

Commercial Sector Energy Efficiency



EnergySmart @ Work



ClimateSmart



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Agenda

- **EnergySmart @ Work**
 - **Learn It** – Education and behavior change
 - **Tune It** – Streamlined equipment tuneup
 - **Change It** – Technical and financial assistance
- **Financial Incentives**
- **Case Studies**
- **Questions? Feedback?**
- **RFP**



EnergySmart @ Work – Overview

- **Learn It** – Education and behavior change
- **Tune It** – Streamlined equipment tuneup
- **Change It** – Technical and financial assistance



EnergySmart @ Work – Learn It

- **Learn It** – Education and behavior change

Working through:

- Business Associations
- Business Districts
- Business Types
- Connects business to focused implementation:
 - 10 for Change
 - Tune It
 - Change It



EnergySmart @ Work – Tune It – Options

- Whole Building
- Refrigeration
- Compressed Air



EnergySmart @ Work – Tune It – Piloting Now

Lighting and Temperature Controls



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HVAC Equipment Tuneup



PC Power Management



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EnergySmart @ Work – Sample Report



Boulder Tune-Up Report.xlsx



EnergySmart @ Work – Change It

Change It

- ✓ Implementation assistance
 - Interpreting audits
 - Finding a contractor
 - Rebate assistance
- ✓ Equipment Upgrade
- ✓ Financial incentives



Financial Incentives

- EnergySmart Longmont Rebates – *Since 2009, Available NOW*
- ClimateSmart Loan Program and Bonus Rebates – *Available NOW*
- EnergySmart @ Work Rebates – *Coming Fall 2010*



ClimateSmart Loan Program

The ClimateSmart Commercial Loan Program is now accepting applications. The program provides financing for energy efficiency and renewable energy projects. As a result of ARRA funding, loan program awardees will automatically receive Bonus Rebates to help reduce the loan amount needed.

- *Loan applications being accepted through **August 23rd** (just extended!)*
- *\$3,000 to \$210,000 available loan financing*
- *Bonus Rebates can fund up to 70% of energy efficiency project costs with a cap of \$10,000. Solar PV rebates are available outside of Xcel Energy's electric service territory*
- *Lots of eligible measures, some beyond utility offerings*
- *www.climatesmartloanprogram.org – includes bonus rebate estimator*



EnergySmart: Longmont

Implementation assistance offered to businesses in downtown Main Street participating in the Longmont EnergySmart, Matching Grant program in 2009 and 2010.

- *\$60,000 available each year on limited time basis*
- *Up to \$5,000/business, audit required*
- *Since August 2009:*
 - *30 audits*
 - *17 businesses implementing projects*



EnergySmart: Longmont

EnergySmart

By the numbers for the 17 businesses implementing projects:

- *Estimated Project Costs: \$147,000*
- *Annual Utility Savings: \$27,000*
- *PRPA/Xcel Rebates: \$65,000*
- *Cost Less Rebates: \$83,000*
- *Matching Grant: \$37,000*



Longmont YMCA | Longmont, CO



Overview

The Longmont YMCA provides facilities and programs that build healthy spirit, mind and body for all. Their facilities include gyms, fitness rooms, a pool, offices and locker/restrooms. Much of the high-ceilinged areas have been lit by inefficient, high-wattage lamps.

Project Description

The Longmont YMCA's basketball and racquetball courts, cardio room, and weight room are each lit entirely by 400-watt metal halide lamps. Metal halide to T8 lighting improved light quality and decreased energy use.

Powered by: PACE EnergySmart Longmont Commercial Efficiency Matching Grant Program

"Our largest single bill at the Y are utility bills. We did this to save electricity and to keep our membership rates from rising. The EnergySmart program made our part easy, and overall, the project was amazingly beneficial to membership savings. We've noticed a significant savings in energy consumption. On top of that, the quality of lighting in the gym has improved a great deal, there are no more blind spots. We could not recommend this program enough."

Miles McGaughey, Project Director

Lighting Retrofit (Completed 2009):

- Metal halide to T8 upgrade

Project Cost.....	\$13,937
Platte River Power Authority LighterUP Rebates.....	\$5,344
Longmont Commercial Efficiency Matching Grant.....	\$4,296.50
Project Cost After Rebates.....	\$4,297
Annual Energy Cost Savings (at current energy prices).....	\$2,283
Simple Payback (including incentives, at current energy prices).....	1.9 years
Lbs CO2 savings per year.....	265,313



2010 additional work: pool lighting
Brings matching grant to \$5,000 cap
www.energysmartatwork.com

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Brings Incentive total to \$7450
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Budget Home Center | Longmont, CO



Overview

Budget Home Center is a locally owned, independent retail home center with 25 year of experience in helping customers with their home improvement projects.

Project Description

Inefficient T12 lighting was upgraded to T8 lighting (with high efficiency electronic ballasts) in the shop, aisle displays, office and restrooms.

In the showroom and warehouse, 400 Watt metal halide fixtures were replaced with 6 lamp, 4 foot linear fluorescent high bay fixtures equipped with high efficiency electronic ballasts.

Powered by: PACE EnergySmart Longmont Commercial Efficiency Matching Grant Program

"We wanted to become "more green" and lessen our carbon footprint. And we wanted to save money, if possible, on our energy costs. We saw a 30% decrease in energy bills -- this project has been saving us between \$1,000 - \$1,200/month in energy costs!"

"The quality of the new lights is better than we had before--it is a cleaner light."

"[Anne Koenig with the EnergySmart Program] was more than helpful; she was terrific!! In addition to explaining the program, she got all the forms that were necessary and assisted with the forms and the filing of them."

Lighting Upgrade (Completed 2009):

- T12 to T8 upgrade
- Metal halide to high-bay T8 upgrade

Project Cost	\$65,299
Longmont Commercial Efficiency Matching Grant Program:	\$5,000
Platte River Power Authority LightenUP Rebate:	\$35,998
Project Cost After Rebates:	\$24,301
Annual Energy Cost Savings (At current energy prices):	\$15,961
Simple Payback (Including incentives, at current energy prices):	1.5 years
Lbs CO2 savings per year:	506,316



EnergySmart@Work
powered by climatePartner

Learn more at:
www.energysmartatwork.com



Proposed EnergySmart Rebates

Tentative timeframe – August – December, 2010

- Rebates *in addition to* what utilities offer
- Combined EnergySmart and utility rebates can pay up to 70% of total energy efficiency project costs with a \$10,000 EnergySmart rebate cap.
- *Efficiency measures must be eligible for incentives under the customer's existing prescriptive local utility program.*
- Businesses will have to apply for EnergySmart rebate before implementing project.
- Rebates will change through the three year timeline.

Thoughts, comments, and suggestions are welcome!



EnergySmart Rebates (Fall 2010)

Up to 70% of project costs, up to \$10,000

- Example:
 - \$10,000 Lighting Project
 - \$2,000 total Xcel Energy rebates
 - = \$5,000 EnergySmart Rebate
 - (\$7,000 total combined incentives)



EnergySmart @ Work Contacts

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EnergySmart @ Work Request For Proposals (RFP)

www.rockymountainbidsystem.com

Requests for Proposals

- Energy Efficiency and Renewable Rebate Program
- Retrofit Ramp-Up Residential EE (2 Techs)
- Retrofit Ramp-Up Commercial Buildings
- Retrofit Ramp-Up Databases and Outreach

