



Lighting Retrofit Project

History

- April 2005 Coloradoan article featuring Mike Doran with Energy Solutions was the inspiration for lighting retrofit (Energy Solutions Unlimited is a Fort Collins wholesale lighting company specializing in retrofitting businesses with more efficient lighting) & utilizing lighting rebates
- Platte River Power Authority rebates—based on potential energy savings (www.prpa.org)
- 2005—The Cupboard mainly using Halogen spot lights

- The Cupboard approached Energy Solutions with the idea of retrofitting lights to save energy and money
- Halogen bulbs not only use more electricity, they also burn hotter.
 - Heat from spots was affecting overall temperature of store.

- 2005-2010—began retrofitting halogen lights with compact florescent lights
- Also replaced old T12 florescent ballasts with electronic T8 ballasts
- Old halogen lights were either reused, given away or recycled
- Old CFL lights were also reused or recycled
- Currently using 250 T8 bulbs
- By 2010, still using fifty 50 and 75 watt halogen lights

Spending money to Save money

- 2011 to 2013—Still utilizing PRPA rebates, we began replacing the remaining Halogen spots with LED lights.
- Halogen bulbs are around \$4 each but burn hot and use more electricity
- CFL bulbs are \$10 and use a fraction of the electricity
- LED bulbs last longest but are \$46 each

- Using PRPA rebates is key to making retrofit project cost-effective
- January 2005—electric bill was \$1624
- January 2013—electric bill was \$720!
- Energy use was reduced by almost 50%
- Currently we use 267 CFL lights and 50 LED lights.
- Project is ongoing—replacing remaining CFLs with LEDs











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