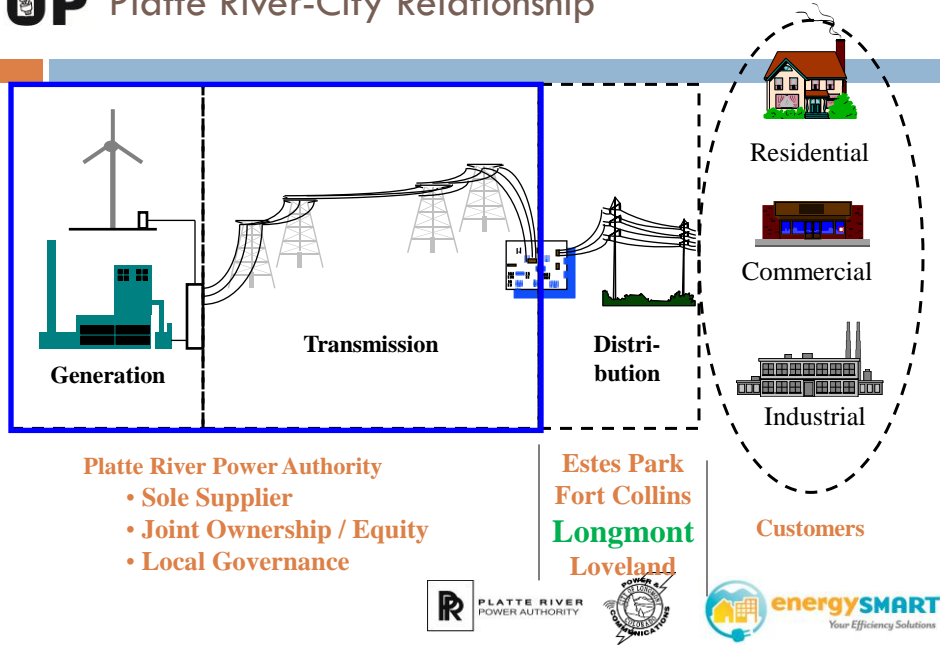


LIGHTEN UP Platte River-City Relationship



LIGHTEN UP Current Platte River Efficiency Programs

Commercial

- ▣ LIGHTENUP
- ▣ Electric Efficiency Program
 - Prescriptive and custom rebates for new and existing buildings
- ▣ Building Tune-up Program (RCx) for existing buildings
- ▣ Efficiency Express (NEW GEO Main street Grant 2011)

Residential

- ▣ Lighting with a Twist
- ▣ ENERGY STAR New Homes
- ▣ SELECT HVAC



LIGHTEN UP Current Lighting Efficiency Programs

- ▣ **LIGHTENUP – Existing Buildings**
 - Retrofits/replacement of fixtures and redesigns in existing buildings; both interior and exterior
 - Rebate based on a \$0.00 per Watt reduction calculated by lighting rebate applications

- ▣ **Electric Efficiency Program for New Construction**
 - Based designing lighting system lower that required by ASHRAE/IESNA 90.1 – 2004 Watts per square foot for building type
 - Rebate based on \$0.50 per Watt reduction from code.



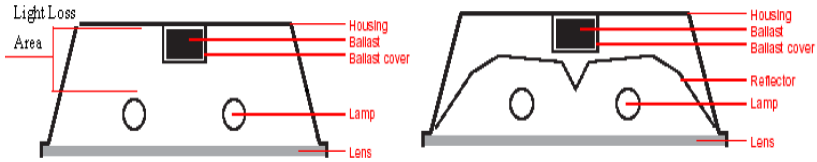
LIGHTEN UP LIGHTENUP Rebate Summary 2011

Fixture type		\$./Watt	With New Bonus for Retrofit Kits +\$0.10/Watt
4 ft T12 /magnetic ballast	4 lamp	\$0.35	\$0.45
	3 lamp	\$0.40	\$0.50
	1, 2 lamp	\$0.45	\$0.55
8 ft T12 linear fluorescents		\$0.50	\$0.60
T8 Retrofits		\$0.55	\$0.65
HID to Induction Replacements		\$0.40	
LED replacement lamps to LED fixtures		\$0.30 to \$0.50	
GU24 based CFLs with conversion kit		\$0.20	
400W HID to High Bay Fluorescents		\$0.40	
Automatic Controls and other		\$0.40	





Why Retrofit Kits (RFK)?



- ✓ Increasing fixture efficiency increases the amount of useable light from the fixture
- ✓ Save more energy by using lower ballast factor ballasts and lower wattage lamps
- ✓ Higher rebates from us!
- ✓ Better quality retrofit with new lamp holders and reflectors



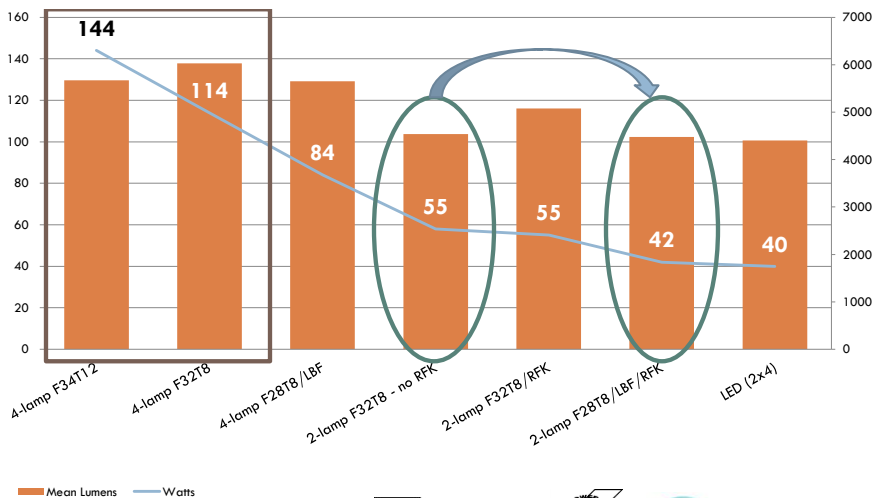
PLATTE RIVER POWER AUTHORITY



energySMART
Your Efficiency Solutions



4 lamp T12 Retrofit Kit



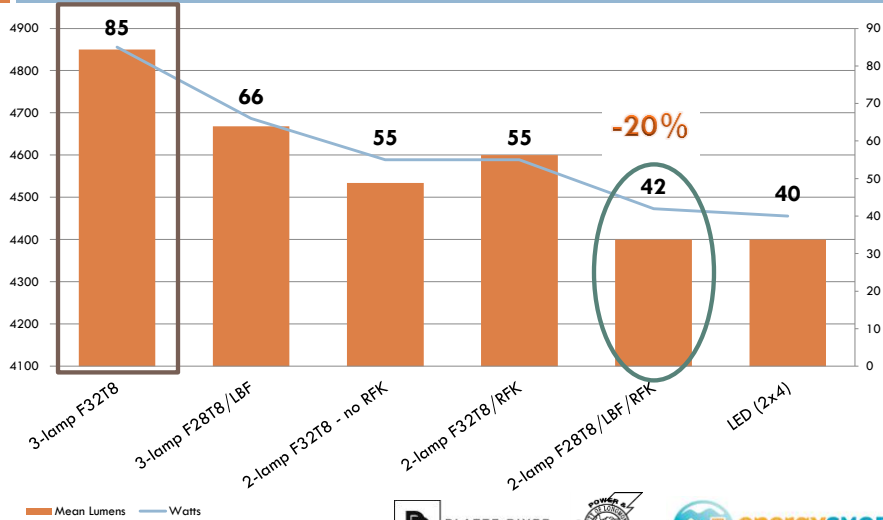
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3 lamp T8 Retrofits



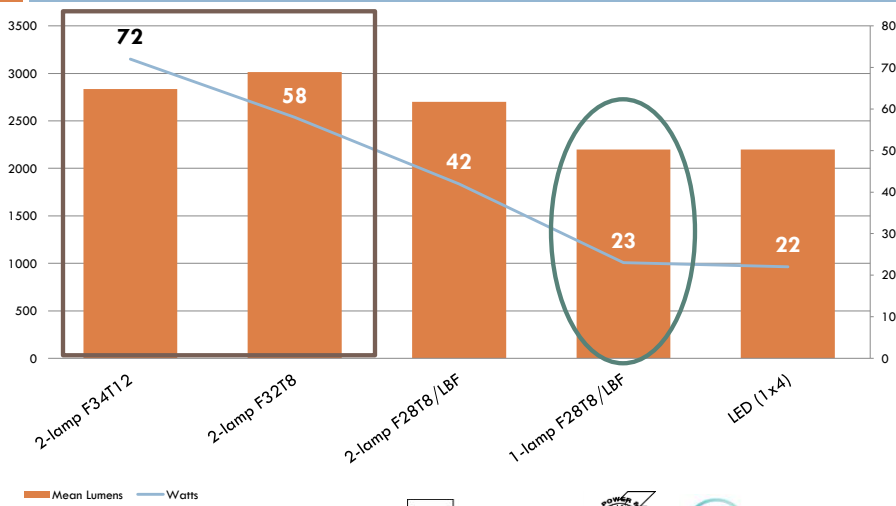
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2 lamp Retrofits



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Your Efficiency Solutions



Tools you need to be a de-lamping “Retro Lighting Expert”

1. Light Meter (foot candles)– is there an app for that?
2. Illumination Guide and/or IESNA Handbook
3. Retrofit Kit Specifications Guide

Space Type (A)	Current Average FC level (B)	Target IESNA Average FC Level (C)	Est. % change light levels for Retrofit (D)	Est. FC Change (E)	Est. New FC Level
<i>Example:</i> Office	50 fc	30 to 50 fc	-15%	- 7 fc	43 fc
<i>Retrofit Description for above example: Existing 4 lamp T12 & Magnetic Ballasts retrofitting with new 2 lamp (28W) T8 & HE LBF Elec Ballast and new retrofit kit.</i>					



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Platte River Test





Existing	Proposed	Rebate per Watt Reduction	Est. Rebate per fixture	Est SPB in years with rebate	Light level change
2 T8 (28W) lamps std NBF electronic ballast = 48W	1 T8 (28W) lamp HE LBF (.78 BF) electronic ballast or LED fixture = 22W	\$0.65	\$23	2 to 3 (1L T8) 5 to 7 (LED)	0 to -5% ~ 35 fc



De-lamping T12 Retrofit Kit Rebates

Fixture Description	Retrofit	Est. per Fixture Rebate	Est. per Fixture Rebate with Bonus	With Energy Smart Rebate
4 lamp T12 & Magnetic Ballasts	2 lamp (32W) T8 & HE NBF Elec Ballast or 2 lamp (28W) T5	\$31+	\$40+	\$49+
	2 lamp (28W) T8 & HE LBF Elec Ballast	\$35+	\$46+	\$55+
	LED Replacement (36W)	NA	\$48+	NA
2 lamp 4 ft T12 & Magnetic Ballast	1 lamp (28W) T8 & HE LBF Elec Ballast	\$23+	\$28+	\$37+



De-lamping T8s Retrofit Kit Rebates

Fixture Description	Retrofit	Est. per Fixture Rebate	Est. per Fixture Rebate with Bonus	with Energy Smart Rebate +\$26
4 lamp T8 & Elec Ballast	2 lamp (32W) T8 & HE NBF Elec Ballast or 2 lamp (28W) T5	\$32	\$38	\$64
	2 lamp (28W) T8 & HE LBF Elec Ballast	\$39	\$47	\$73
	LED Replacement (40W)	NA	\$50	NA
3 lamp T8 & Elec Ballast	2 lamp (800) T8 & HE NBF Elec Ballast or 2 lamp (28W) T5	\$17	\$20	\$46
	2 lamp (28W) T8 & HE LBF Elec Ballast or T5	\$23	\$28	\$54
	LED Replacement (40W)	NA	\$31	NA
2 lamp T8 & Elec Ballast	1 lamp (28W) T8 & HE LBF Elec Ballast	\$20	\$23	\$49
	LED Replacement (22W)	NA	\$23	NA





Applications will do the work for you

□ LIGHTENUP Custom Lighting Application (v7.3)

www.prapa.org

SEARCH

Platte River Power Authority is a not-for-profit utility that generates and delivers reliable, low-cost and environmentally responsible electricity to its owner communities of Estes Park, Fort Collins, Longmont and Loveland, Colorado, where it is distributed by each municipal utility to residents and businesses.

Platte River's Headquarters is located in Fort Collins and its generation and transmission facilities are located along Colorado's Front Range, in northwestern Colorado and near Cheyenne and Medicine Bow, Wyoming.

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Energy Efficiency

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Get Started!

1. Assess what is the energy efficient project, we can help too!
2. Propose project and rebate to customer
 - See "Longmont Commercial Lighting Rebate Guide"
3. Once customer commits, submit to Platte River for pre-approval
4. Complete Project
5. Submit final paperwork to Platte River
6. Receive payment with in 4 to 6 weeks
 - ❖ Rebate can be paid to contractor or customer
7. **Submit to EnergySmart for rebate**





Contact us.

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