

Boulder County Commercial Energy Efficiency Pilot (CEEP)

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Do you remember how the Easy-Bake Oven baked a cake?



Which Bulb is Better?

Bulb A

- 5% efficient
- Last 2,000 hours
- 60 watts
- \$230.61 - cost of using for 60,000 hours

Bulb B

- 20% efficient
- Last 10,000 hours
- 14 watts
- \$60.72 - cost of using for 60,000 hours



How you heard about EISA?

In December 2007, President Bush signed the Energy Independence and Security Act (EISA) – a performance standard for lighting



Inefficient Lighting Phasing Out

January 1, 2011

- Platte River Power Authority will reduce existing rebates 20% (\$0.10 per watt reduction) for T12s, GU24 based CFLs, and High Intensity Discharge (HID) to high bay fluorescents



January 1, 2012

- Most common 100-watt incandescent lamps cannot be manufactured or imported for sale



Inefficient Lighting Phasing Out

July 14, 2012

- Standard 4 and 8-foot linear T12 and all 2-foot U-bend T12s are eliminated
- Standard halogen lamps in all categories are eliminated (PAR38, PAR30, PAR20)



- Magnetic ballasts used for T12 linear fluorescents already cannot be manufactured for commercial or industrial applications



Inefficient Lighting Phasing Out

January 1, 2013

- Most common 75-watt incandescent lamps are phased-out

January 1, 2014

- Most common 40 and 60-watt incandescent lamps are phased-out

January 1, 2020

- Minimum efficacy (light emitted per input power) levels must be 45 lumens per watt or higher



Case Study - Budget Home Center

- 79,000 square feet of retail/warehouse space
- Lighting upgrade completed October 2009



Case Study - Budget Home Center

- Showroom/Warehouse:
 - Replaced 132 400-watt metal halide fixtures with 6-lamp, 4-foot 32-watt T8 linear fluorescent high bay fixtures with automatic controls
- Aisle Display/Office/Restroom Fixtures:
 - Replaced 211 40-watt T12 linear fluorescent fixtures with 32-watt T8 linear fluorescent lamps; reduced number of lamps per fixtures



Case Study - Budget Home Center Estimated Savings

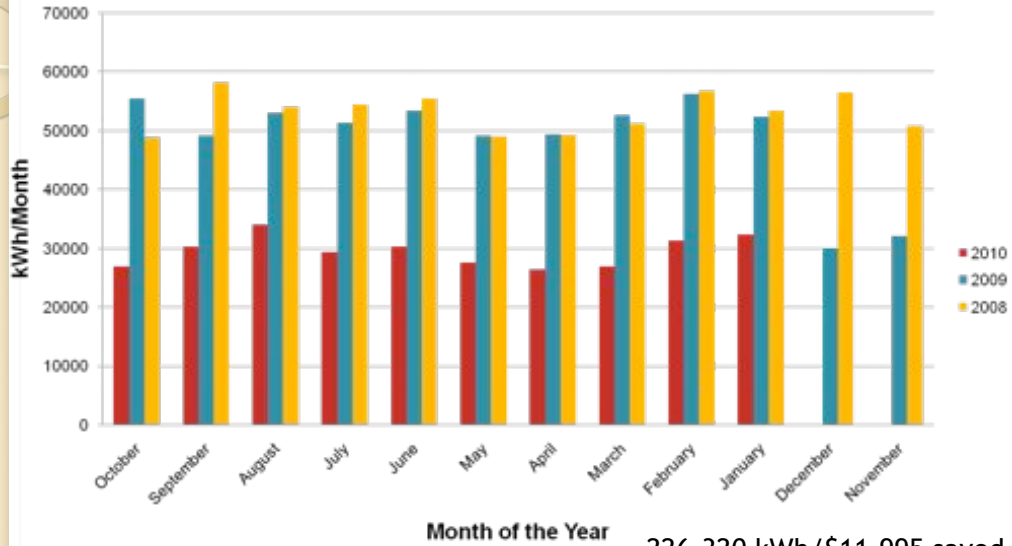
- Annual Lighting Hours - 4,563
- Average Electric Rate - \$0.053
- Annual kWh Savings/Year - 298,925
- Annual Savings - \$15,981; \$0.20 square foot

Costs

- Total Project Cost - \$65,299
- Platte River Power Authority Rebates - \$35,998
- Longmont Matching Grant - \$5,000
- Capital Investment - \$25,301; 1.52 year payback



Budget Home Center



226,320 kWh/\$11,995 saved in 10 months - compared to 2009 usage



Case Study - Front Range Flea Market

- 21,000 square feet of retail space
- Lighting upgrade completed May 2010



Case Study - Front Range Flea Market

- Replaced 45 400-watt metal halide fixtures with 4-lamp, 4-foot linear 54-watt T5HO fluorescent high bay fixtures
- Replaced 5 34-watt T12 linear fluorescent fixtures with 32-watt T8 linear fluorescent lamps



Case Study - Front Range Flea Market

Estimated Savings

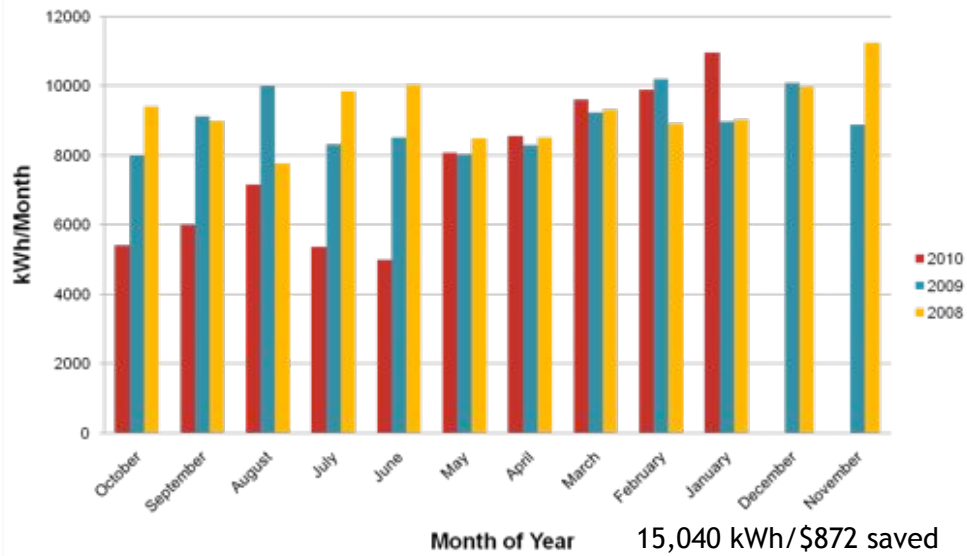
- Annual Lighting Hours - 3,120
- Average Electric Rate - \$0.058
- Annual kWh Savings/Year - 36,367
- Annual Savings - \$2,112; \$0.10 square foot

Costs

- Total Project Cost - \$11,600
- Platte River Power Authority Rebates - \$5,692
- Longmont Matching Grant - \$2,428
- Capital Investment - \$3,480; 1.68 year payback



Front Range Flea Market



15,040 kWh/\$872 saved
in 5 months - compared
to 2009 usage



Boulder County Rebates Overview

Phase I Lighting Rebates

- Projects completed November 1, 2010 through March 31, 2011
- \$5,000 cap per business
- \$120,000 pool of funds
- First Come, First Serve



Lighting Rebates - Customer Eligibility

- Commercial and institutional properties in Boulder County, excluding public and government
- No new construction or major renovation
- Projects that already received Longmont Matching Grant or Climate Smart Loan Bonus Rebate are not eligible
- New projects are eligible



Pilot Rebates - Eligible Measures

- Fluorescent T12 to T8 or T5 upgrades
- HID lamp to high bay fluorescent upgrades
- Hardwired CFL system upgrades
- Metal Halide upgrades
- LED exit signs
- LED lamp upgrades



Federal Tax Deduction Through December 31, 2013

- Buildings that save 50% or more of projected annual energy costs are eligible for \$1.80 square foot tax deduction
- Buildings that save a percentage of projected annual energy costs of the following are eligible for \$0.60 square foot tax deduction:
 - Building Envelope (walls, roof) - 10% savings
 - Lighting - 20% savings
 - Heating & Cooling - 20% savings

http://energytaxincentives.org/uploaded_files/commercialflyer.pdf



Thank you

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