattage Savings
BALLAST FACTORS: LOW < .80, NORMAL = .80 - .95, HIGH > .95		A	B	A x B = C	D	A x D = F
4-foot fluorescent: T8 lamps and electronic ballasts replacing T12 and magnetic ballasts or Standard T8 and electronic ballasts						
1-lamp T12 or T8 with magnetic or electronic ballast	1-lamp F32T8 (32-W) with high efficiency* electronic ballast (LOW ballast factor)		\$8	\$	18	W
	1-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$9	\$	21	W
2-lamp T12 or T8 with magnetic or electronic ballast	2-lamp F32T8 (32-W) with high efficiency* electronic ballast (LOW ballast factor)		\$10	\$	24	W
	2-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$13	\$	30	W
3-lamp T12 or T8 with magnetic or electronic ballast	3-lamp F32T8 (32-W) with high efficiency* electronic ballast (LOW ballast factor)		\$16	\$	42	W
	3-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$19	\$	49	W
	2-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$29	\$	73	W
4-lamp T12 or T8 with magnetic or electronic ballast	4-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$21	\$	60	W
	3-lamp F32T8 (32-W) with high efficiency* electronic ballast (NORMAL ballast factor)		\$21	\$	60	W
	3-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$27	\$	78	W
	2-lamp F32T8 (32-W) with high efficiency* electronic ballast (NORMAL ballast factor)		\$31	\$	89	W
	2-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$36	\$	102	W
BONUS: Delamping T12 or T8 fixture 4 ft or less, <i>see requirements</i>	Retrofit kit or new fixtures used to de-lamp		\$10	\$	included in savings above	
8-foot fluorescent: 4-foot T8 lamps and electronic ballasts (new or retrofit kit) replacing 8-foot T12 and magnetic ballasts						
1-lamp F96T12 (60 or 75-W) with magnetic ballast	2-lamp F32T8 (32-W) with high efficiency* electronic ballast (LOW ballast factor)		\$13	\$	54	W
	2-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$15	\$	66	W
2-lamp F96T12 (60 or 75-W) with magnetic ballast	4-lamp F32T8 (32-W) with high efficiency* electronic ballast (LOW ballast factor)		\$15	\$	60	W
	4-lamp F28T8 (28-W) with high efficiency* electronic ballast (LOW ballast factor)		\$21	\$	84	W
	2-lamp F32T8 (32-W) with high efficiency* electronic ballast (HIGH ballast factor)		\$26	\$	106	W
	2-lamp F32T8 (32-W) with high efficiency* electronic ballast (NORMAL ballast factor)		\$35	\$	142	W
2-lamp F96T12HO/VHO (95 or 110-W) with magnetic ballast	4-lamp F32T8 (32-W) with high efficiency* electronic ballast (NORMAL ballast factor)		\$47	\$	190	W
	4-lamp F32T8 (32-W) with high efficiency* electronic ballast (HIGH ballast factor)		\$28	\$	112	W
BONUS: Delamping T12 or T8 fixture for 8 ft fixtures, <i>see requirements</i>	Retrofit kit or new fixtures used to de-lamp		\$10	\$	included in savings above	
High-bay & Low-bay lighting: NEW fluorescent fixture replacing high-intensity discharge						
400-W metal halide, mercury vapor, or high-pressure sodium	6-lamp F32T8 with high efficiency* electronic ballast (HIGH ballast factor)		\$95	\$	237	W
	4-lamp F54T5HO (54-W) with electronic ballast		\$90	\$	224	W
250-W metal halide, mercury vapor, or HPS	4-lamp F32T8 with high efficiency* electronic ballast (NORMAL ballast factor)		\$71	\$	178	W
175/150-W metal halide, mercury vapor, or high-pressure sodium	4-lamp F32T8 with high efficiency* electronic ballast (LOW ballast factor)		\$43	\$	109	W
	2-lamp F54T5HO (54-W) with electronic ballast		\$35	\$	87	W

Existing Fixture Equipment	Retrofit or Replace Existing Fixture with:	Fixture Quantity	Rebate per fixture	Potential Incentive	Multiply by System Wattage Savings	Total Wattage Savings
Compact fluorescent, LED, CMH: GU24 compact fluorescent, ceramic metal halide, or LED bulb replacing equivalent incandescent						
Incandescent (existing is less than 100 Watts)	GU24 based CFL with conversion kit (max. 25 Watts)		\$6	\$	57	W
Incandescent R/PAR lamps (90-150 Watts)	GU24 based CFL with conversion kit (max. 25 Watts)		\$9	\$	88	W
Halogen/Incandescent MR/R/PAR or other lamps (max 60 Watts)	LED Replacement Bulb or CMH R/PAR lamp, (ENERGY STAR or LM 79/80 Tested)		\$15	\$	53	W
Hard-Wired for Compact fluorescent and LED: fixture with pin-based compact fluorescent or GU24 socket conversion kit						
Incandescent	NEW hardwired compact fluorescent, LED or ceramic metal halide fixture (7 to 49 input Watts)		\$22	\$	54	W
	GU24 based compact fluorescent with medium based conversion kit (max 25 Watts)		\$11	\$	57	W
Exit sign replacement: LED exit sign replacing incandescent or compact fluorescent exit sign						
incandescent or fluorescent exit sign	LED exit sign		\$10	\$	27	W
Occupancy Sensor:						
Manul Switch	Occupancy Sensor (per controlled fixture rebate)		\$7	\$	0	W
Vending machine - no control	Vending machine with occupancy sensor		\$90	\$	100	W
Incentive & Savings Calculation (Required)						
Project Cost, (I) (includes materials, labor, and other related costs)	\$		TOTALS (G)	\$	TOTALS (H)	W
100% Project Cost Cap, (J)	\$		<p>*ALL T8 ELECTRONIC BALLASTS MUST BE "HIGH EFFICIENCY" that meet or exceed the Ballast Efficacy Factor as described for ballasts in the CEE (Consortium for Energy Efficiency) High Performance T8 ballast specification. For the most list of qualifying ballasts, visit www.cee1.org.</p> <p><1> Fort Collins projects must be completed by December 31, 2012 to receive the bonus rebate. Total rebate cannot exceed 70% of project cost</p>			
Fort Collins 50% Bonus Rebate, (K = G x 1.5), Fort Collins Only <1>	\$					
Actual Incentive, (L) lessor of G or J, or Fort Collins, lessor of (K+G) or (Ix70%)	\$					

All incentives are subject to change without notice and are subject to a project incentive limit or if simple payback is greater than 15 years. Contact Platte River Energy Services to ensure that you have the most recent application and that funds are available.

Project Economics		Alternative Electric Rate Table (\$/kWh) (N)				
<i>Electric cost savings</i>		<i>City Utility</i>				
Total kW reduction, (L) (Box H/1,000)	kW	The typical average electric rate for all cities is \$0.07/kWh. For a more accurate rate, choose the average electric rate below based on the project's location and annual lighting hours. (average electric rate = energy + demand rate)				
Annual lighting hours, h/yr (from page 1), (M)	hours/yr	Annual Lighting Hours h/yr (L)	Estes Park	Fort Collins	Longmont	Loveland
Annual electricity savings, kWh/yr, L x M = (N)	kWh/yr	2,000	\$0.097	\$0.071	\$0.073	\$0.076
Average electric rate, \$/kWh (for more accurate electric rate, select from table on the right) (O)	\$/kWh	3,000	\$0.088	\$0.070	\$0.073	\$0.076
		4,000	\$0.078	\$0.068	\$0.070	\$0.072
Annual electricity cost savings per yr, O x N = (P)	\$/yr	5,000	\$0.071	\$0.066	\$0.064	\$0.067
		6,000	\$0.067	\$0.066	\$0.057	\$0.063
Simple Payback with incentive, # of years (I K) / P - <u>must be less than 15 years to qualify for rebate</u>	years	7,000	\$0.065	\$0.065	\$0.050	\$0.059
		8,000	\$0.060	\$0.062	\$0.049	\$0.057
		Energy Rate Only	\$0.097	\$0.071	\$0.073	\$0.076

****Limitations to this application**

This Standard Lighting Application shows the more common lighting retrofits and may not fit your project potential for optimizing Watt reduction savings. There are retrofit scenarios that may result in more savings, but are not included in this application, such as: delamping, removing or adding fixtures, advanced controls, etc. We recommend that you use the Custom Lighting Application process and worksheet to optimize the savings and incentive potential for your custom project. Contact Platte River Energy Services for more information on the Custom Lighting Application, or download it at www.prpa.org.

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Page 4 & 5: Sign Request for Payment

(This to be signed and submitted only upon completion of the project.)

Rebate Amount

Est Annual Savings



PLATTE RIVER
POWER AUTHORITY

Estes Park • Fort Collins • Longmont • Loveland

Customer:	
Approval Code±:	

Approval code is required prior to starting work if the incentive is expected to exceed \$1,000. Applications must be submitted to Platte River Energy Services.

Sign Request for Payment

Upon completion of the project, the customer must update the application to accurately reflect the completed project, sign the Request for Payment to indicate agreement with the Terms & Conditions, and send the entire application and project invoices to Platte River to request payment. At the bottom of the application, the customer can request the payment to a different location or company. If this is left blank, payment will go to the Project Site Company Address (or Mailing Address, if given). Platte River requires that the recipient of the incentive payment complete the W9 "Request for Taxpayer Identification Number and Certification" be completed in order to receive payment. The Rebate Amount and Est. Annual Savings values listed above MUST match the "Actual Incentive" and "Annual electric savings" respectively on Page 3 - Determine Incentive of the final application.

Terms and Conditions

1. The undersigned (Customer) hereby certifies that this Project has been completed to his or her satisfaction, and that this application accurately reflects the Project. Specifically, the Customer is satisfied that the Project has resulted in a sufficient quality and quantity of light for the Customer's current use. Furthermore, with regard to the accuracy of the application, the old and new fixture descriptions reflect the actual fixtures; the old fixtures have been permanently removed; the new fixtures have been installed and are operational; all fixture quantities are correct; and the attached invoices reflect project costs.
2. Customer shall reimburse Platte River a pro-rated portion of the incentive should Platte River find, in its sole discretion, that the project has been completed in such a way that its energy savings are reduced. Pro-rating shall be done based on the reduction in energy savings and the incentive rates originally provided to determine the incentive. This reimbursement obligation shall remain in effect for two years following the date of this Request for Payment. If the Customer feels that the Project scope needs to be changed in order to maintain adequate system performance, such changes should be made and included in an updated application before submitting this Request for Payment.
3. Customer may not apply for incentives for installing compact fluorescent lamps in fixtures that previously contained them. Incentives are provided only to convert from incandescent to compact fluorescent once.
4. The permanent removal of lamps, ballast and sockets is required to qualify for incentives for de-lamping a fixture.
5. Existing fixture input wattage claimed that is different (or higher) than wattage listed in the applications must be verified.
6. Upon Platte River's request and reasonable notice, Platte River representatives will be given access to the project site, both before and for two years after installation so they may verify equipment characteristics, quantities, and performance.
7. To maximize funding available for incentives, Platte River maintains a limited budget for verifying project performance. Applications containing inflated wattage values may not be funded.
8. Incentives are based on the verified wattage reduction and cost of the project, which may be found by Platte River, in its sole discretion, to be different from the values shown in the application. If this occurs, Platte River will provide notification of the difference and give the customer, contractor, or vendor the opportunity to ask for a review of the findings or to remedy the discrepancy before adjusting the incentive.
9. Platte River does not guarantee the estimated energy cost savings. Furthermore, Platte River makes no warranties for materials provided by or work performed by customer's contractors, vendors, consultants, or customer's own employees. Platte River is not responsible for errors in or misrepresentations of the incentive amount by contractors, consultants, or vendors.
10. Customer is responsible for securing any permits for work funded through this program as required by local codes. The customer shall comply with and require contractors and employees to comply with all applicable federal, state, and local regulations, requirements, ordinances, and statutes.
11. Customer agrees to ensure that potentially hazardous or regulated wastes (e.g., PCB-containing ballasts, fluorescent lamps, high-intensity discharge lamps, etc.) are handled and disposed of in compliance with applicable federal, state, and local laws and regulations.
12. In consideration of receiving the incentives stated herein, Customer shall indemnify, protect, defend and hold harmless, Platte River, its board members, directors, officers, employees, partners, principals, contractors, agents, and representatives, from and against any and all claims, costs, damages, demands, expenses, fines, judgments, liabilities, losses, penalties, and remedial actions of any kind, including but not limited to, reasonable attorneys' fees and the costs of defense arising, directly or indirectly, in whole or in part, out of Customer's participation in the LightenUP Program, the performance of the project, or the provision of assistance and incentives by Platte River related to the LightenUP Program].
13. Customer shall require that all parties, contractors or subcontractors, implementing the proposals and/or project that are the subject to this Agreement maintain comprehensive general liability insurance in amounts not less than \$500,000 each person /\$1,000,000 each occurrence for bodily injury, and \$500,000 each occurrence/\$1,000,000 in aggregate for property damage. If the Customer is implementing the proposals and/or project, the Customer shall maintain insurance amounts specified herein.

14. Payments provided by utilities (including Platte River) to Customers for the purchase or installation of energy conservation measures may in some circumstances be considered as (partially) taxable income by the IRS. Customers or their assigns receiving incentive payments totaling \$600 or more during a program year and who are not organized as a corporation will receive a 1099-MISC from Platte River in January or February of the subsequent year. Customer, or alternate payment recipient, may wish to consult a tax advisor on this matter.

15. Incentive funds will be reserved for no later than 30 days beyond the completion date listed in this application (on Page 3), Customer shall notify Platte River in writing immediately if completion of the project is expected to be delayed beyond this time. Platte River will seek to provide funds for projects that are delayed, provided such funds are available, but is under no obligation to do so.

16. Small changes in the project scope are expected and do not require any action until the project is completed. If you find a few more or fewer fixtures than you indicated in your application, just complete the retrofit and update the application before submitting it for payment. The same goes if you find a couple of different types of lighting fixtures that are similar to those in your original application. However, if anything changes that will significantly affect the total incentive amount (more than 10%), you should contact Platte River for approval. Incentive amounts will not be increased simply because existing fixtures were found to have higher wattage or new fixtures were determined to have lower wattage than listed in the approved application, unless such changes also result in changes in the project scope and/or cost (e.g. PCB ballast recycling costs, more fixtures retrofitted or replaced, etc). If you are unsure how changes in your project might affect your incentive, contact Platte River for assistance.

I have read, understood, and agree to the terms and conditions listed above. The undersigned hereby certifies that the project has been completed as described in this application and/or proposal and that you (the Customer) are satisfied with the performance of the new lighting system and equipment; including but not limited to: operation, light quantity and quality, energy savings.

Customer Signature _____ Date: _____

Name: _____ Phone: _____

Title: _____

Alternate incentive payment recipient:

Complete this section only if you want the incentive payment to go to someone other than the utility's customer of record at the project site.

Alternate incentive payment recipient:

Company:		Contact person:	
Mailing address:		Phone:	
City, state, zip:		Notes:	

I authorize Platte River Power Authority to make the incentive payment to the identified party.

Customer Signature _____ Date: _____

Title: _____