

Sustainability Series

Session 1: Energy & Money

September 18, 2017

Louisville Sustainability Specialist Erika Archer

Agenda

- ▶ Why Energy Efficiency?
- ▶ What is the City of Louisville Doing?
- ▶ EnergySmart Programs
- ▶ Xcel Energy Programs
- ▶ 5 Energy Audit Winners Announced

Why Energy Efficiency?

Video: Ted Talk – Alex Laskey

<https://www.ted.com/talks/>

[alex_laskey_how_behavioral_science_can_lower_your_energy_bill](https://www.ted.com/talks/alex_laskey_how_behavioral_science_can_lower_your_energy_bill)

What is our community doing?

Out of 8140 households in Louisville in 2016...

Energy Efficiency:

- 616 Energy Conservation projects
- 44 residences were signed up with Boulder county Energy Smart. (34 so far in 2017, and 546 since 2011)

Renewable Energy Users:

- Solar – 279
- Wind source – 678

Total = 957 users of alternative energy sources
(That's roughly 1 in 8 households)

What is the City doing?

- 2008 to present: Lighting/Energy Efficiency upgrades
- 2010 to present: Solar
 - By late 2017 / early 2018 50% of City facilities' electricity will come from renewable sources
- 2013 Installed electric vehicle charging station at Library
- 2016 added 1st electric vehicle to City fleet
- Building energy efficiency into new buildings like the Wastewater Treatment plant and the Rec Center, which is being designed to a LEED Gold standard.

Louisville Energy Stars

Working with Xcel Energy's Partners in Energy program, the City worked with the County, local businesses, and organizational members to develop the Energy Stars brand for programs that promote energy efficiency and support the City's Sustainability Action Plan.



- Created the Energy Action Plan (2017)
 - City-wide Goal: Reduce total energy use by **1% annually** (11% reduction by 2027)
 - Focus on all areas:
 - Municipal
 - Commercial/Industrial
 - Residential

EnergySmart

Dave Hatchimonji
EnergySmart Residential Program Manager



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Your Efficiency Solutions

Finding Energy Efficiency Rebates and Incentives Easily?

- 1. Why Make Your Home More Energy Efficient**
- 2. What is EnergySmart And How Can They Help?**
- 3. EnergySmart Rebates and Other Incentives**
- 4. Questions & Answers**



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Why Make Energy Upgrades?

- ❖ Save on energy costs
- ❖ Reduce wasted energy
- ❖ Get a more comfortable house
 - ❖ Fewer drafts & cold spots, quieter
- ❖ Receive protection from rising fuel and utility rates





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Why Make Energy Upgrades?

- ❖ 60% of US homes are under-insulated or un-insulated
- ❖ Skilled contractors can save you up to 20% on heating and cooling costs by sealing and insulating





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What is EnergySmart?

Your Resource!

The One-Stop Shop for Energy Improvements

- ✓ Unbiased One-on-One Energy Advising
- ✓ Energy Assessments for Home or Business
(Including rental properties, HOAs)
- ✓ Vetted Qualified Contractors
- ✓ Access to Financial Incentives





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What can an EnergySmart Advisor do for me?

Your Personal Energy Advisor will:

- Schedule an energy assessment for you
- Provide customized energy saving recommendations
- Offer impartial help with contractor selection
- Give “apples to apples” bid appraisals
- Assist with rebates and financing
- Now offering EV advising...





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*The Nicoletti Family Enjoying Tea
Time In Their New Conditioned
Crawl Space*



“We moved into our Louisville condo in November 2016. One of our primary goals after updating our home was to make it as energy efficient as possible. So we scheduled an energy audit with EnergySmart and discovered our condo had air leaks equivalent to a two square foot hole in the outside wall. The auditor made several recommendations, highlighting the ones we should prioritize.

We consulted with our energy advisor and he sent us a list of qualified, vetted vendors to choose from. He also offered unbiased advice and answered all of our questions and concerns throughout the process.

Since we moved in, we've had the crawlspace conditioned, upgraded the attic insulation from R-15 to R-50 and added dense-pack insulation to the tuck under garage. With rebates from both Xcel and EnergySmart (all processed by our advisor or the approved vendor), we've saved over \$1000. We highly recommend enrolling in the EnergySmart program, you'll not only save money, you'll create an energy efficient, comfortable home for years to come” Christopher Nicoletti, Louisville



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Want to Sign-Up or Learn More?

Visit www.EnergySmartYES.com

or

Sign up here today!

or

- RESIDENTS: 303-544-1000
- BUSINESSES: 303-441-1300





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Helping To Pay For An Upgrade(s)

1. EnergySmart Rebates*
2. Income Qualified Assistance Programs
3. Elevations Energy Loan*
4. “DsireUSA site for Incentives
5. Manufacturer, Store & Contractor Rebates



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EnergySmart Rebates

- ✓ \$500 - Solar PV & Air or GS Heat Pumps
- ✓ \$300 – Insulation w/ air sealing (attic, wall, basement/crawlspace), Elec. Heat Pump Water Heaters
- ✓ 150 – Gas Furnace & Boiler Replacement, H/E Central AC Replacement, Evaporative Cooler, Duct Insulation, Pellet & H/E Woodstove, Gas Tankless & H/E Elec Water Heater
- ✓ \$50 – Whole House Fan & ECM
- ✓ \$25 – Furnace & Boiler Tune-Ups, Dishwasher & Fridge or Freezer Replacement, Removal of 2nd Fridge

**Enrollment prior to undertaking is required*

Refer to EnergySmart Rebate flyer or go to www.EnergySmartYES.com for conditions



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Enhanced Incentives for Income Qualified Residents

energysMART IQ
Accessible Energy Solutions

50% off eligible energy efficiency upgrades:

Attic, Sidewall, and Subspace Insulation

Air sealing

Furnace upgrades

Lighting upgrades (including LEDs)

EnergySmart Home Assessment for \$65 (reg. \$185)

\$3,000 Rebate for Solar PV!!!!

# of Household Members	EnergySmart IQ 50% Off Energy Efficiency
1	up to \$55,040
2	up to \$62,880
3	up to \$70,720
4	up to \$78,560
Each Add'l	\$6,240

# of Household Members	EnergySmart IQ Solar Rebate
1	up to \$82,560
2	up to \$94,320
3	up to \$106,080
4	up to \$117,840



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Your Efficiency Solutions

Longs Peak Energy Conservation (LPEC)

Weatherization Assistance Program

Free energy efficiency services for income qualifying homeowners and tenants of single and multi-family homes, mobiles

Who We Serve:

Income Limits for Weatherization (Gross Annual Income)

- HOUSEHOLD SIZE OF 1 = \$24,120
- HOUSEHOLD SIZE OF 2 = \$32,480
- HOUSEHOLD SIZE OF 3 = \$40,840
- HOUSEHOLD SIZE OF 4 = \$49,200



What We Do:

- Energy Audit, Furnace Checks, CO Testing
- Attic, Wall, Subspace Insulation
- Air Sealing, Vapor Barrier
- Refrigerator Replacement
- Furnace & Water Heater Repairs and/or Replacement
- CFLs/LEDs & Low-Flow Showerheads
- Solar PV



Governor's
Energy Office

Contact: LPEC@bouldercounty.org, 720.864.6401 Or call EnergySmart

EnergySmartYES.com



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Financing:

Elevations Energy Loan

- ✓ Low Interest, starting at 2.75%
- ✓ Terms from 3-15 years
- ✓ Loan Amounts- \$500-\$25,000*
- ✓ >580 FICO
- ✓ For Energy Efficiency, PV, Wildfire & Resiliency Mitigation, and soon, E-bikes

LendKey Home Energy Efficiency Loans

- ✓ 6.24%-12.74%
- ✓ Terms from 3-12 years
- ✓ \$5,000 - \$50,000
- ✓ >660 FICO
- ✓ Instant pre-approval based on credit

ELEVATIONS CREDIT UNION
If you love where you live, it matters where you bank.
elevationscu.com/energyloans | 800.429.7626

Elevations energy loans are made possible through the U.S. Department of Energy grant-funded EnergySmart in Boulder County and the Denver Energy Challenge in the City and County of Denver programs, in cooperation with Elevations Credit Union, Boulder and Denver Counties, recipients of those stimulus funds, have set aside nearly \$5 million of the grant to create a finance program to support goals of the Department of Energy's Better Buildings program, which are to improve the energy efficiency of existing buildings and stimulate local economic growth.

NCUA Federally insured by the NCUA
Contact with us: [social media icons]

Home Energy Loans

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energysmartyes.com

denver energy CHALLENGE
denverenergy.org

The use of Denver and County of Denver Energy Challenge Logo is by permission granted from the city and County of Denver, all rights reserved. The use of EnergySmart Logo is by permission granted from Boulder County, all rights reserved.

ELEVATIONS CREDIT UNION



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Nationwide Database for Rebates and Incentives: www.dsireusa.org



Also: East Boulder Solar Coalition: <http://eabosoco.com/>

And: Lafayette/Louisville Solar Workshop- October 21st @ Lafayette
Library 11:00-2:00 pm



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Your Efficiency Solutions

Dave Hatchimonji

EnergySmart Residential Service Mgr.

Boulder County Commissioners' Office

Direct 720.564.2721

dhatchimonji@bouldercounty.org

www.EnergySmartYES.com

303.544-1000

Xcel Energy

Presenter: Ann Kirkpatrick
Trade Relations Manager, Customer Solutions



Navigating Xcel Energy Residential Rebates

September 18, 2017

Ann Kirkpatrick



Overview

- Why offer rebates?
- What are the rebates and how can I participate?
- How do I get started?
- Who can I call for help with rebates?
- Special “shout out” on some rebate worthy technologies

Why does an energy provider...

...offer rebates to help you offset the cost of buying high-efficiency appliances - and of making improvements to your home - that lowers your bill?

- Keeps rates lower (fewer new power plants)
- Rebates and energy savings go hand-in-hand
- If energy savings goals are met, the Company is reimbursed for the profits lost
- Win-win for everyone

Trivia question

According to Energy Star, what percent of the average US customers' energy bill is tied to heating and cooling costs?

Trivia question

According to Energy Star, what percent of the average US customers' energy bill is tied to heating and cooling costs?

Answer: 48%



2017-2018 Rebate Summary

CO Residential Energy Efficiency Programs

Key*	Rebate area	Qualifiers	Rebate	More information	
	Cooling				
	Evaporative coolers	Standard (window unit)	First-time install Replacement	\$300 \$200	Rebate can't be more than total cost.
		Premium unit	First-time install Replacement	\$700 \$600	Rebate for first-time install only available if additional equipment is listed on invoice such as pipes, valves
		Whole house system*	All	\$1,200	*Premium unit with 3 ducts or more
	High-efficiency AC or ASHP (air conditioners and air source heat pumps)	Below 14.5 SEER	Quality Installation**	\$100	**Available for existing homes only
		SEER 14.5/EER 12	New equipment Trade-in Maximum rebate	\$0 \$500 \$500	The rebate is paid according to the lesser value of the SEER/EER. Example: A system with 16 SEER and 12 EER will receive a \$350 rebate. AHRI certificate required.
		SEER 15/EER 12.5	New equipment Trade-in Maximum rebate	\$350 \$500 \$850	
		SEER 16, EER 13	New equipment Trade-in Maximum rebate	\$500 \$500 \$1,000	
		SEER 17/EER 13	New equipment Trade-in	\$650 \$500	
				SEER - Seasonal Energy Efficiency Ratio HSPF - Heating Seasonal Performance Factor EER - Energy Efficiency Ratio	

Key



Participating contractor required



Must get electric power from Xcel Energy



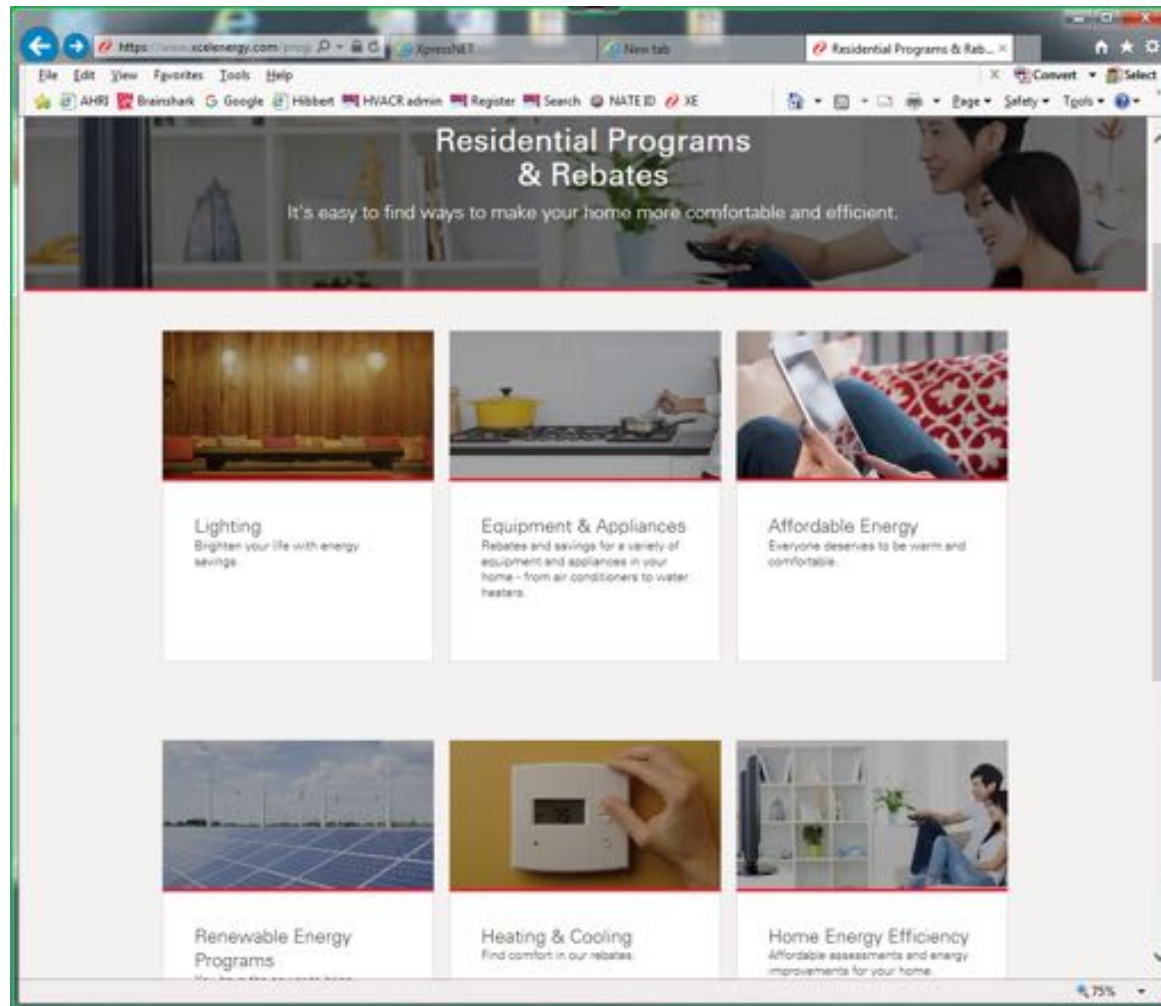
Must get natural gas from Xcel Energy

“Open” rebate programs

- Water heaters
- Evaporative coolers
- Mini-split Heat Pumps
- Western Cooling Control

Where to find rebate applications

- www.xcelenergy.com/homerebates



Heating & Cooling



Save Money. Stay Comfortable.

Heating and cooling your home can be 50 percent of your energy bill. These programs and rebates can help you do it more efficiently.

Browse Residential Heating & Cooling Programs

Cooling Rebates

Experience the cooling and comfort that comes with our AC rebates.

[Get Started](#)

Heating Equipment Rebates

Earn a rebate and save in the long run with on a high-efficiency natural gas furnace & cooling system.

[Earn Rebates](#)

Evaporative Cooling

Earn a rebate on a cooling system that is up to 75 percent more efficient.

[Get Started](#)

Water Heater Rebates

Your water heater is typically the second largest consumer of energy in your home. A high-efficiency natural gas water heater can help...

Draft Check

Find air leaks in your home with a Draft Check kit available at your local library.

Home Insulation

Earn a rebate and protect your home from costly energy loss.

“Closed” rebate programs

- AC – ASHP – GSHP
- Heating (furnace and EC Motor)
- Insulation and Air Sealing
- Home Energy Audits and Home Performance

Find a participating contractor:

www.xcelenergy.com/cotrades

Where to find rebate applications

- Rebate application forms can be gotten through participating trade allies

Get started

- Consider starting with a Home Energy Audit
- Work with an energy advisor (EnergySmart)
- Find a participating contractor
www.xcelenergy.com/cotrades

800-895-4999 Customer Service

- Rebates depend on the customer's type of service
 - Natural gas: furnaces, water heaters, insulation and air sealing
 - Electricity: Evaporative cooling, AC, MSHP, GSHP
- Ask Xcel Energy to confirm types of service
- Can get help finding participating contractors, rebate applications

Evaporative Cooling

- Not “swamp coolers” in Colorado
- Use our nice fresh air
- About 75% lower electric use than AC
- Moist air is a benefit in our climate

Insulation and Air Sealing

- Hot and cold areas
- Drafty areas
- Air Sealing very important
- Benefits in hot weather as well as in cold weather

EC [fan] Motor

- Electronically Commutated (EC) fan motor
- Variable speed
- Quiet
- Energy efficient

Refrigerator recycling

- \$50 rebate
- Free pick up and recycling
- Two per year maximum
- Working units only
- Schedule a pick up: ARCA (vendor partner) 866-552-8755



Thank you!

More Resources:

www.LouisvilleCO.gov/residents/sustainability-initiatives

Sign up for Louisville Sustainability eNotifications:

<http://louisvilleco.gov/residents/enotification>

Upcoming Sustainability Sessions:

Commuting Options in Louisville
Wednesday, October 25, 2017, 6:30-7:30 p.m.
Louisville Library

The Louisville Water System
Wednesday, November 29, 2017, 6:30-7:30 p.m.
Louisville Library