

Partners in Energy Littleton

Workshop 1 Notes

Friday, September 11, 2015

9:00 – 11:00 am

Participants

Name	Organization
Tim Aston	CSU Extension
Mike Braaten	City of Littleton
Tami Gunderzik	Xcel Energy
Tom Henley	Xcel Energy
Brad Leitner	Littleton Public Schools
Steve Nelligan	Neighborhood Resident
Cindy Somers	Arapahoe Community College
Shelby Sommer	Partners in Energy Facilitator (Brendle Group)
Sean Thorp	King Soopers
Anastasia Urban	City of Littleton
Tim Weaver	City of Littleton
Kelly Webb	e2e Sustainability, US Green Building Council Colorado Chapter
Dave Wortman	Partners in Energy Facilitator (Brendle Group)

Agenda

Time (mins)	Agenda Item
20	Welcome & Workshop Objectives Introductions
15	Partners in Energy Overview
30	City of Littleton Profile Energy Baseline
40	Energy Visioning Activity Focus Area Introduction
15	Workshop Schedule Wrap-up Topics for Next Workshop

Workshop 1 Goals

Our objectives for this workshop were to accomplish the following:

- 1) Acquaint and anchor planning team members in the planning process
- 2) Communicate program goals
- 3) Explore Littleton's energy baseline
- 4) Identify past and present Littleton energy efforts and community trends
- 5) Share visions for Littleton's energy future

Facilitation Team Introductions

Dave Wortman introduced the Partners in Energy contacts for the facilitation team, as shown on the following slide.

Tom Henley, Xcel Energy's Area Service Manager covering the City of Littleton area will also be involved during the planning and implementation process.

Partners in Energy Contacts



Xcel Energy	Community Facilitators <small>Brendle Group</small>	Partners in Energy Community Leaders		
				
Tami Gunderzik	Dave Wortman	Shelby Sommer	Mike Braaten <small>Deputy City Manager</small>	Tim Aston <small>CSU Extension Arapahoe County</small>



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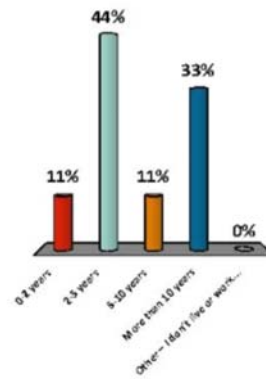
Keypad Polling

As an introductory exercise, attendees completed several keypad polling questions focused on their longevity living in Littleton, their energy literacy, and the role of energy in their jobs. See a summary of results below.

How long have you lived or worked in Littleton?

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AN XCEL ENERGY COMMUNITY PARTNERSHIP

- A. 0-2 years
- B. 2-5 years
- C. 5-10 years
- D. More than 10 years
- E. Other – I don't live or work in Littleton

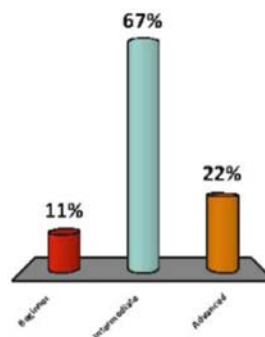


Littleton

How would you define your energy literacy?

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PARTNERS IN ENERGY
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- A. Beginner
- B. Intermediate
- C. Advanced

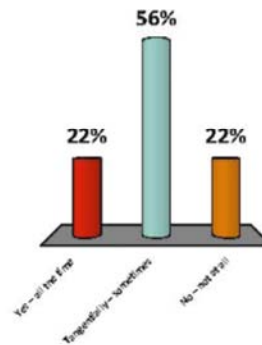


Littleton

Do you consider energy as part of your job?

Xcel Energy®
PARTNERS IN ENERGY
AN XCEL ENERGY COMMUNITY PARTNERSHIP

- A.** Yes – all the time
- B.** Tangentially – sometimes
- C.** No – not at all

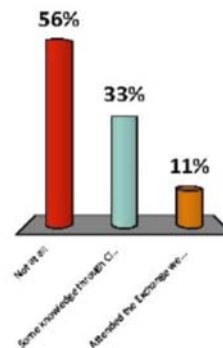


Littleton

How familiar are you with Partners in Energy?

Xcel Energy®
PARTNERS IN ENERGY
AN XCEL ENERGY COMMUNITY PARTNERSHIP

- A.** Not at all
- B.** Some knowledge through City conversations
- C.** Attended the Exchange webinar



Littleton

Planning Team Introductions

As an introduction to the group, participants were asked to share their name, organization/affiliation, and how they feel their time on the planning team will be well-spent. A summary of remarks is provided below.

Steve Nelligan

- Asked to join, not sure what the benefit will be yet
- Works for the City of Englewood, many different hats - Englewood Housing Authority
- Would like to develop a deep understanding of the plan at hand

Tim Ashton

- Colorado State University Extension - Arapahoe County
- Would like to learn where the City is at, help share energy efforts with other communities in the county
- Concrete energy conservation steps that the city can take to help the municipality save money, spill over into commercial and residential sectors, blossom into a full-blown sustainability plan

Kelly Webb

- Small sustainability consulting firm
- Has some Leadership in Energy and Environmental Design for Existing Buildings Operations and Maintenance (LEED EB O&M) projects - mostly in Aurora
- Incoming chair for USGBC Colorado Education Committee
- Has worked with a teacher at Littleton High School - started an energy audit but did not go forward, would love to see that effort go forward (son is a senior there)

Anastasia Urban

- Community Development Department, newer to City and state
- Oversees permitting and codes, also personally interested in sustainability

Tim Weaver

- Littleton Public Works
- Is there something new out there that the City is missing - from an energy perspective?

Mike Braaten

- Deputy City Manager
- A roadmap to move forward with City improvements and ways to engage the community - commercial and residential sectors, acknowledgement of the issue to the public

Sean Thorpe

- King Soopers representative, Littleton resident
- Would like to share information with company as well as home

Cindy Somers

- Vice President of Administrative Services - Arapahoe Community College (includes facilities)
- Budget is the one whose utility bills are charged to
- Will be undergoing a major remodel of science labs - would like to make sure it is done with efficiency in mind

Brad Leitner

- Littleton Public Schools Sustainability Manager
- Works with kids and staff to change behavior
- Would like new ideas to take back to the school district

About Partners in Energy

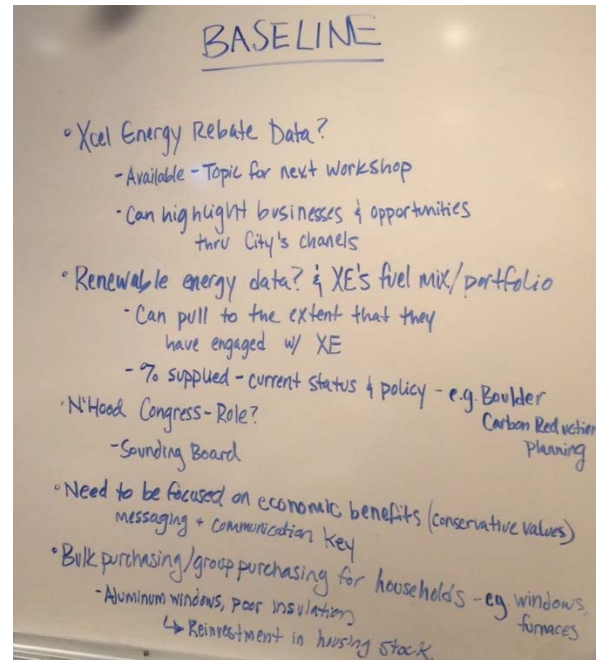
A brief introduction to the Partners in Energy program was provided by Tami Gunderzik and Dave Wortman (see attached PowerPoint slides). Comments about the program included the following:

- Nice to have the data and the utility at the table
- Extension wants to help build collaboration and support facilitation - are we talking to the right people and getting the right stuff done; paving the way for other communities
- New model working with extension - will be a great collaboration

Community Baseline and Profile

Shelby Sommer provided an overview of Littleton's profile (see attached PowerPoint slides) and then facilitated a discussion about other community efforts and opportunities that might be leveraged during the planning process, as follows:

- Accounting for water transportation energy costs?
 - Water comes from Denver Water; not an Xcel Energy costs, maybe focus on water conservation
 - City pays Englewood, Englewood pays Xcel for wastewater, serves several water and sanitation districts
- City profile data is correct
- Commercial entity participation - opportunity out there
- Can highlight specific business through economic development, newsletters
- Littleton hospitals, account executives
- But gap for medium sized businesses - get the word out
- Renewables?
 - Windsource
 - Gone through Xcel programs, what part?
 - What is Xcel's fuel mix?
 - Boulder declined: so pursuing municipalization
 - Mike - council for renewables, had solar hot water system
- Citizens congress
 - Mix of neighborhoods in the city
 - Sounding board for ideas
 - Election soon, 5 of 7 council members up
- Be careful how we message what we do moving forward - economics of these things (second oldest population in metro area)
- Speak their speak
- Federal fund pre-purchase ideas? (potential strategy)
- Mike- aluminum windows, issues addressed to make housing stock desirable for people to move here, as aging population transitions out
- Arapahoe county weatherization program
- Steve- gone out to a dozen homes, direct installs, Habitat for Humanity goals to hit 300 homes



- Colorado Department of Public Health and Environment (CDPHE) - City was a member of Environmental Leadership Program - had to develop a sustainability plan as part of this program

Energy Visioning Activity

Attendees were asked to complete an exercise to share their energy vision for Littleton. Please see the following section for compiled results.

Workshop 1- Energy Visioning Activity

An energy vision statement is an expression of the community's shared energy intention.

- Serves as a north star throughout the energy visioning process
- Embodies an ideal that the community will work towards throughout the 6 month planning phase and 18 month implementation phase
- Reflects the community's unique voice and community
- Provides a clear vision that will be used as a focusing tool
- Provides a "why" and "how" vs. a "what" and "who"

The statements provided below are from the City of Littleton's 2009 Environmental Action Plan. The group revisited these statements together and provided notes and input on potential changes to them.

Sustainability Mission Statement

The daily activities of city government have a significant impact on the quality of Colorado's public health, environment, and natural resources. The City of Littleton takes a position of leadership in the new energy economy. The city will reduce energy consumption, increase the use of renewable energy sources, increase energy efficiency, decrease the environmental impact of the city vehicle fleet, and reduce waste.

Energy Conservation Targets

The city wishes to conserve energy, obtain a portion of electricity from a renewable source, and use energy efficiently in lighting, heating, cooling, weatherization, travel, technology, and equipment use.

In reviewing these statements, the team specifically helped refine them by answering one or more of the following questions:

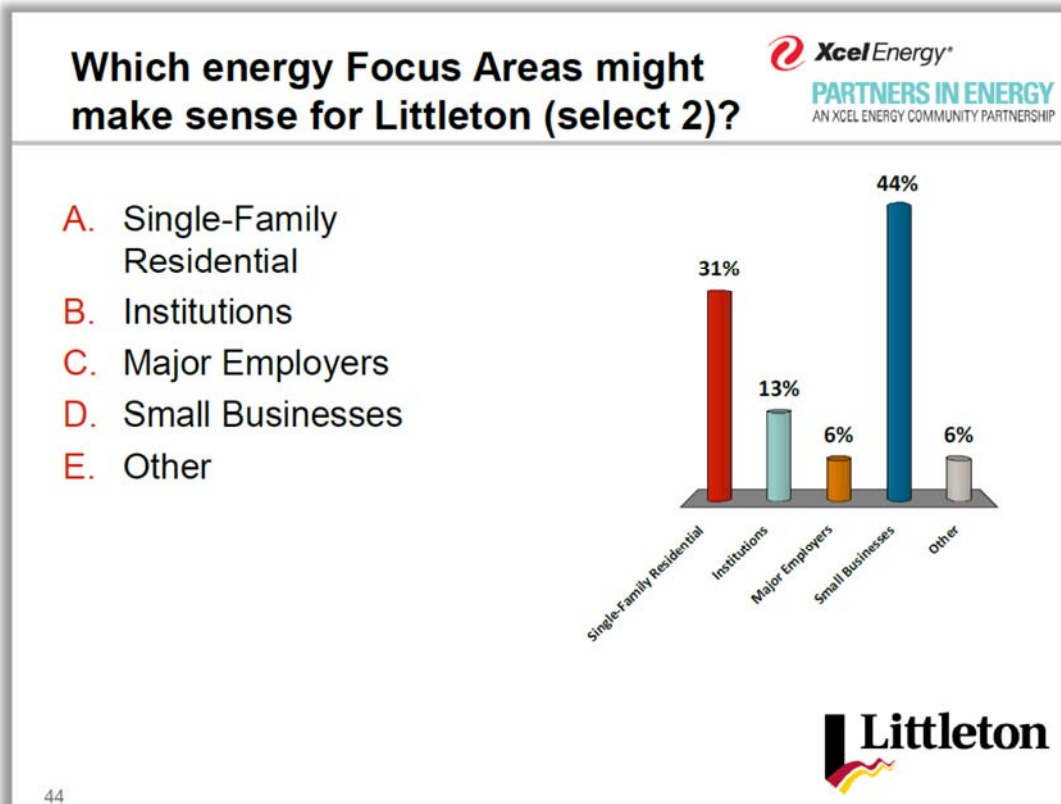
<p>What's Right?</p> <ul style="list-style-type: none"> • City of Littleton takes a position of leadership • Obtain a portion of electricity from a renewable source/recognition of renewables • City of Littleton takes a role of leadership • City will reduce energy consumption / energy efficiency / fleet efficiency / reduce waste • Leadership/leading community • Decrease environmental impact • Having a statement/sustainability mission statement captures the essence of the vision 	<p>What's Wrong?</p> <ul style="list-style-type: none"> • Doesn't say <i>how</i> • "New energy economy" is a polarizing statement • Continuing to do as we always have (not looking to conserve/change or for new opportunities) • Daily activities "can" have an impact • Premature to set targets w/ out baseline • Not including the community • No measurable goals • Not having it out there in public like at the light rail, parks, library, repeated in newsletters, etc. • Too wordy
<p>What's Confused?</p> <ul style="list-style-type: none"> • Travel/technology • New energy economy • Reaffirm: does City wish to be leader in sustainability? • Increase renewables • Is this a municipality statement or a broader community statement? • Steps to complete the task • City "wishes" – no targets or goals 	<p>What's Missing?</p> <ul style="list-style-type: none"> • Something about spending tax dollars wisely • Going green to save green • Raising awareness in community and educating community • Measurable goals with time frame • Education and community engagement • Saving funds to be used elsewhere? • Implementation of statement • Unified message • "Community" • Economics/savings bonds • Goals – specific • Why • Direction – how? • A time frame, a goal • A unifying message

Provide your draft energy vision statement in the space below.

1. City of Littleton will take a leadership role by reducing its energy use by ____ obtaining a portion of electricity through renewable resources.
2. Leadership, education, and community engagement surrounding energy efficiency and renewables at all levels.
3. City of Littleton is embarking on a new mission to reduce energy use, use more renewable energy to save money – to use for new opportunities.
4. The City of Littleton will reduce energy consumption, increase energy efficiency, and lead our community by example down a more sustainable path to the new energy economy.

Focus Areas

Dave Wortman introduced the concept of focus areas as a way to organize the plan. The City of Littleton has already identified municipal facilities as a primary focus area; the group was asked to weigh in on other potential focus areas for future planning, as illustrated below.



Next Workshop

Objectives for the Workshop #2 include:

- Confirming the energy vision statement
- Delving deeper in to Littleton's energy data
- Identifying focus areas for the plan
- Establishing preliminary energy goals
- Exploring strategies to achieve those goals

Action Items

The following action items were identified for planning team members (including those who were unable to participate at Workshop #1):

- Review Workshop #1 notes and example Energy Action Plan (Maplewood, MN)
- Complete the scheduling poll for Workshop #2
- Share any other baseline information or resources with the planning team



Planning Workshop

Littleton | September 11, 2015

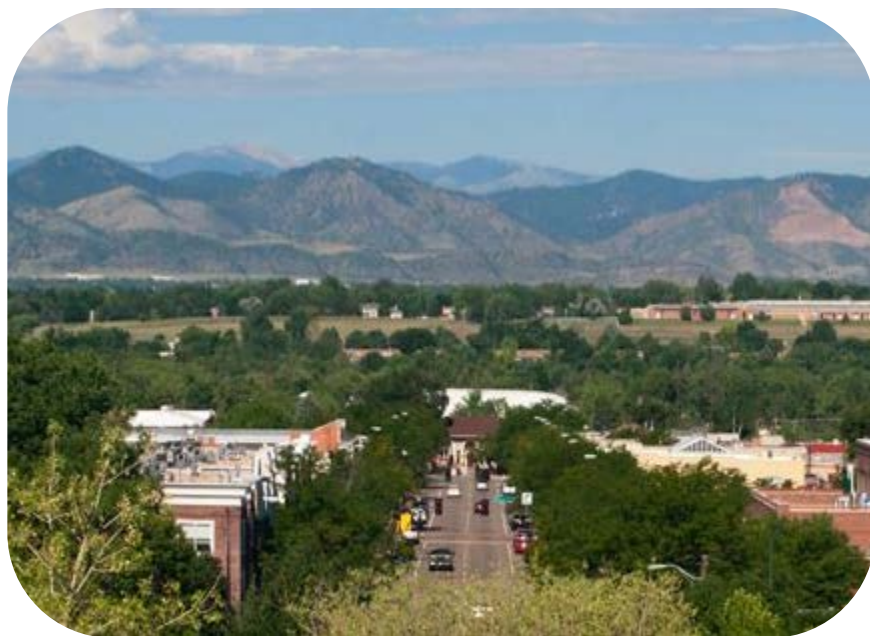
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		Shelby Sommer			
		Mike Braaten Deputy City Manager		Tim Aston CSU Extension Arapahoe County	

Workshop 1 Objectives



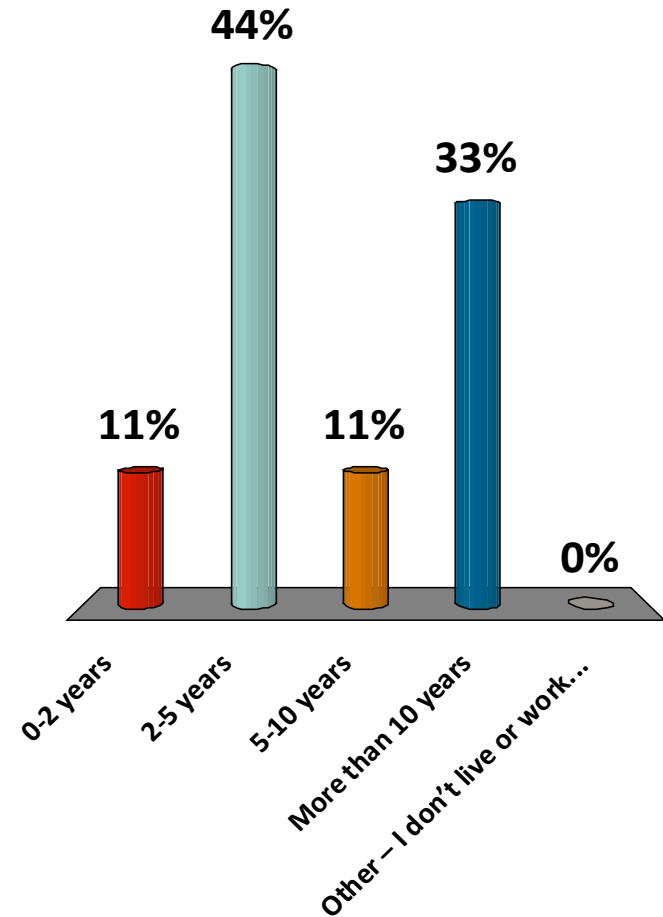
Credit: City of Littleton Facebook page

By the end of the workshop...

- 1) Planning team members get acquainted and anchor the planning process
- 2) Program goals are clearly communicated
- 3) Littleton's energy baseline is explored
- 4) Past and present Littleton energy efforts are identified
- 5) Visions for Littleton's energy future are shared

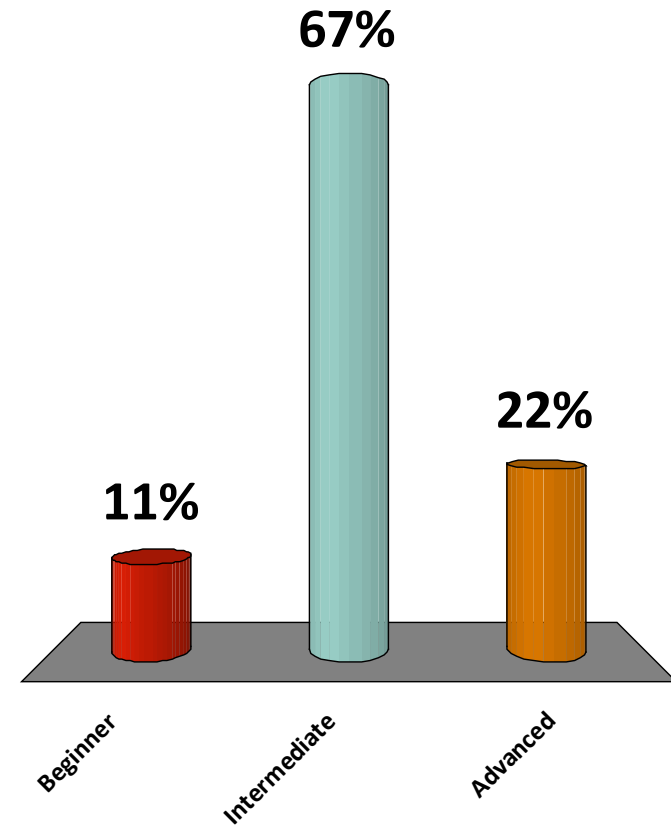
How long have you lived or worked in Littleton?

- A. 0-2 years
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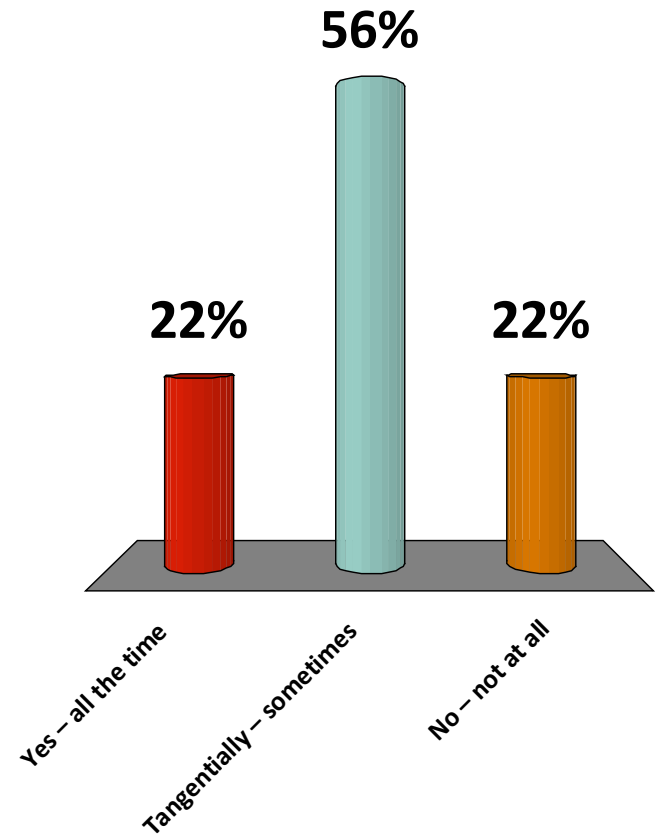
How would you define your energy literacy?

- A. Beginner
- B. Intermediate
- C. Advanced



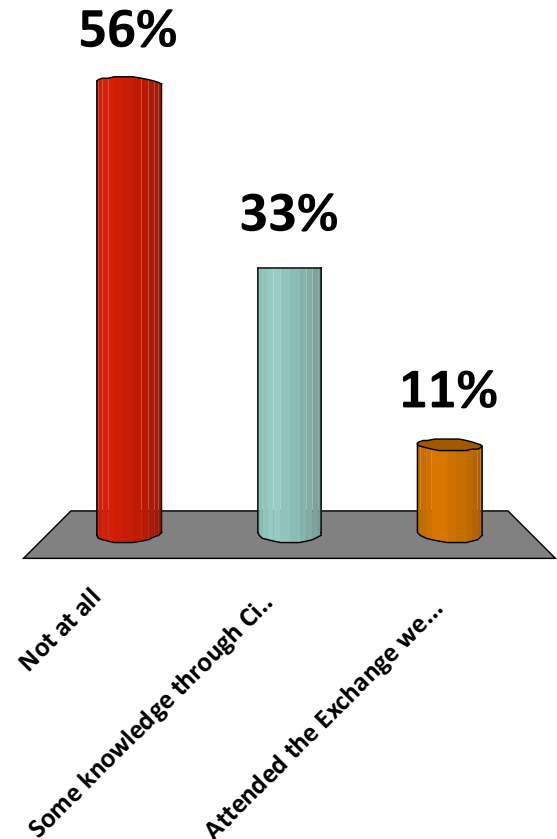
Do you consider energy as part of your job?

- A.** Yes – all the time
- B.** Tangentially – sometimes
- C.** No – not at all



How familiar are you with Partners in Energy?

- A. Not at all
- B. Some knowledge through City conversations
- C. Attended the Exchange webinar



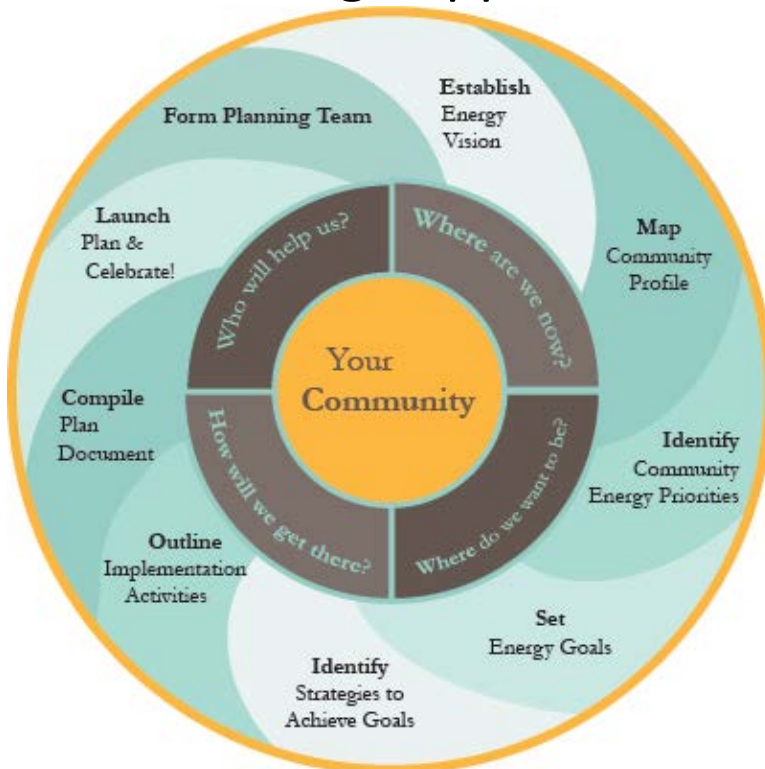
Who is in the room?

- Name
- Organization or Affiliation
- My time serving on this planning team will be well spent if...

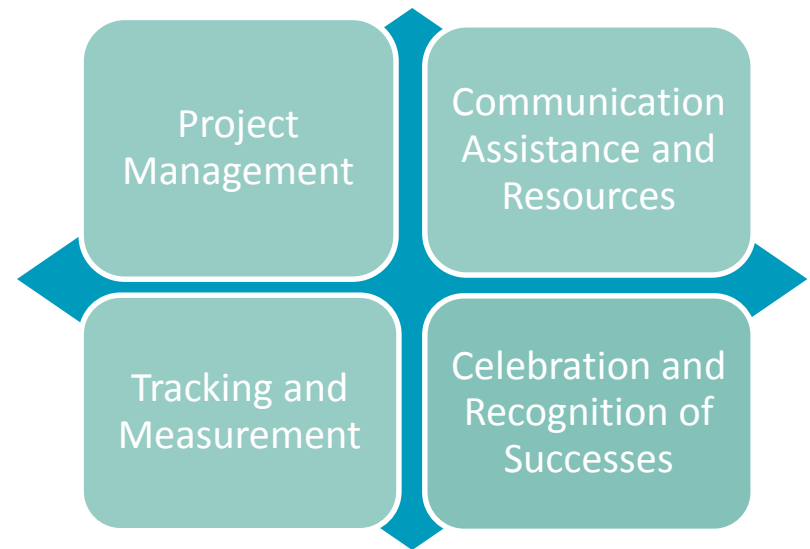
What is Partners in Energy?

Xcel Energy providing tools and resources
to enable community-driven energy planning
and implementation

Planning Support



Implementation Support



Partners in Energy Scope

- Community planning facilitation & implementation assistance
- Identify actions through planning process that are achievable in 18 months
- Maximizing opportunities found in Xcel Energy's existing efficiency and renewable energy programs

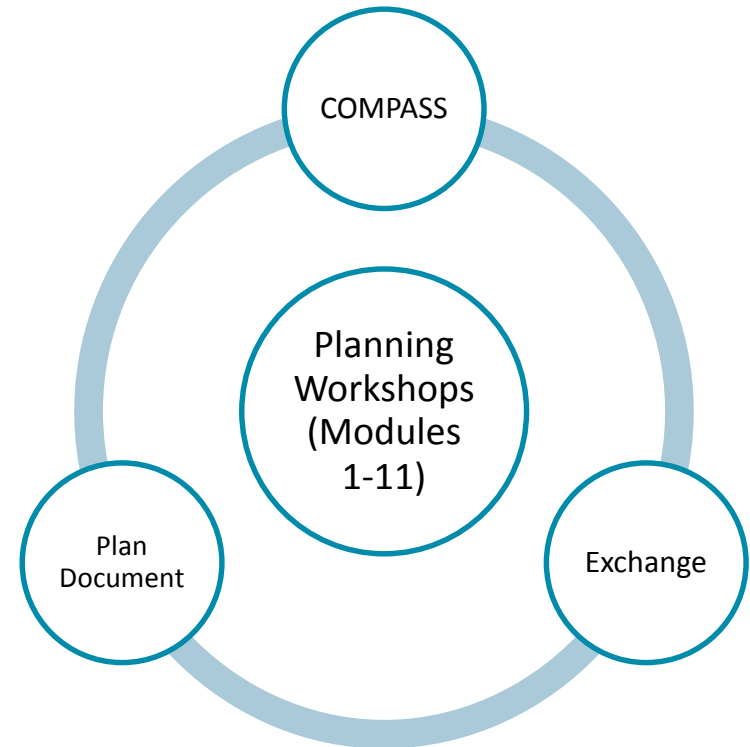
Xcel Energy's Goals



City of Littleton Facebook page

- Better develop new resources to fit community needs
- Save energy and advance clean energy goals
- Strengthen relationships with the community

Plan Development Pieces



Plan Development: Littleton Approach



Exchange

- Webinars, office hours, and peer-to-peer exchanges – an opportunity to share with and learn from other participating communities developing and implementing their own Energy Action Plans



Xcel Energy Partners in Energy Team in Minnesota



The CITY of
EDINA



Planning Team Roles

- Represent your organization (Organization hat)
- Represent & educate the community (Citizen hat)
- Be a critical eye for credibility, transparency, accuracy (Subject-matter expert/practitioner's hat)
- Be a conduit to your network (Ambassador's hat)
- Actively participate and engage (Team hat)
 - Provide input, ideas, and feedback
 - Commit to help implement the Energy Action Plan

Xcel Energy Team Roles

- Provide facilitation for the Energy Action Plan development
- Gather, process, and share data
- Actively learn more about customers' goals and needs
- Provide customized access to Xcel Energy programs & resources
- Encourage community throughout the process
- Provide transition into and support during implementation

Littleton Profile & Energy Baseline

Littleton's People

- **A growing population**
 - 44,669 persons in 2014*
 - 7% increase from 2010 to 2014**
- **Declining household sizes*****
 - 2.25 persons per household in 2010 (down from 2.65 in 1980s)
 - Median age of 47
 - 16% of population is age 65+
 - Declining school age population
 - 21% of population is under age 18
- **Increasingly diverse*****
 - 12% Hispanic or Latino
 - 8% speak Spanish



Credit: City of Littleton Facebook page

* 2014 American Community Survey Estimate

** Littleton 2014 Comprehensive Plan

*** US Census Bureau, 2013 American Community Survey 5-year Estimates

Littleton's Neighborhoods

~20,000 housing units*

- **Single-family predominance**
 - 60% are single family detached or attached structures
 - <1% homeowner vacancy rate
- **Aging housing stock**
 - 54% of all housing units built before 1980
 - Aging multi-family apartments a concern in a few areas (e.g., Northeast Neighborhood)**
- **Housing affordability issues**
 - 33% of homeowners and 53% of renter households spend 30% or more of their monthly income on housing and utility costs*



Credit: City of Littleton Facebook page

* 2013 American Community Survey 5-year Estimates

** 2013 Littleton Economic Plan

Littleton's Economy

~ 2,500 businesses*
~ 28,500 employed*
8.3% unemployment rate**
\$59,700 median household income**

- **Major industries and employers****
 - Information technology
 - Professional, scientific and technical services
 - Manufacturing
 - Retail trade
 - Health care
- **Economic development priorities***
 - Incentives for business investment
 - Revitalization of aging commercial corridors
 - Updating or redeveloping aging shopping centers
 - Updating and increasing available housing



"Downtown Littleton Light Rail Station,"
by Denver Cityscape 2015.

* 2013 Littleton Economic Plan

** 2013 American Community Survey 5-year Estimates

Littleton's Strengths & Assets*

- Historic Main Street and Downtown
- Light Rail access
- Strong public schools
- South Platte River
- Parks, open space & trails
- Health and wellness focused residents and businesses
- Neighborhood partnerships and programs



Credit: City of Littleton Facebook page

* 2013 Littleton Economic Plan

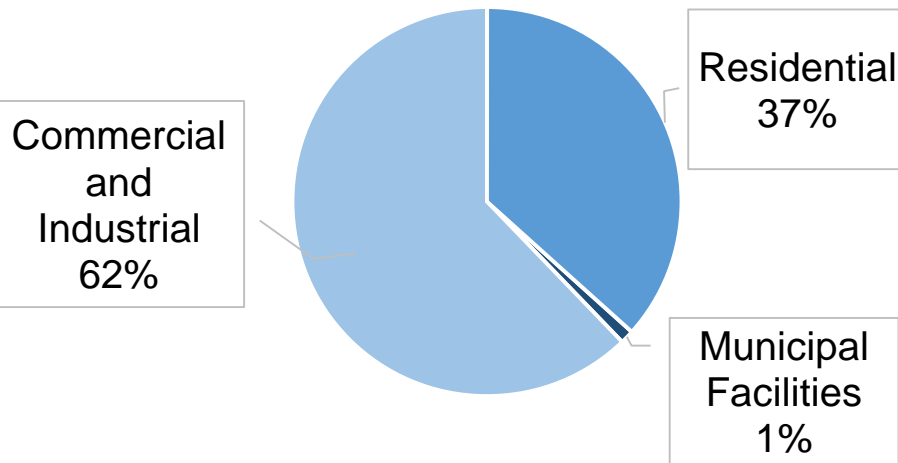
Energy Data 101

- 15 x15 Data Privacy Rule
 - Must be greater than 15 entities
 - No single entity can account for more than 15 percent of the usage
- A “Premise” is not necessarily a “Customer”
- Caveats of data processing
 - Customer types
 - Geographic locations vs billing address
- Data are unofficial for planning purposes, and results may change slightly

Community Electricity Use

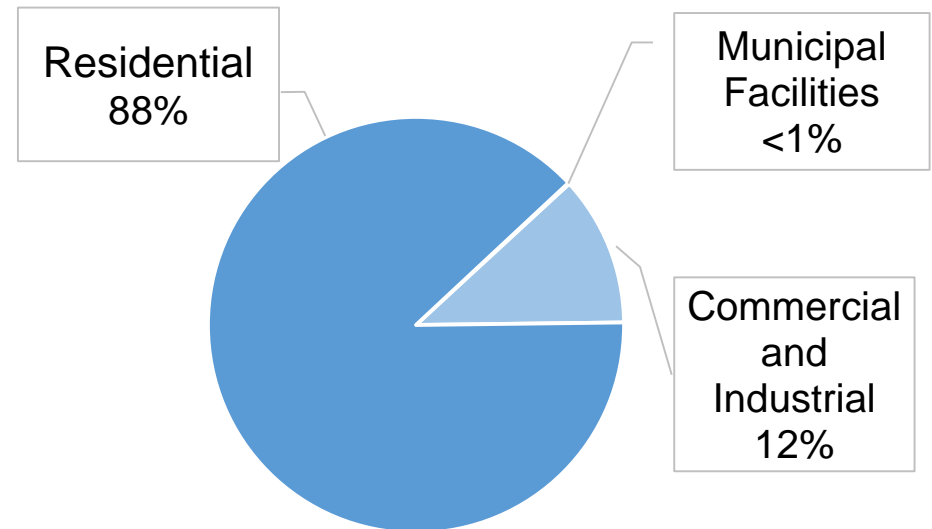
2014 Total Electricity Use

(380 million kWh)



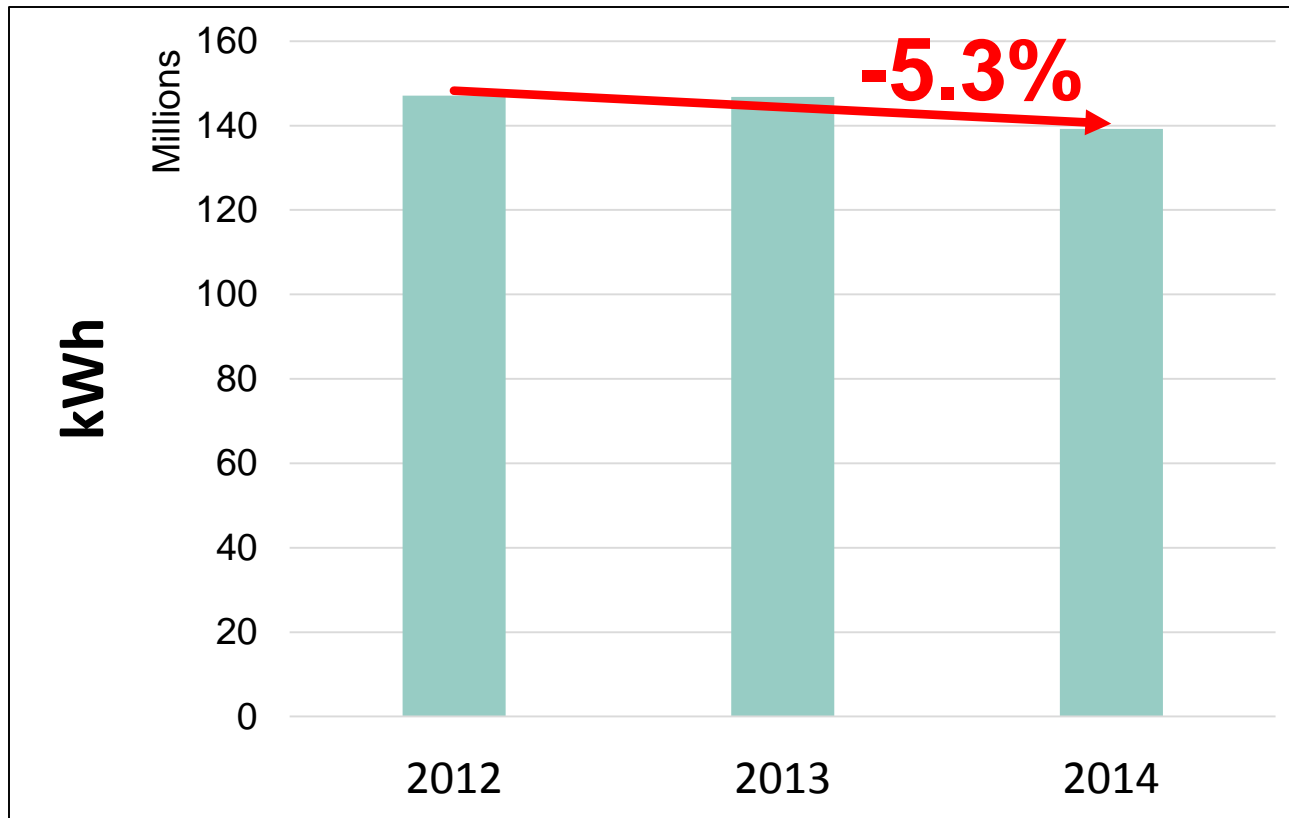
2014 Total Premises

(22,000 Premises)



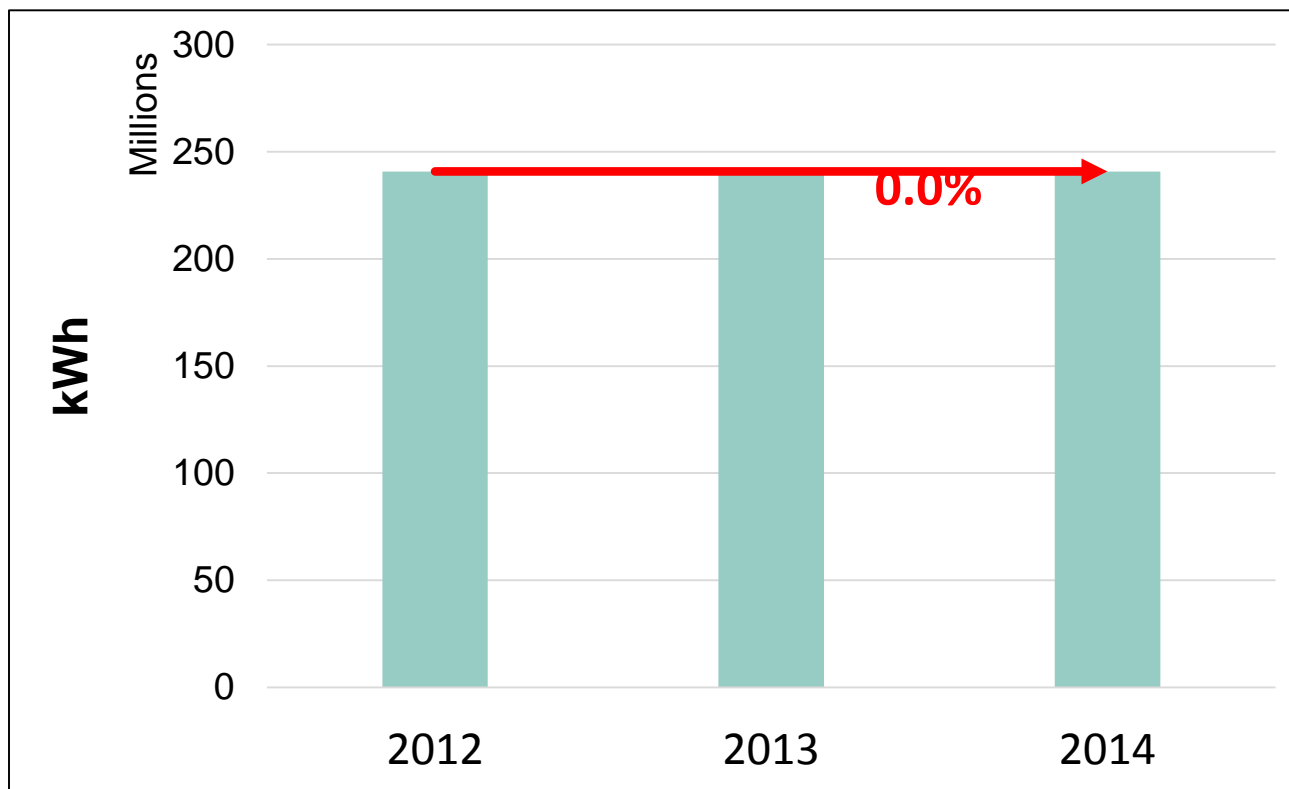
Year-to-Year Changes

Residential Electricity Use



Year-to-Year Changes

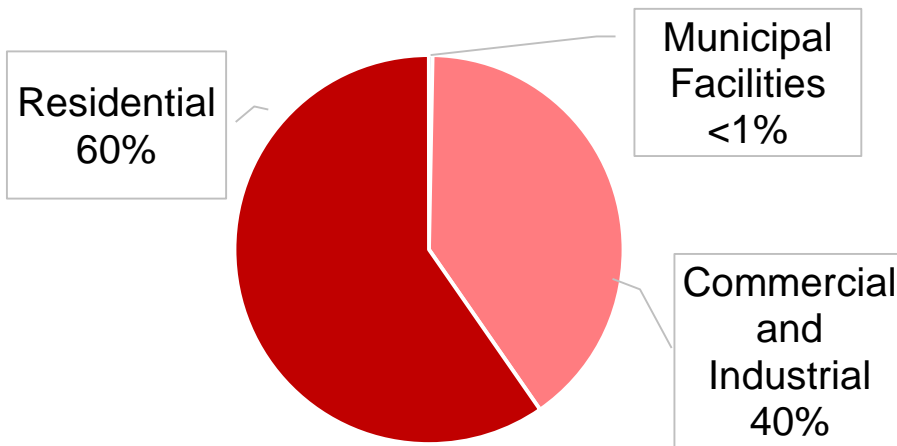
Commercial & Industrial Electricity Use



Community Natural Gas Use

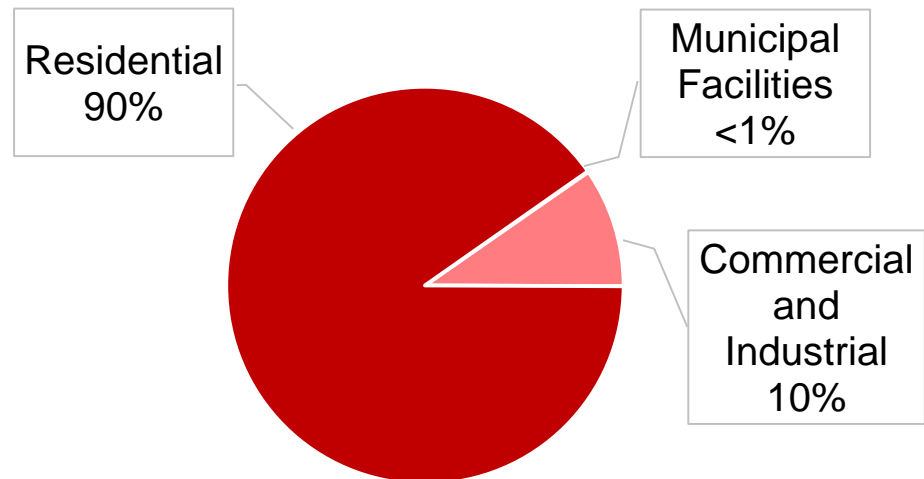
2014 Total Natural Gas Use

(20 million therms)



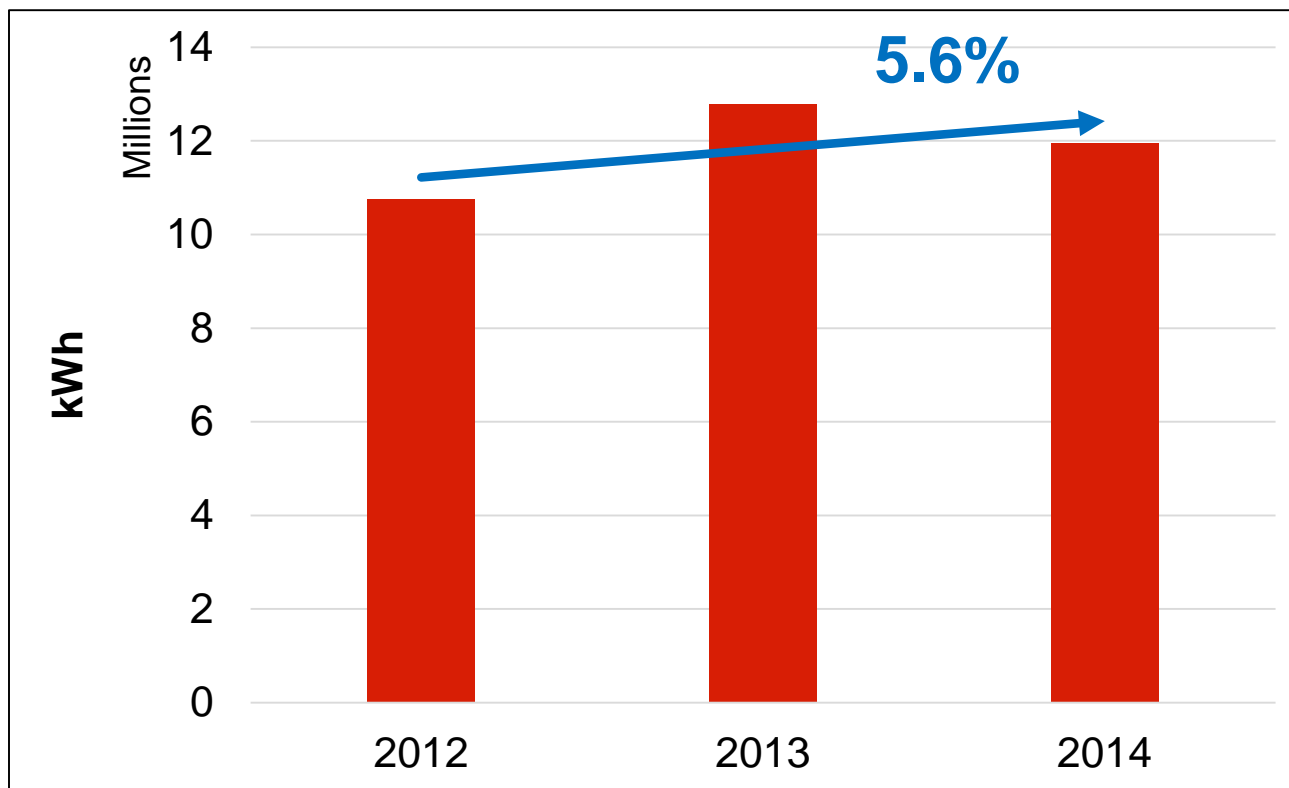
2014 Total Premises

(18,000 Premises)



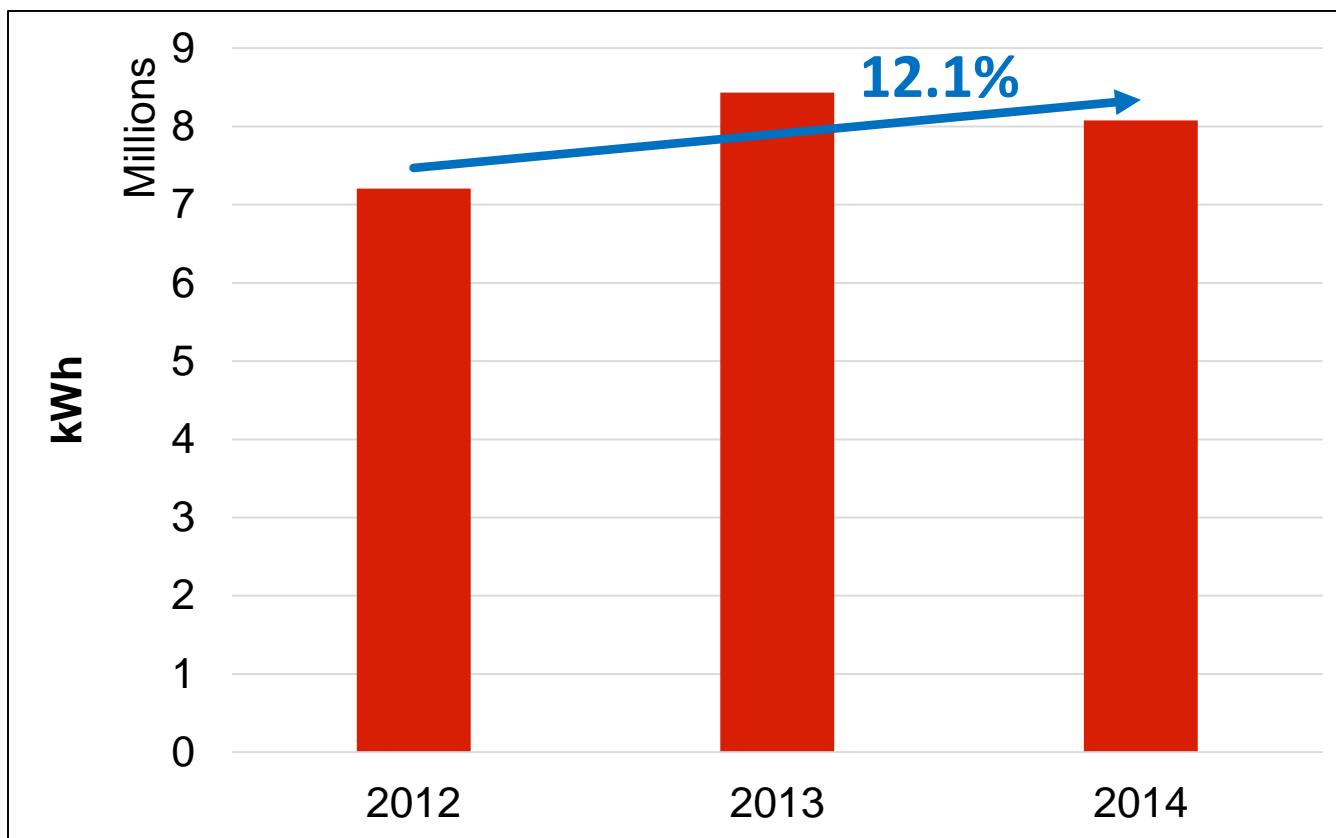
Year-to-Year Changes

Residential Natural Gas Use

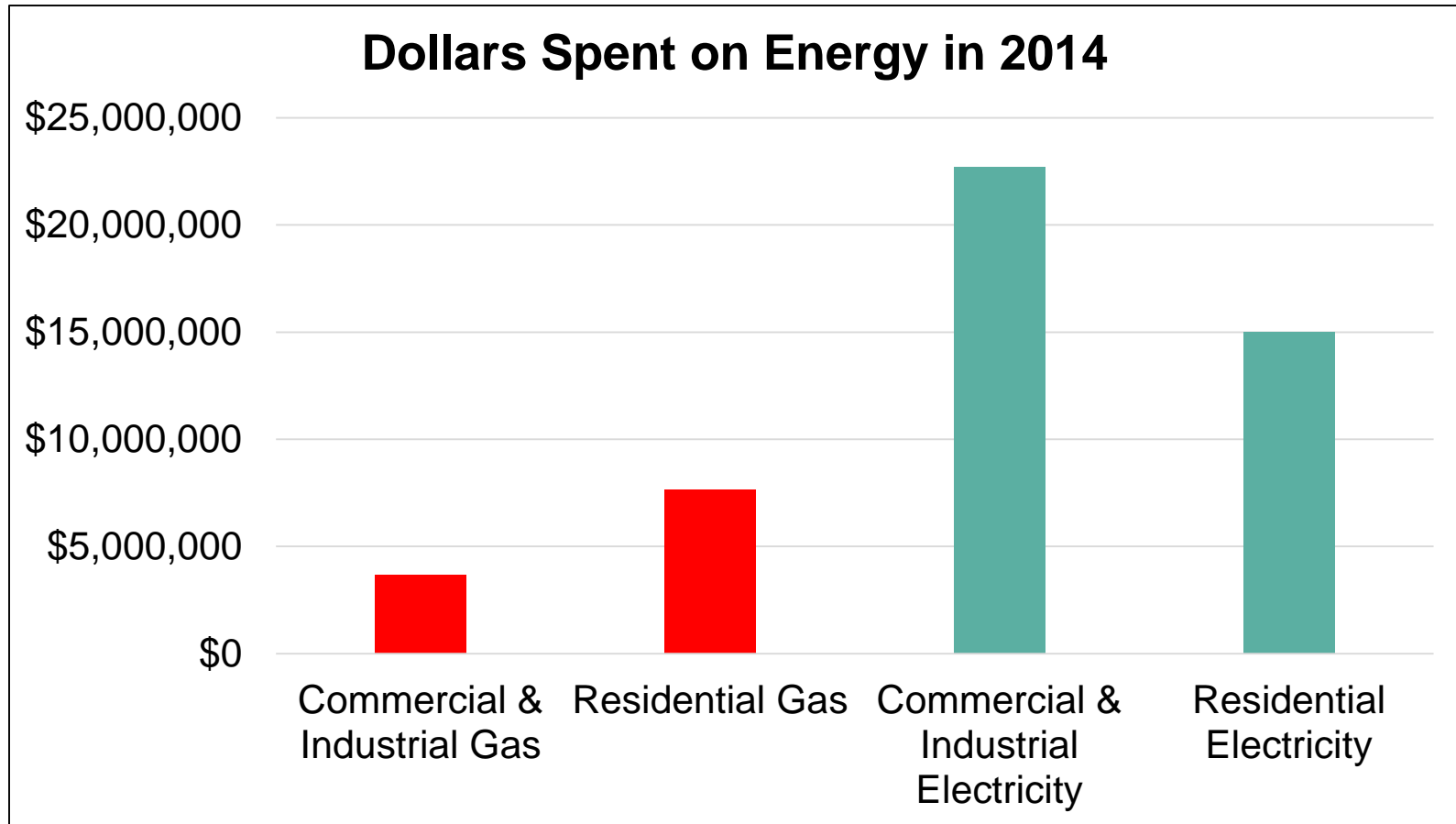


Year-to-Year Changes

Commercial & Industrial Natural Gas Use

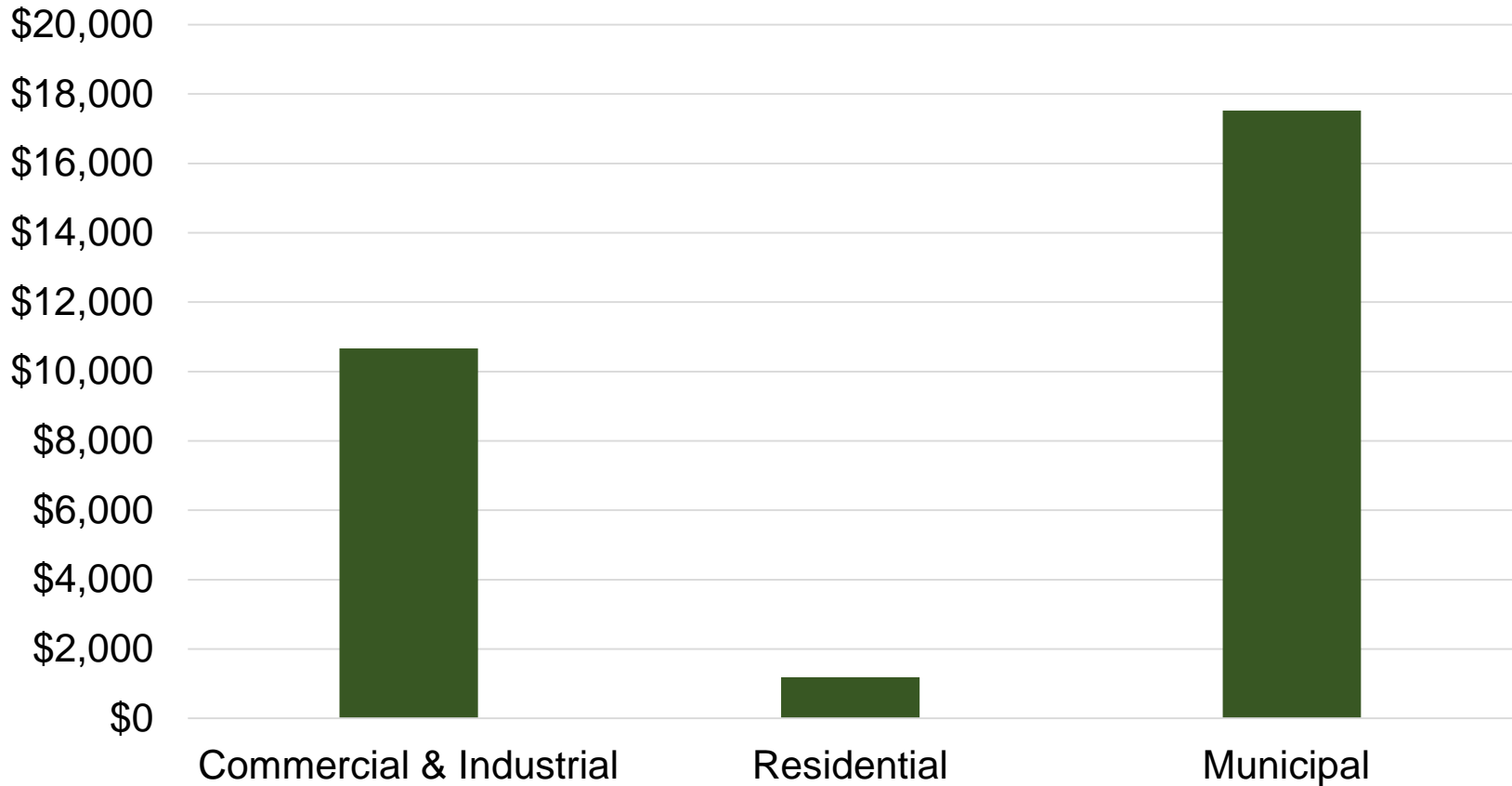


Community Energy Costs



Community Energy Costs

Average Annual Cost per Premise in 2014



Group Discussion: Community Baseline

- Are there any gaps or surprises?
 - Community characteristics
 - Community strengths and assets
 - Community energy data
- Are there other efforts underway to leverage?
- What community assets and opportunities can our Energy Action Plan build upon?

Energy Visioning

What is an Energy Vision?

An energy vision statement is an expression of the community's shared energy intention.

- Serves as a North Star throughout the planning process
- Embodies an ideal that Littleton will work toward throughout the 6 month planning phase and 18 month implementation
- Reflects Littleton's unique voice and community
- Provides a clear vision that will be used as a focusing tool
- Provides a “why” and “how” vs. a “what” and “who”

Example Vision Statements



Educate and empower the community to participate in energy actions that will move Maplewood towards carbon neutrality.

Environmentally sound, affordable, life sustaining energy production, for and by the community for generations to come.



Power our community in a way that protects the natural environment upon which our economy and prosperity is based; secures our energy future by providing energy independence, security and efficiency; and builds on a culture of environmental and social responsibility to ensure the sustainability of our mountain lifestyle for current and future generations.



Littleton's Community Vision

- **Citywide Plan (2014)**

- Littleton is a community that embraces its authentic small town qualities while enjoying the advantages of a metropolitan area. The city should continue to exemplify and promote a sustainable economy, environment, and society.
- Littleton will:
 - Respect and build upon its history
 - Foster its small-town, family-friendly character
 - Be home to people of all ages and backgrounds
 - Value livability, diversity, and progress
 - Promote a vibrant economy for individuals, businesses, and the city as a whole
 - Value the importance of its citizens and its natural resources
 - Manage and direct change
 - Strive for sustainability in economic, environmental, and social decisions
 - Raise the bar to increase the quality of community and economic development



Citywide Plan 2014

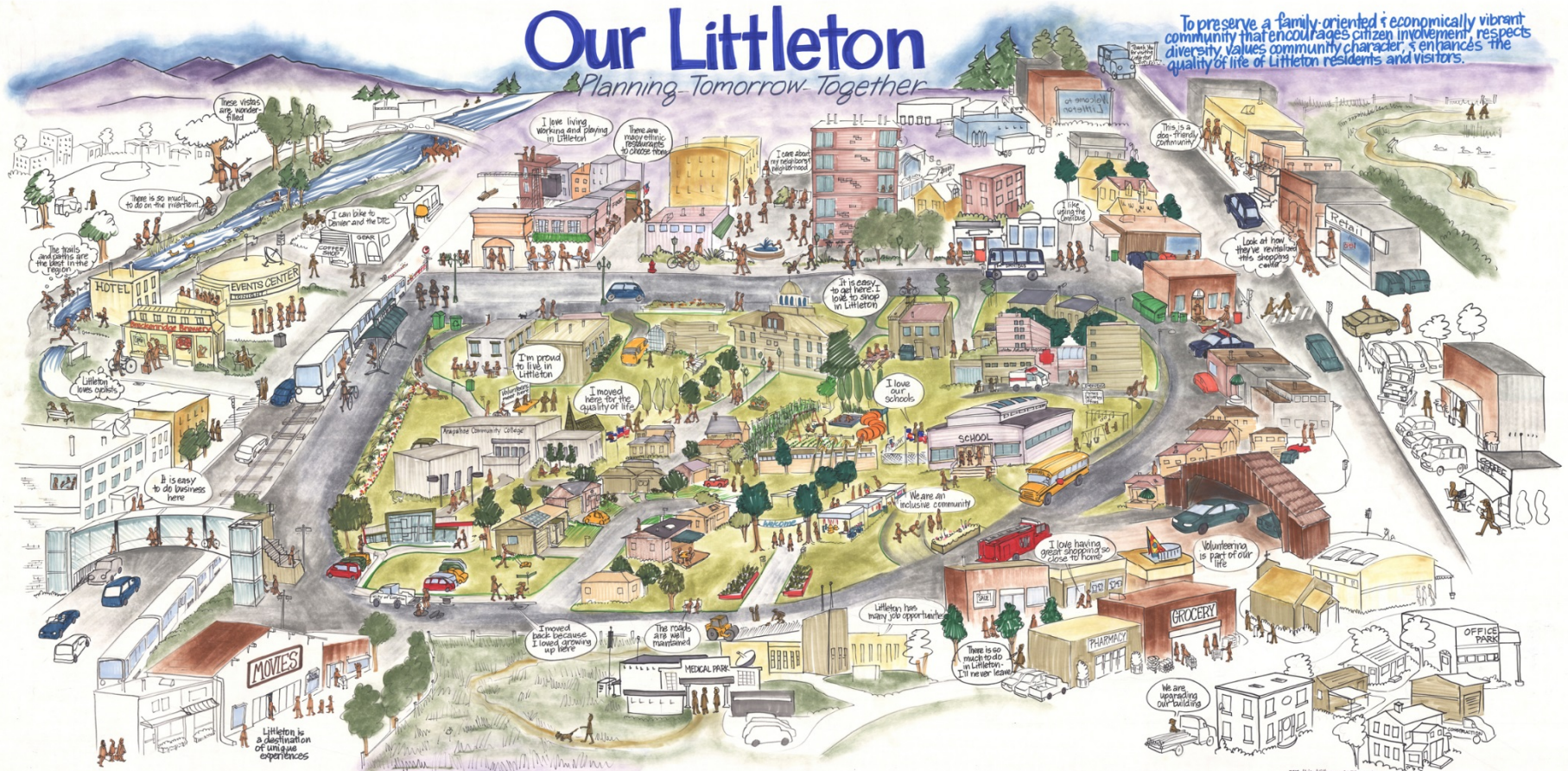
*a section of the
City of Littleton Comprehensive Plan
Adopted January 21, 2014*



Littleton Vision 2013



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AN XCEL ENERGY COMMUNITY PARTNERSHIP

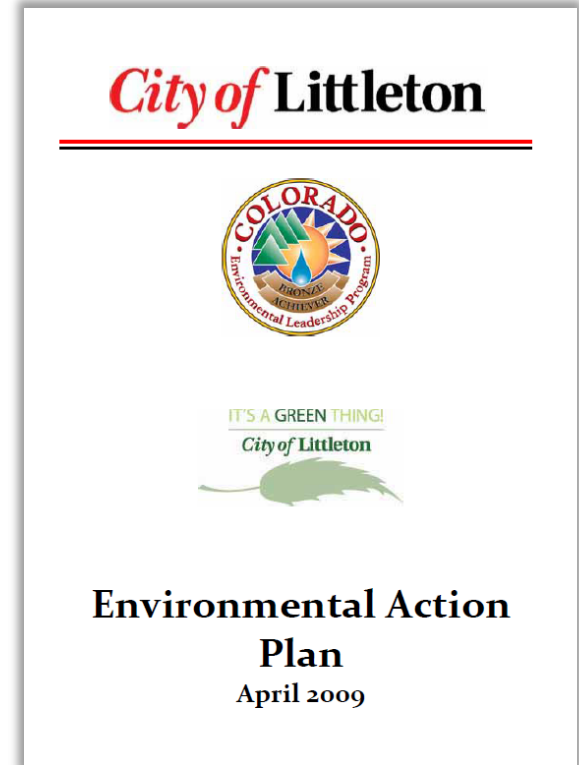


“Our Littleton, Planning Tomorrow Together,”
by City of Littleton 2012



Littleton's Energy Vision

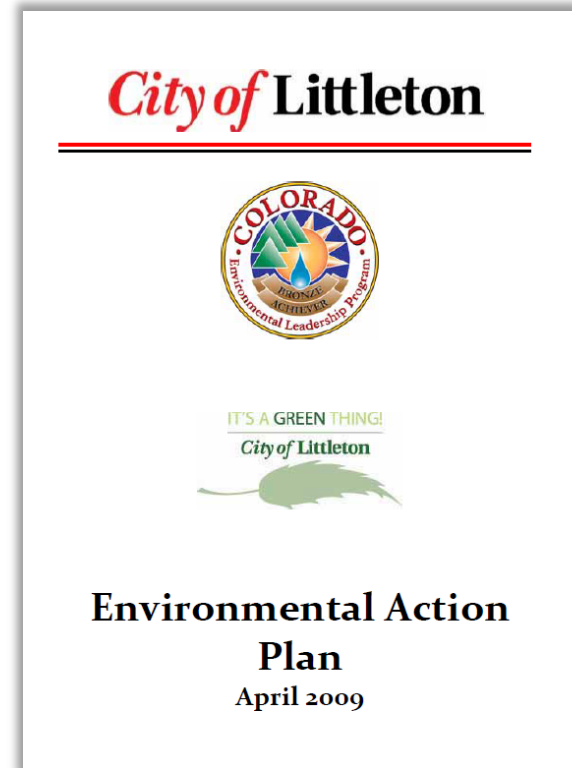
- 2009 Environmental Action Plan
 - **Sustainability Mission Statement**
 - The daily activities of city government have a significant impact on the quality of Colorado's public health, environment, and natural resources. The City of Littleton takes a position of leadership in the new energy economy. The city will reduce energy consumption, increase the use of renewable energy sources, increase energy efficiency, decrease the environmental impact of the city vehicle fleet, and reduce waste.
 - **Energy Conservation Targets**
 - The city wishes to conserve energy, obtain a portion of electricity from a renewable source, and use energy efficiently in lighting, heating, cooling, weatherization, travel, technology, and equipment use.



Littleton Energy Goals

- Environmental Action Plan (2009)
 - **Energy Goals**
 - Reduce city building energy use 10 percent by 2010, using 2008 as a baseline
 - Demonstrate the city's leadership in sustainability and communicate successes and opportunities to the community

Workshop #2 Topic:
Draft Goals



Energy Vision Activity

Building on the 2009 Energy Action Plan sustainability mission and energy conservation target statements, answer one or more of the following questions:



Focus Areas

Focus Areas - Prioritizing

Example Focus Areas

Geographic area with high consumption
(commercial strip or neighborhood)

Target business sector, such as lodging or
grocery/convenience

Multi-family residential

Rental market

Institutional, such as schools, hospitals, faith-
based organizations

Outreach channel, such as contractors or
existing initiative

Broad categories under which to organize
community goals and strategies

Main “Chapters” of our Energy Action Plan

Littleton Focus Areas

Primary Focus Area

Municipal Facilities

Other Focus Areas to Consider for Preliminary Goal Setting & Future Planning

Single-Family Residential

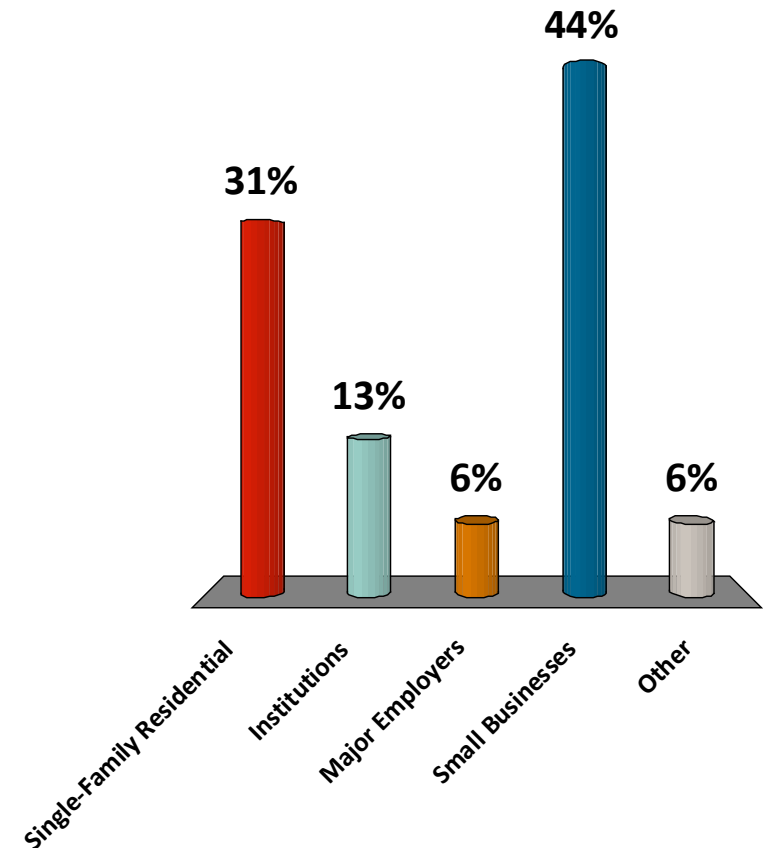
Institutions
(e.g., schools, hospitals, churches)

Major Employers

Small Businesses

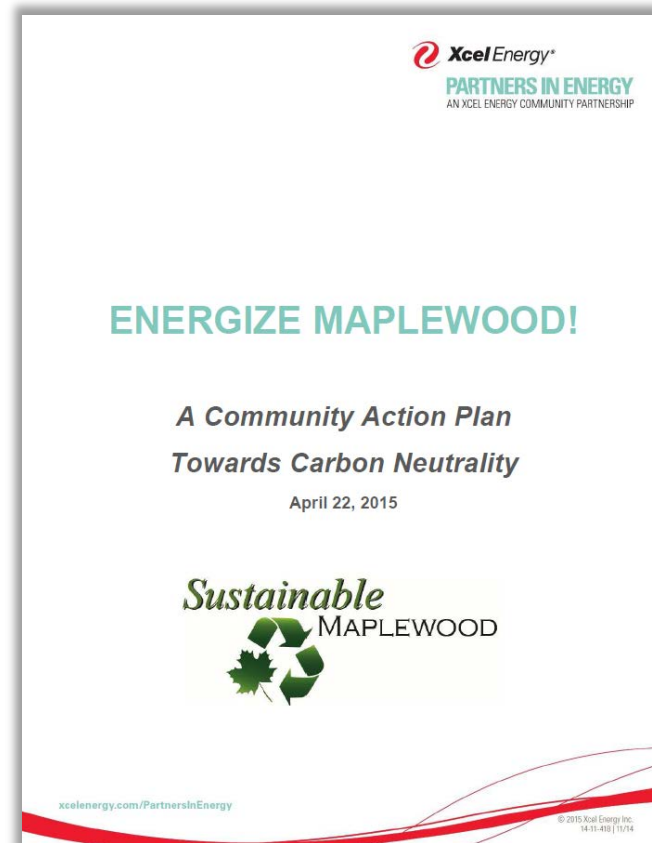
Which energy Focus Areas might make sense for Littleton (select 2)?

- A. Single-Family Residential
- B. Institutions
- C. Major Employers
- D. Small Businesses
- E. Other



Workshop Schedule – 6 months

- Ten to 12 hours of planning to get through all modules
 - Honor your time
 - Stay on course
 - Be as productive as possible when we meet
- Visioning and preliminary goal setting with this whole group
- Strategy and action planning with City staff
- Plan shared with everyone



Sample Energy Action Plan

Workshop #2 Scheduling



Workshop 1 Wrap-up

Workshop 1 Objectives



Credit: City of Littleton Facebook page

By the end of the workshop...

- 1) Planning team members get acquainted and anchor the planning process
- 2) Program goals are clearly communicated
- 3) Littleton's energy baseline is explored
- 4) Past and present Littleton energy efforts are identified
- 5) Visions for Littleton's energy future are shared

Next Time



Credit: City of Littleton Facebook page

Objective 1: Confirm the energy vision statement.

Objective 2: Delve deeper into Littleton's energy data.

Objective 3: Identify focus areas for the plan.

Objective 4: Establish preliminary energy goals.

Objective 5: Explore strategies to achieve those goals.



PARTNERS IN ENERGY

AN XCEL ENERGY COMMUNITY PARTNERSHIP