

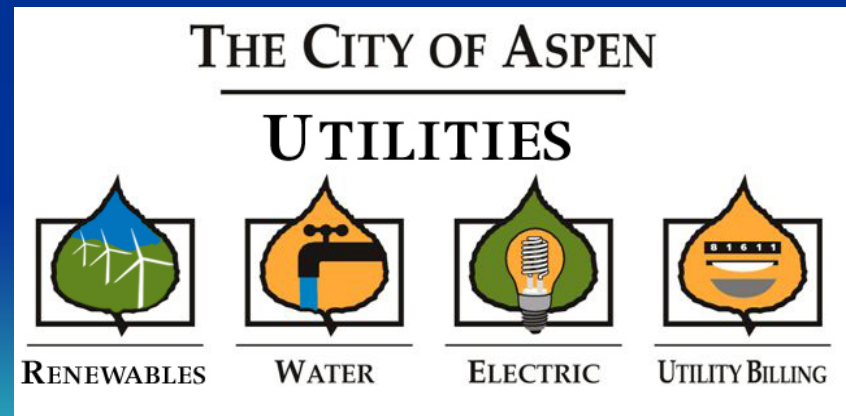


3rd Colorado Utility Efficiency Exchange

WWW.UTILITYEXCHANGE.ORG

Roaring Fork Valley Utility Collaborative Recognizing and Working with Your Partners

Jeff Rice, Utilities Energy
Efficiency Manager
City of Aspen Utilities



Who and what

- We are a municipal electric and water utility (potential future geothermal)
- About 2,800 electric meters
 - Serving the “donut hole” with Holy Cross Electric surrounding us
- About 5,500 water meters
 - Serving to the urban growth boundary of Aspen



City of Aspen Utilities Programs

- Residential and Commercial DSM
 - Appliance Rebates, Incentives, Interactive
- Community outreach
 - Events, Education, Sample Products
- Sponsorships
 - LivingWise, CUE, CORE
- Innovation
 - Renewable Technologies, Feasibility Studies, Installs



Inter-City Partners

- Environmental Initiatives Team
 - City of Aspen Utilities
 - Energy Efficiency
 - Renewable Engineering
 - Global Warming Department
 - Canary Initiative
 - Z-Green Program
 - Environmental Health
 - Z-Green Program
- Community Development Department
 - REMP (residential / commercial)
 - 2009 IECC Energy Code

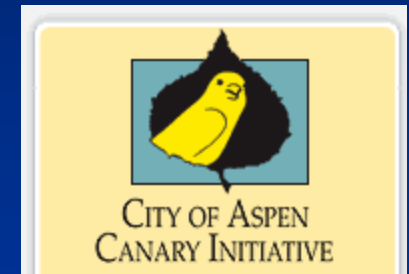
External Partners

- Community Office for Resource Efficiency (CORE)
- Holy Cross Rural Electric Association
- Source Gas
- Pitkin County
- Energy Star® New Homes Program / GEO
- Colorado Mountain College
- ***Our Rate Payers and All Service Providers!***



Inter-city Partners

- Global Warming Department
 - Aka. Canary Initiative
 - Track GHG emissions / mitigate
 - 2050 and Canary Action Plan
 - Educate
 - Canary Tags
 - Chicago Climate Exchange (CCX)
 - *El Team*



Inter-city Partners

- Z-Green Program
 - Citizen
 - Business
 - Energy component
 - Drives efficiency
 - Events
 - Sustainable
 - *El Team*



Inter-city Partners

- Environmental Health
 - *ZGreen*
 - *Canary Initiative*
 - Air and Water Quality
 - Recycling
 - Noise Ordinance
 - Disease control (West Nile, Swine Flu)
 - *El Team*



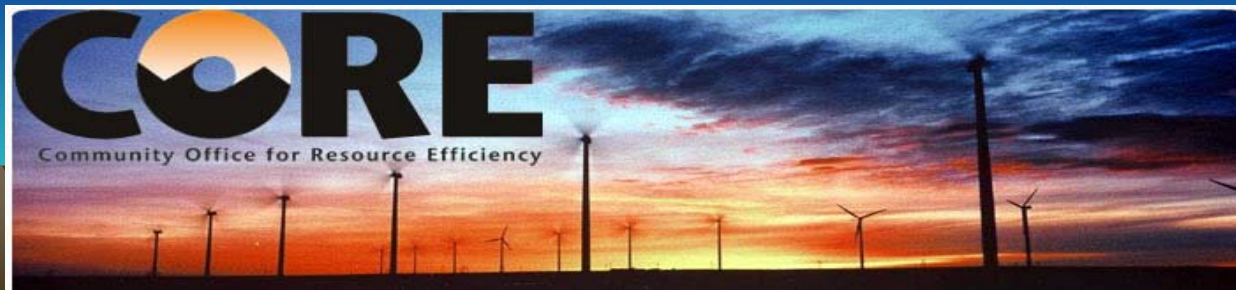
Inter-city Partners

- Community Development Department
 - Aggressive “green” building code
 - 2009 IECC Energy Code
 - LEED, Green Build Council (GBC)
 - Renewable Energy Mitigation Program (REMP)
 - Administered by CORE
 - EnergyStar® Homes
 - HERS, GEO grants



External Partners

- Community Office for Resource Efficiency (CORE)
 - COA, Pitkin, HCE, Roaring Fork Valley
 - Board Advised
 - Administers the REMP fund
 - Programs
 - Rebates, incentives, assistance
 - Government and Grants
 - Energy Smart Loan / Ballot Measure 1A
 - Position funding
 - Renewable, feasibility, design, assistance
 - Community Partner



External Partners

- Holy Cross Rural Electric Association
 - Residential and Commercial DSM
 - Appliance rebates, Renewable Incentives, Efficiency Measures
 - Community outreach
 - Events, education, sample products
 - Sponsorships
 - LivingWise, CORE

HOLY CROSS ENERGY

A Touchstone Energy® Cooperative



External Partners

- Source Gas
 - Efficiency Programming
 - Excess is Out
 - Tiered Audit structure
 - Local professional BPI / HERS auditors
 - Audit Incentive
 - Rebates and Incentives
 - Sponsorships
 - CUE



External Partners


- Pitkin County
 - Energy Manager
 - Energy Smart Loan
 - Ballot Measure 1A
 - Eagle, Gunnison
 - Energy Management
 - TEA's
 - Performance Contracting
 - Education
 - “Tip of the Week”
 - Landfill Management

Issue #5 October 13th, 2008

Energy Tip of the Week

KILL YOUR PHANTOM LOADS!!!

While you work, eat, sleep and play, your appliances and electronics are hard at work **stealing energy** (even when not in use). For those that think phantom loads are an unnecessary evil, think again!



YOUR ELECTRONICS USE ENERGY WHEN OFF!

You may believe that when you turn an appliance off, it is, in fact, off. However, most of your household appliances have clocks, digital timers, remote controls, or standby modes that still use electricity when off. This phantom loading (also called vampire power, standby power, or leaking loads) accounts for a large amount of our energy use.

SOME FACTS TO THINK ABOUT:

- Approximately 8% of residential energy use is the result of phantom loads. This adds up to millions of tons of CO2 and billions of dollars of waste annually.
- It's estimated that only 5% of the power drawn by cell phone chargers is actually used to charge phones. The other 95% is wasted when they are left plugged in.

WAYS TO ELIMINATE PHANTOM LOADS:

- Simply unplug unused devices.
- Pull the plug on unnecessary energy usage by plugging into a power strip that can be turned OFF when not in use.
- Utilize timers or activity sensors to help control your energy use.
- Pay attention to the products you purchase. When replacing or purchasing new electronics or appliances, choose those that use less energy and are Energy Star certified.


ELIMINATE PHANTOM LOADS AND SAVE ENERGY AND MONEY!

RESOURCES

Energy Star www.energystar.gov

Standby Power <http://standby.lbl.gov>

Wiki www.en.wikipedia.org/wiki/Standby_power



The **Energy Tip of the Week** is brought to you by the Pitkin County Energy Management Department. If you have any questions or suggestions, please contact Dylan @ 429-2897 or dylan.hoffman@co.pitkin.co.us

External Partners

- Energy Star® New Homes Program
 - Program Partner with GEO
 - Matching grant program
 - Upper RF Valley Partners
 - COA, Basalt, CORE, M2MHBA
 - Platform to Launch Education / Training Programs / Collaboration
 - BPI / CMC
 - Promote HERS as path to code compliance for new homes
 - Education / Training facilitation
 - Contractor / Trades
 - Ratepayers
 - Energy Star® national recognition



SEE ENERGY STAR IN ACTION!

The Pitkin ENERGY STAR Partners and Bonsai Communities invite Builders, Contractors, Developers and Building Industry Associates to learn and tour a new ENERGY STAR Home in the Mid-Valley.

Learn about ENERGY STAR systems, recycled options and environmentally-friendly building practices and products.



WHEN: April 30, 2009
WHERE: 43 Pinon Lane – Blue Creek Ranch
Carbondale
TIMES: 3:30pm and 5:30pm
RSVP: mary@pitkinenergystar.com or 920-7276

For your enjoyment beer/wine and light food will be served.

FREE!



External Partners

- Colorado Mountain College (CMC)
 - Green Academy
 - Local Professionals
 - Energy Curriculum
 - BPI Certification Track
 - Hudson River Community College / NYSERDA
 - NHBA
 - Green Builder / Sustainability Track



Working together

- Using Your Partners
 - Environmental Initiatives Team
 - Inter City Departments working together
 - Larger staff resources / input = expanded outreach
 - COA / CMC / Region
 - Education / Training / Certification Tracks
 - Utilizes local and regional resources
 - COA / CORE
 - Consumer out reach
 - CORE as a clearing house for ratepayers
 - COA / HCE / Source Gas Utilities
 - COA / GEO / Energy Star
 - Platform to launch programs / education / training



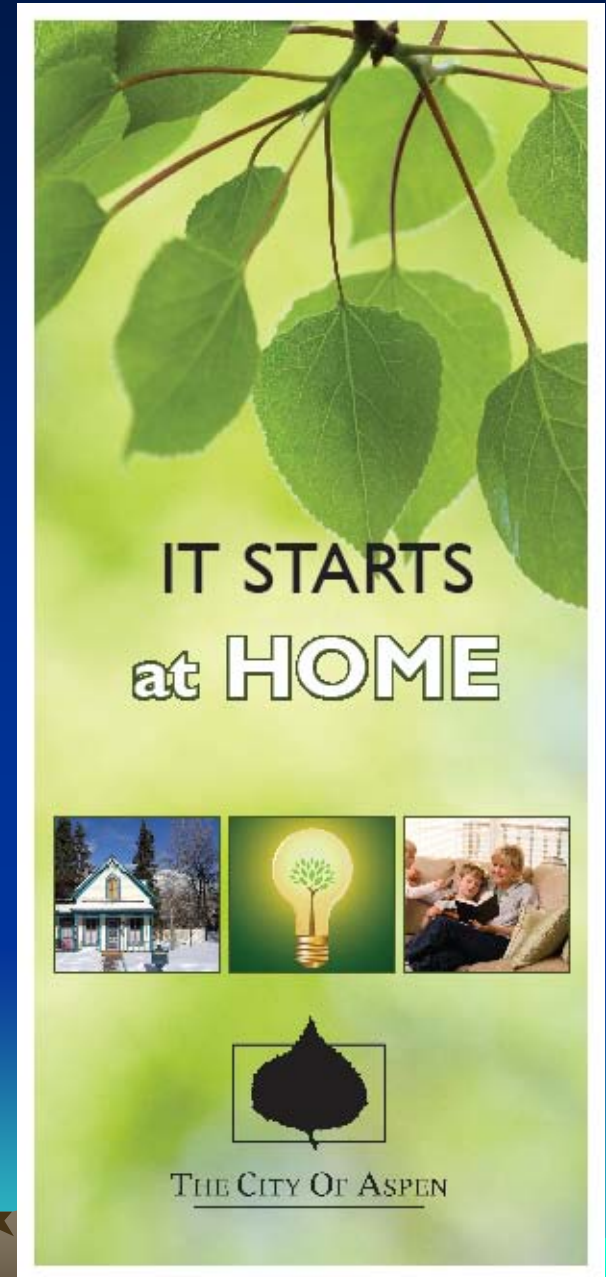
City of Aspen Integrated Program

- COA Utility Energy Efficiency Division developed and is implementing an integrated Whole House Energy Audit and Performance Improvement Program that will act as a “one stop shop” for building owners to get an audit, develop a scope of improvements, get financing options, implement the improvements, and take advantage of utility efficiency programs all at once facilitated by the auditor/contractor and backed by the utility.

It Starts at Home

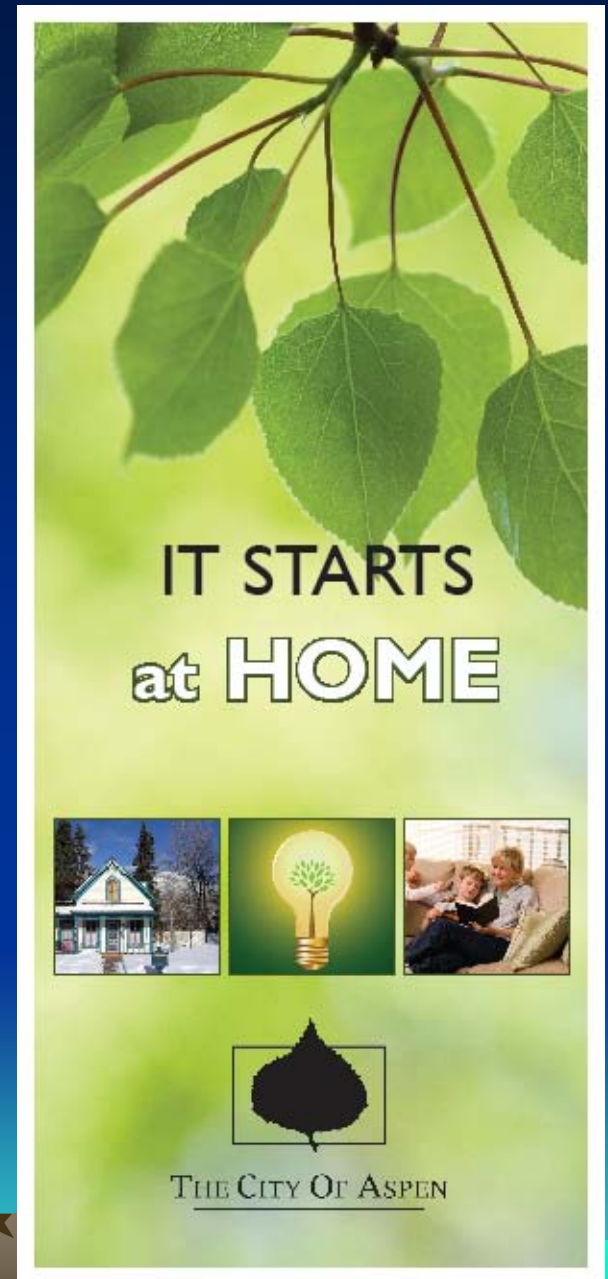
Outreach to Give Homeowners a Start

- General Home Energy Information
- DIY Initiation
- Whole House Energy Audits
- Building Performance Institute
- And More



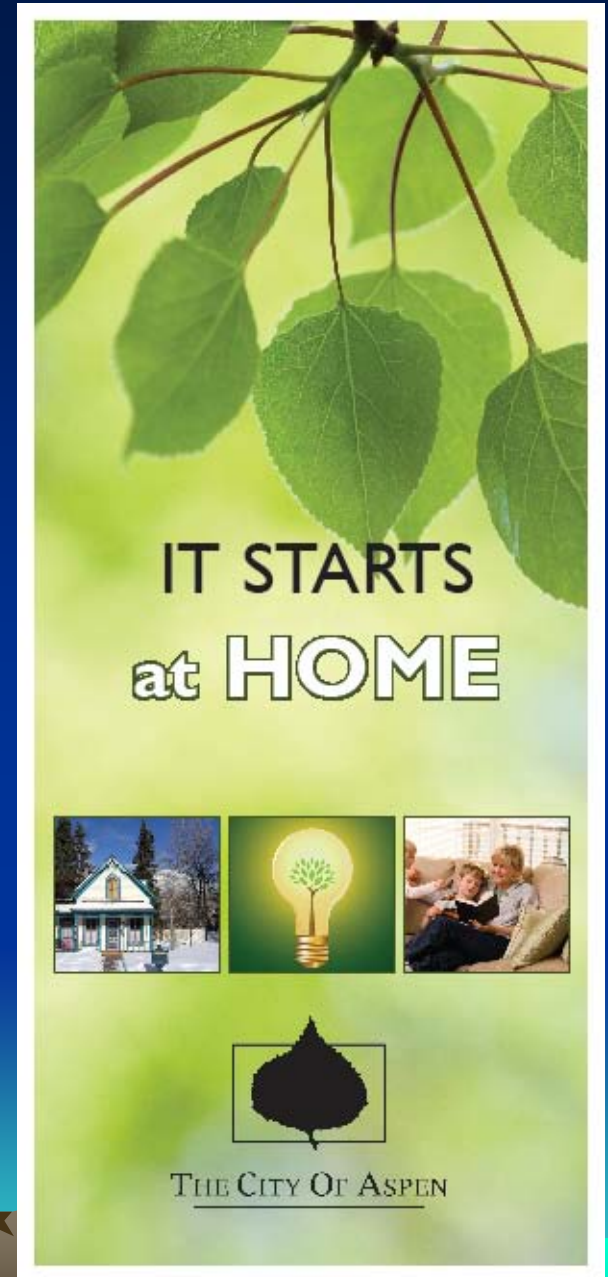
It Starts at Home

- Why BPI
 - Standardized Approach
 - Whole House as a “system”
 - Health and Safety
 - Valley Wide and Beyond
- Existing Auditors
 - HERS, Weatherization, Retro Fit
- Colorado Mountain College
 - Goals and Objectives
 - Curriculum
 - Partnership Extraordinaire
- Financing Options
 - Utility Incentive Programs
 - Energy Smart Loan / 1A
 - EGIA – GEO Smart
- COA auditing goals

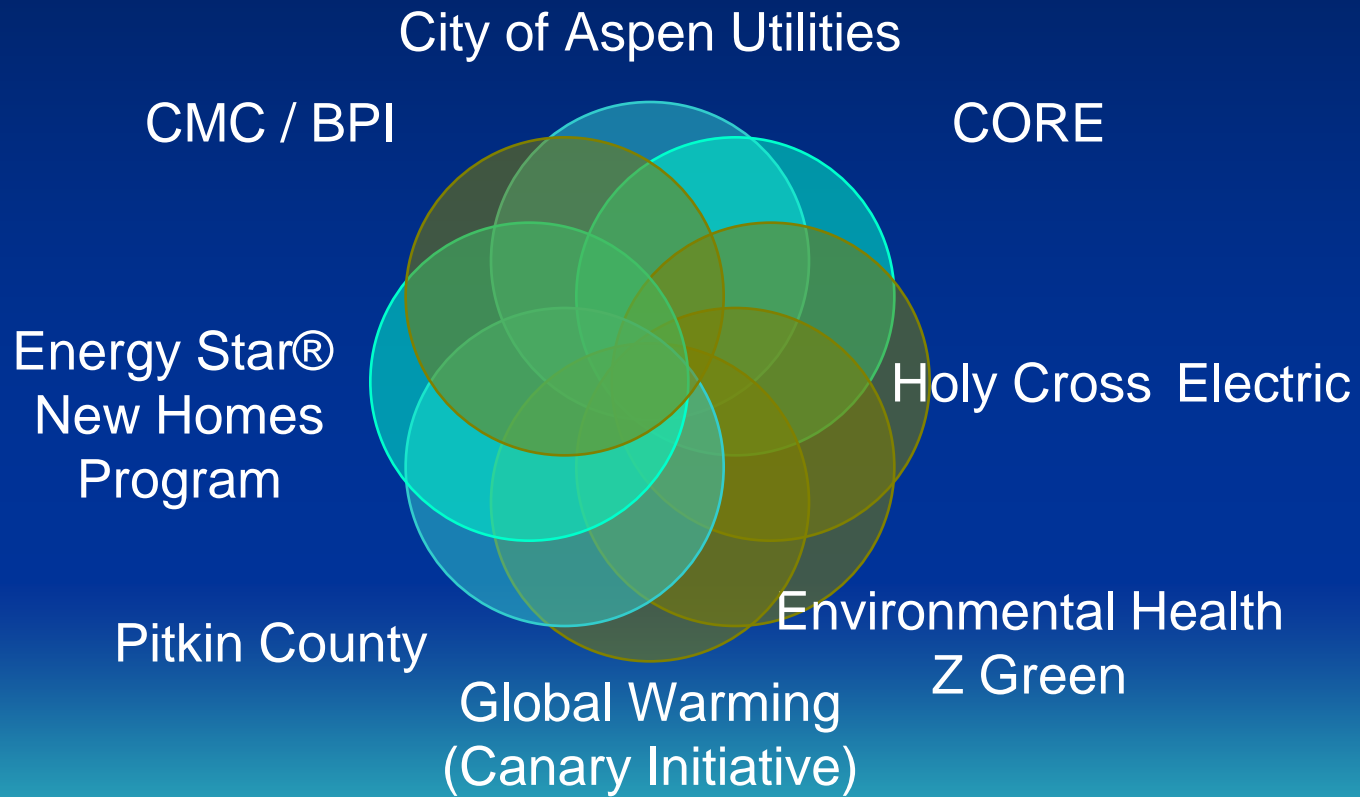


It Starts at Home

- How Are We Doing?
 - 22 Students in the First Course
 - Auditors
 - Teachers / Trainers
 - Renewable Companies
 - Energy Managers
 - Contractors
 - 9 Students in Second Course
 - Currently 4 Fully Certified BPI Building Analysts performing Audits
 - COA Auditing Goals
 - 100 Audits '09
 - 250 Audits '10
 - RF Valley Potential
 - Over 50,000 population
 - VP Office, Council on Environmental Quality
 - Next Steps
 - Accredited Contractors



Big Partner Picture



Big Partner Picture

- Working together for a common goal
 - Strategies
 - Support
 - Cooperation
 - Sharing Information and Staff
 - *Increased Exposure for Increased Success*



Big Partner Picture

- Equals success
- Equals a variety of programs that appeal to all customers
- Equals cohesive programs
- Equals near one stop shopping
- Equals community-wide vestment



City of Aspen Contacts

- COA Utilities Energy Efficiency
 - www.aspenpitkin.com/energyefficiency
 - Jeff Rice at jeffr@ci.aspen.co.us
- Canary Initiative
 - www.canaryinitiative.com
- ZGreen / Environmental Health
 - www.aspenzgreen.com
- Community Development Department
 - www.aspenpitkin.com



External Contacts

- CORE
 - www.aspencore.org
 - Nathan Ratledge, nathan@aspencore.org
- Holy Cross Rural Electric Association
 - Steve Casey, scasey@holycross.com
 - www.holycross.com
- Source Gas
 - www.sourcegas.com
- Pitkin County
 - Dylan Hoffman, dylan.hoffman@co.pitkin.co.us
 - www.aspenpitkin.com
- Energy Star® New Homes Program
 - www.Pitkinenergystar.com
 - www.Colorado.gov/energy



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Thank You!

Jeff Rice, Utilities Efficiency Manager
City of Aspen Utilities

