

GOAL: CLIMATE & ENERGY

CE-1: CLIMATE ADAPTATION

PRELIMINARY STEP

Identify 4 core areas of local climate change adaptation concerns. Core areas must apply to at least 3 of 4 general groupings: Built Environment, Economic Environment, Natural Environment, Social Environment.

List the first core area

Stormwater Infrastructure

List the second core area

Tourism (winter recreation)

List the third core area

Water Resources

List the fourth core area

Recreational Facilities

LOCAL ACTION 1: PLAN DEVELOPMENT

Adopt a climate change adaptation plan

Provide plan title

Routt County Greenhouse Gas Emissions Inventory and Sustainable Energy Benchmarking and Actions (RC Plan); City of Steamboat Springs Sustainability Management Plan (SMP)

Link to or upload full plan

<http://www.co.routt.co.us/DocumentCenter/View/890>

Date plan was officially adopted, endorsed by the local government, or had last major update

2006

If the plan was adopted or updated more than 3 years ago, briefly describe how the plan is still relevant and in use

Routt County is currently working on updating the 2010 RC Plan. We are contracted to complete that work in 2016, which will build upon the 2010 Plan. The SMP was adopted in 2006 and is still relevant and in use because we currently use the goals, recommendations, and strategies to guide sustainability initiatives.

Describe the development process and include information on stakeholder involvement and participating agencies, departments, and/or organizations involved

RC Plan: "At the end of 2009, Routt County and the City of Steamboat Springs partnered with the University of Colorado at Denver and the Colorado Municipal League through a donation from Wal-Mart to begin the process of quantifying sustainability." The inventory was prepared by Alison Culpén, Sustainability Outreach Project Coordinator, and Dr. Anu Ramaswami, Director, at the Center for Sustainable Infrastructure Systems at the University of Colorado at Denver with help from Routt County, the City of Steamboat Springs, and the Yampa Valley Sustainability Council. Data was provided by Routt County, the City of Steamboat Springs, Yampa Valley Sustainability Council, Yampa Valley Regional Airport, Steamboat Springs Airport, Atmos Energy, Yampa Valley Electric Association, and Oak Creek Electric.

SMP: The development of the SMP was a collaborative effort that involved the City's Management Team and Green Team. The first step was creating an understanding of the scope of City operations and the field of existing sustainable practices. Next, a combination of meetings and facility tours helped to establish awareness of organizational culture and opportunities for increased sustainability in operations. Finally, the formation of the SMP was an iterative process with continued opportunity for input from City stakeholders.

Provide vision statement or high-level description of plan goals

RC Plan: To explore ways to increase sustainability in the community and to quantify these efforts SMP: "The City of Steamboat Springs will serve as a community leader in sustainability by striving to conduct our daily operations with the optimal mix of resource efficiency, cost effectiveness, and employee well being. We will use a sustainability framework for making decisions and identifying emerging opportunities that contribute to our goal of becoming a sustainable city. We will inspire commitment to this mission from our employees and work with other organizations to further our common goals."

Describe the key recommendations of the plan

RC Plan: "There is no silver bullet action, as a portfolio of strategies is needed to achieve savings anywhere close to the Colorado Climate Action Plan goal (20% emission reductions by 2020 from 2005 levels) and the various goals the County has and will lay out in the future. While some of the largest reductions may occur due to changes in the energy grid (i.e. the renewable portfolio standard), additional measures will be needed, and individual and community-wide participation in the implementation of the proposed actions is critical." Opportunities for large outcomes exist mainly in the buildings sector, although looking at other sectors is also important and could produce smaller actions that add up to a larger sum. If everyone reduced emissions by 20% in all buildings, there would be a greenhouse gas emissions reduction of 5% below 2005 levels. "It is recommended that this is achieved through performance contracting and other energy efficiency measures," such as energy efficiency financing/mortgages, time of sale ordinance, carbon tax, tiered rate on electricity, pay-as-you-drive auto insurance, gas tax, parking fees, green concrete, and pay-as-you-throw waste management.

SMP: "In order to achieve the maximum economic, social, and environmental benefit, this SMP seeks to incorporate" a policy-based approach, a community education approach, and a greenhouse gas emissions approach. It is suggested that the City use GHG emissions as a metric for success. A baseline for GHG emissions from 2004 is provided should the City decide to pursue and GHG offset program. The key recommendations of the SMP plan include leveraging City funds to access additional capital to implement efficiency measures, related upgrades, and other green building strategies, as well as pursuing funding through the StEPP Foundation and other applicable grants to support renewable energy, energy efficiency, and pollution prevention projects. Specific recommendations include the following. Integrated building design (IBD) should be used on new construction. IBD not only looks at how materials, systems, and products of a building connect and overlap, but also considers how the building and its systems can be integrated with supporting systems on its site and in its community. For the City, installing efficient equipment, from heating/cooling equipment to office

equipment, is an important aspect of integrated design. The commissioning of new construction and retro-commissioning should also be carried out. The City should also integrate green building and historic preservation.

Does the plan contain quantifiable targets or metrics for evaluating progress?

yes

Describe the strategy for implementing plan recommendations, including responsible parties, level of effort anticipated, and resources dedicated

RC Plan: Stakeholders need to be gathered; a committee needs to be formed. Monthly meetings were scheduled to start in the fall of 2010 to establish action items, set goals, develop strategies, and re-inventory; a climate action/sustainability plan needs to be developed; and local entity GHG emissions inventories need

to be taken. In terms of financing, the Governor's Energy Office offers grants and incentives for energy efficiency and renewable energy measures and recently launched a rebate program for energy efficiency measures called "Recharge Colorado." Federal tax credits are also available. Personal lifestyle changes will have to occur in order to achieve reduced emissions, as well as policy changes from local governments, in combination with State and National Government. Greenhouse gas accounting is one way to measure how current and future efforts are progressing. Specifically for Routt County, green buildings, zero waste, and local food will be helpful in reducing impact.

SMP: Strategies for implementing the plan's recommendations include:

1. Contact the Rebuild Colorado (www.colorado.gov/rebuildco) program for assistance with evaluating the applicability of performance contracting for the City.
2. Consider submitting a funding request to the general StEPP pipeline to support followup and/or implementation of a performance contract and/or Priorities B, F, G-K.
3. The Kresge Foundation grants are also a possible resource for green building efforts.
4. The Green Team will be empowered to oversee the implementation of the plan's recommendations.
5. The City should publish an annual sustainability report of progress on action plans.
6. Community-based visioning exercises should be conducted.
7. Decide on indicators to track progress.

LOCAL ACTION 3: PARTNERSHIPS AND COLLABORATION

Develop a committee that includes climate scientists, adjacent jurisdictions, regional coalitions, state and federal agencies, and/or non-governmental organizations for the purpose of understanding and addressing shared vulnerabilities

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

Colorado Local Resilience Project - participants were representatives from 7 of the largest counties and 7 of the largest cities in Colorado. Twelve staff members of state government agencies served as liaisons to the Local Resilience Project, attending the meetings of the project's five work groups. Those work groups focused on cross-cutting issues, public health, infrastructure, natural resources and outdoor recreation, and wildfire preparedness and recovery.

Type of collaboration

Formal partnership

Link to or upload documentation of the partnership or committee's creation or ongoing work

<http://www.coclimatenetwork.org/images/ColoLocalResilienceProjectRpt-lowres.pdf>

Date established

2014

Describe key accomplishments in the past 3 years

The Project members created a report of their findings, called the The Report of The Colorado Local Resilience Project. The Report was a type of "call to action," with 36 recommendations for actions by local governments and the state government to make Colorado's communities more resilient to wildfires, heat waves, floods, ecosystem disruptions, and other climate-change-related risks. The report calls on both local governments across Colorado and the state government to do more to assess and address climate-change-related risks.

A second phase of the report is currently being worked on with a focus on implementation.

Briefly describe the local government's financial contribution and/or elected official/staff time dedicated in the past 3 years

City Council member Sonja Macys was involved in the project on behalf of the City of Steamboat Springs as a member of the Infrastructure Work Group.

LOCAL ACTION 4: EDUCATION AND OUTREACH

Create an education and outreach campaign to engage citizens and businesses in climate change vulnerability reduction efforts

Type of education and outreach effort within the past 3 years – choose 3:

EVENTS, CLASSES, OR WORKSHOPS

Provide the following for three events, classes or workshops held

Provide the title and a brief description

Preservation Green Lab: Creating Sustainable Communities by Investing in Older Buildings

Date

09/22/2015

Provide the title and a brief description

Leveraging Waste with Future Pointe's Brendan McCrann

Date

01/28/2014

Provide the title and a brief description

Feed People Not Landfills with EPA's Virginia Till

Date

04/28/2015

PRINT MATERIALS

Provide the following for printed material:

Provide the title and a brief description

The Recycling Guide '15 tells readers about recycling locations, hours, and standards, and provides an A-Z recycling guide for objects like batteries, anti-freeze, cell phones, and much more.

Link to or upload a copy of the printed material

http://www.yvsc.org/wp-content/uploads/2015/03/21115336_YVR_RecyclingGuide15-4.pdf

SOCIAL MEDIA

Provide the following for social media:

Describe social media effort

Yampa Valley Sustainability Council (YVSC) is a resource and catalyst for building a sustainable community. Their Facebook page provides followers with updates on actions and information on outreach and education.

Link to social media website

<http://www.facebook.com/SteamboatYVSC>

LOCAL ACTION 5: POLICY AND CODE ADJUSTMENT

Adopt zoning code, building code, or other legally binding regulations that address future climate change threats

Provide title of policy or code requirement

Article IV: Zone Districts and Permitted Uses

Link to or upload copy of the policy or code requirement

https://www.municode.com/library/co/steamboat_springs/codes/code_of_ordinances?nodeId=PTIISTSPREMUCO_CH26CO

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

Article IV outlines zone districts, each with distinct regulations. The Open Space and Recreation Zone District (OR), a standard zone district, includes the protection of environmentally sensitive areas such as wetlands, floodplains, rivers, and streams. It also includes development buffers. Prohibited in the OR districts is all residential uses with the exception of conditional use employee units; all commercial uses with a few exceptions, including campgrounds, construction trailers, garage sales, mobile food units and vending, and recreation centers; and all industrial uses with the exception of recycling collection facilities.

Was there public engagement during development of the policy or regulation?

yes

LOCAL ACTION 6: PROGRAMS AND SERVICES

Create or enhance programs and services that specifically help address climate change threats

List of programs active within the past 3 years

- ReTree Steamboat
- Energy Program
- Green Building Program
- Sustainable Schools
- Talking Green
- Yampa Valley Recycles
- Zero Waste Initiative
- Spare the Air
- and Water Conservation and Quality

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

Yampa Valley Sustainability Council (YVSC) provides all of the above programs to Steamboat Springs. Over the last five years, YVSC has engaged 2,058 volunteers to plant and care for 23,190 trees as part of ReTree. Since 2011, YVSC has maintained a survival rate of >60% for the planted seedlings. As part of the Energy and Green Building Programs, student education on waste and energy is provided through workshops and classes. Talking Green provides a series of adult education lectures related to sustainability, resilience, and behavior changes. Sustainable Schools promotes sustainability in Routt County Schools and activism among the students. Among its many accomplishments, the program has created student-led Green Teams at 6 Steamboat Schools, replaced styrofoam trays with reusable plates at the middle and elementary schools, and helped make more than 20 school events annually "go zero." Spare the Air is a non-idling campaign and a collaboration among nonprofits, businesses, and community groups in the area. Supporting businesses put up signs in parking lots asking drivers to refrain from idling, turn their engines off, and "spare the air."

LOCAL ACTION 7: ENFORCEMENT AND INCENTIVES

Enforce regulations or offer incentives to encourage residents and businesses to shift behaviors to prepare for future climate change impacts

INCENTIVES

Number of participants in local incentive program in the past 3 years

34 Cen\$ible Energy; 226 Water Rebate

Link to or upload copy of written incentive

CE-1 A-7.zip

Describe the compelling characteristics of the incentive that advance progress towards the desired Outcome(s)

Cen\$ible Energy is a partnership between the Yampa Valley Electric Association, the Yampa Valley Sustainability Council, the City of Steamboat Springs, and Yampatika. They track and report on energy savings through the rebate program. Rebates are available to residential and small business members in Routt, Moffat, Eagle, and Carbon Counties. The program helps customers take sensible and practical steps to help save energy and lower electricity bills. The program currently covers LED lights, energy star appliances, programmable thermostats, energy audits, and air sealing. Since the program was started in April of 2015, it has provided \$3,469 in rebates for 34 households and contributed \$21,610.23 toward the local economy in energy efficiency purchases.

The City's Water Efficient Fixture Rebate Program provides rebates for EPA WaterSmart Toilets, Dishwashers, and Clothes Washers. Increasing the number of water efficient fixtures within the community helps to reduce water demands and pressure on the waste water treatment plant. This helps to defer expensive expansion of water treatment plants and/or storage facilities. This program began in 2012.

Date incentive was created or implemented

2012

LOCAL ACTION 8: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Improve facilities throughout the community to be better prepared for climate change threats

List of infrastructure improvements in the past 3 years

- HVAC destratification system installation
- raw water irrigation at City parks
- irrigation water sensors
- drip irrigation
- leak detection with listening devices
- lighting and window upgrades
- Energy Star office equipment
- efficient heating and cooling upgrades
- low-flow fixture upgrades
- major lighting upgrade at Howelsen Hill
- HVAC control optimization
- improving the controls and heating sources for storage garage bays and wash bays at Public Works
- using radiant heaters as the primary heat source at several buildings.

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

Many of these infrastructure improvements have been executed as part of Steamboat Springs' Sustainability Management Plan or as part of Facilities' yearly planned maintenance, including the HVAC destratification system, irrigation upgrades, light and window upgrades, the purchase of Energy Star office equipment, heating and cooling upgrades, low-flow fixture upgrades, and the lighting upgrades at Howelsen Hill. In addition to the large projects listed above, it is the practice of Steamboat's Facilities department to install upgraded equipment whenever possible. For example, when replacing light bulbs, LEDs are used. When replacing toilets and urinals, low-flows are used.

In 2009, McKinstry was contracted to perform a Technical Energy Audit (TEA) with the intent of developing a performance-contracting project with Steamboat Springs. The final TEA was delivered to the City on November 5th, 2009, an Energy Performance Contract (EPC) totaling \$869,273 was signed in November of 2009, and construction for all work was completed and accepted in February of 2011. Yearly reports are completed. The projects completed by performance contracting include lighting upgrades, HVAC control optimization, improving the controls and heating sources for storage garage bays and wash bays at Public Works, and using radiant heaters as the primary heat source at several buildings.

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

The City signed an Energy Performance Contract with McKinstry for \$869,273 in 2009. The contract includes yearly reports on the findings and recommendations of McKinstry. Facilities spent approximately \$67,050 of their planned maintenance budget from 2013-2015 on improvements including an HVAC destratification system and lighting and window upgrades. Approximately \$100,000 has been spent on irrigation upgrades in the past three years. The City spent \$150,000 on the Howelsen Hill lighting upgrade project.

CE-2: GREENHOUSE GAS MITIGATION

LOCAL ACTION 1: PLAN DEVELOPMENT

Adopt a climate action plan designed to reduce GHG emissions throughout the jurisdiction

Provide plan title

Routt County Greenhouse Gas Emissions Inventory and Sustainable Energy Benchmarking and Actions (RC Plan); City of Steamboat Springs Sustainability Management Plan (SMP)

Link to or upload full plan

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Provide vision statement or high-level description of plan goals

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Describe the key recommendations of the plan

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incorporate" a policy-based approach, a community education approach, and a greenhouse gas emissions approach. It is suggested that the City use GHG emissions as a metric for success. A baseline for GHG emissions from 2004 is provided should the City decide to pursue and GHG offset program.

Does the plan contain quantifiable targets or metrics for evaluating progress?

yes

Describe the strategy for implementing plan recommendations, including responsible parties, level of effort anticipated, and resources dedicated

RC Plan: Stakeholders need to be gathered; a committee needs to be formed; monthly meetings were scheduled to start in the fall of 2010 to establish action items, set goals, develop strategies, and re-inventory; a climate action/sustainability plan needs to be developed; and local entity GHG emissions inventories need to be taken. In terms of financing, the Governor's Energy Office offers grants and incentives for energy efficiency and renewable energy measures and recently launched a rebate program for energy efficiency measures called "Recharge Colorado." Federal tax credits are also available. Personal lifestyle changes will have to occur in order to achieve reduced emissions, as well as policy changes from local governments in combination with State and National Government. Greenhouse gas accounting is one way to measure how current and future efforts are progressing. Specifically for Routt County, green buildings, zero waste, and local food will be helpful in reducing impact.

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1. Contact the Rebuild Colorado (www.colorado.gov/rebuildco) program for assistance with evaluating the applicability of performance contracting for the City.
2. Consider submitting a funding request to the general StEPP pipeline to support followup and/or implementation of a performance contract and/or Priorities B, F, G-K.
3. The Kresge Foundation grants are also a possible resource for green building efforts.
4. The Green Team will be empowered to oversee the implementation of the plan's recommendations.
5. The City should publish an annual sustainability report of progress on action plans.
6. Community-based visioning exercises should be conducted.
7. Decide on indicators to track progress.

LOCAL ACTION 3: EDUCATION AND OUTREACH

Create an education and outreach campaign to engage citizens and businesses in GHG reduction

efforts

Type of education and outreach effort within the past 3 years – choose 3:

EVENTS, CLASSES, OR WORKSHOPS

Provide the following for three events, classes or workshops held

Provide the title and a brief description

Calculating Greenhouse Gas Emissions – Understanding all the factors with Mark Easter

Date

10/01/2015

Provide the title and a brief description

Green Building Tour – touring three inspiring homes in Midvalley

Date

11/02/2014

Provide the title and a brief description

Thinking Outside the Car: Alternative transportation

Date

07/22/2014

WEBSITE

Provide the appropriate link

<http://www.yvsc.org/>

SOCIAL MEDIA

Provide the following for social media:

Describe social media effort

Yampa Valley Sustainability Council (YVSC) is a resource and catalyst for building a sustainable community. Their Facebook page provides followers with updates on actions and information on outreach and education.

Link to social media website

<http://www.facebook.com/SteamboatYVSC>

LOCAL ACTION 5: PRACTICE IMPROVEMENTS

Modify local government operations and facilities in order to reduce GHG emissions and serve as a leader in the community

Describe the practice improvement

The City adopted a Sustainability Management Plan in 2006 in order to provide immediate direction and a suggested framework for advancing sustainability in the internal operations of the City.

Describe key accomplishments in the past 3 years

The City has purchased hybrid buses and hybrid vehicles has for the transit and fleet departments respectively. Facilities has also installed 40-kw electric solar panels and hot water solar panels at the Community Center and an electric charging station at City Hall.

Link to or upload a copy of annual report – if applicable

Sustainability Management Plan 2006.pdf

LOCAL ACTION 6: POLICY AND CODE ADJUSTMENT

Adopt energy efficiency regulations for buildings within the jurisdiction

Provide the title of the specific policy or code

City Ordinance 2443 adopting the 2009 International Codes

Link to or upload copy of the policy or code requirement

CE-2 A-6.zip

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

2012 City Ordinance 2443 adopting the international building and energy conservation codes 2009 edition was effective in January of 2013. Both the City and the County adopted the codes. The adopted international building and energy conservation codes require buildings to be more energy efficient than the previously adopted building code. The codes contain energy efficiency requirements for residential areas and for commercial areas. These energy efficiency requirements include high efficiency standards for water-heating equipment, hot water storage tanks, and piping. They also include efficiency standards for electrical power and lighting systems. The City and the County will seek to adopt the 2015 International Codes in 2016.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2012

LOCAL ACTION 7: ENFORCEMENT AND INCENTIVES

Create incentives to improve opportunities for distributed generation of energy

Total number of businesses and residents using incentive structure for the past 3 years

99 Community Owned Solar Garden Participants, 14 members on Net Metering Tariff

Link to or upload copy of written incentive

<http://www.yvea.com/content/renewable-energy-interconnection>

Describe the compelling characteristics of the incentive that advance progress towards the desired Outcome(s)

Power from Solar Garden Solar Array is compensated at .10/KWH whereas current purchase price of electricity is .08215/KWH We have 14 members who are net metered on Rate 52, which compensates them .10/KWH (versus .08215/KWH purchase cost) for any over-production of renewable energy.

Date incentive was created or implemented

2014

LOCAL ACTION 8: PROGRAMS AND SERVICES

Implement specific programs and services or create facility upgrades that transition the community towards the use of alternatives modes of transportation and low-emissions vehicles

Applying for credit through other Actions in the system - select two of the following

Implement specific programs and services or create facility upgrades that reduce waste in the community

Applying for credit through other actions in the system - select two of the following actions

Provide the community's most recent annual or 5-year average increase in alternative fuel vehicles ownership

Unable to calculate percentage (see excel sheet), but number of alt fuel vehicles owned has increased

Upload completed Excel worksheet showing the increases over time

ce-3-greeningenergysupply-outcome1.steamboatspringsco.xlsx

Part 2: Demonstrate increased ownership of fuel-efficient vehicles by residents over time (Partial credit available)

Provide the community's most recent annual or 5-year average increase in fuel-efficient vehicles ownership

6.98%

Upload completed Excel worksheet showing the increases over time

ce-3-greeningenergysupply-outcome1.steamboatspringsco.xlsx

LOCAL ACTION 2: POLICY AND CODE ADJUSTMENT

Create a policy to ensure that the local government's transportation and non-transportation energy supplies increasingly come from renewable and alternative sources

Provide the title of the specific policy or code

There is no specific policy, but Steamboat Springs Transit has made it a practice to use 5% bio-diesel when ever possible. Gelling issues compel SST to use 2% bio-diesel in the coldest times of the year.

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

Unreliability and impurity of bio-diesel made it a poor option for many years. Several colleague agencies were using bio-diesel with a significant biocide additive to eliminate algae buildup. The emission of burned biocide was not a responsible option for SST. When the fuel became more standardized and purified, SST began using 2% blend and has increased it to 5%. As the fuel improves, a higher percentage may be examined.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2014

LOCAL ACTION 3: POLICY AND CODE ADJUSTMENT

Remove zoning, height, and other regulatory restrictions on the development of small-scale renewable energy installations and alternative fueling systems

Provide the title of the specific policy or code

Solar Fee Policy

Link to or upload copy of the policy or code requirement

<http://www.co.routt.co.us/DocumentCenter/View/318>

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

This policy advances progress towards the desired outcome by limiting building permit fees for solar installations on residential and commercial buildings. According to Colorado HB1199, the "Fair Permit Act," fees for "an active solar electric or solar thermal device or system" are limited to \$500.00 for a residential installation and \$1000.00 for

a non-residential system. According to the policy statement from the Routt County Regional Building Department regarding this policy, "Discussions with the City of Steamboat Springs have revealed that their plan review costs for solar installations are estimated at \$130.00. With this in mind, the Regional Building Department (RBD) building permit and plan check fees will be calculated based on valuation of labor and materials with any fees in excess of the limitations of HB1199 credited back to the applicant. The building permit and plan check fees will be the same in all

jurisdictions served by the RBD."

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2012

LOCAL ACTION 5: POLICY AND CODE ADJUSTMENT

Adopt a renewable energy or alternative fuel targets for locally owned facilities and vehicles

Provide the title of the specific policy or code

Steamboat Springs Transit Alternative Fuel Systems Analysis

Link to or upload copy of the policy or code requirement

SST_AltFuelsReport_FINAL_051314.pdf

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

An analysis was performed in 2014 to determine what types of clean and alternative fuels would be most successful in a mountain environment. Once this analysis was complete, the City followed the recommendation of the study through the purchasing practice of only purchasing hybrid transit vehicles. As indicated in the attached study, Hybrid fuel economy is largely dependent on driver, speed, and terrain, and therefore training, route development, and maintenance were very important to the success of the adoption of alternative fuel vehicles. The fuel study took these factors into account and analyzed four different fuel options suitable to our environment. With an introduction of hybrid vehicles, the estimated improvement in fuel economy was 5-15%. Since the incorporation of hybrid vehicles into our fleet, we have seen an actual increase of 20-30% in fuel economy.

Was there public engagement during development of the policy or regulation?

no

Date policy or code adoption was adopted or last major update

2014

LOCAL ACTION 8: PROGRAMS AND SERVICES

Run a net-metering program that encourages the development of small scale renewable energy sources

Provide the name and a brief description of the program or service

Community-owned Solar Garden: Power from Solar Garden Solar Array is compensated at .10/KWH whereas current purchase price of electricity is .08215/KWH

Total number of program participants in the past 3 years

99 Solar Garden Participants, 14 members on Net Metering Tariff

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

This program offers incentives for our membership to purchase and/or install renewable power. Additionally, we have a Net Metering Tariff in which 14 members who have net metering are on Rate 52, which compensates them .10/KWH (versus .08215/KWH purchase cost) for any over-production of renewable energy. The Community-owned Solar Garden began in 2015 and the Net Metering Tariff began in 2014.

Date program or service was created or implemented

2014

LOCAL ACTION 10: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Install electric vehicle charging stations

Total number of stations added in the past 3 years

4

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

Four new electric vehicle charging stations have been added in the past 3 years. The new EV charging stations include: Colorado Mountain College (one J1772 EV plug), City of Steamboat Springs City Hall (two J1772 EV plugs), Wyndham Vacation Resorts (one J1772 EV plug), and Sheraton Steamboat Resort (2 EV Plug J1772s, one Tesla HPWC (Model S))

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

The City of Steamboat Springs invested \$11,400 in the two electric vehicle recharging stations located in the downtown area, adjacent to City Hall. The EV charging stations at Colorado Mountain College, Wyndham Vacation Resorts, and Sheraton Steamboat Resort were installed by and paid for by those entities.

CE-4: INDUSTRIAL SECTOR RESOURCE EFFICIENCY

LOCAL ACTION 3: POLICY AND CODE ADJUSTMENT

Adopt regulations or codes that promote the industrial sector to reduce energy and water use

Provide the title of the specific policy or code

Watershed Protection Ordinance

Link to or upload copy of the policy or code requirement

<http://steamboatsprings.net/DocumentCenter/View/279>

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

It should be noted that Steamboat Springs has limited industrial activity. The purposes of the Watershed Protection Ordinance include promoting the health, welfare, and safety of the inhabitants of the City of Steamboat Springs. This is done by maintaining and protecting the city's watershed and waterworks from damage, harm, or injury, and preventing pollution of the city's water supply, without creating an undue hardship on activities that promote the protection of the city's watershed and waterworks. Industrial activities within the 5-mile watershed protection zones must apply for a City permit and provide for Best Management Practices to mitigate impacts on community water supplies.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2007

LOCAL ACTION 5: PARTNERSHIPS AND COLLABORATION

Work collaboratively with local industrial sector leaders to set local targets and strategies to reduce energy and water use

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

Routt County works with industrial operators mainly through a Special Use Permit Process.

Type of collaboration

Formal partnership

Link to or upload documentation of the partnership or committee's creation or ongoing work

<http://www.co.routt.co.us/DocumentCenter/View/958>

Date established

2015

Describe key accomplishments in the past 3 years

Routt County works with industrial operators through a Special Use Permit Process. Many of the permits that go through the approval process and are accepted have conditions that require Best Management Practices for energy and water conservation.

Briefly describe the local government's financial contribution and/or elected official/staff time dedicated in the past 3 years

The County's Planning Department, Road and Bridge, the Planning Commission, and the Board of Commissioners are responsible for reviewing the applications and ensuring that the industrial operators have met the requirements of the permits.

LOCAL ACTION 6: EDUCATION AND OUTREACH

Create training and educational opportunities for industrial sector employees to learn about current best practices and techniques for reducing energy and water use

Type of education and outreach effort within the past 3 years – choose 3:

EVENTS, CLASSES, OR WORKSHOPS

Provide the following for three events, classes or workshops held

Provide the title and a brief description

Yampa Valley Sustainability Council's Green Building Program - educate contractors, realtors, developers and architects on sustainable building processes - including natural resource (energy and water) conservation

Date

October/November Annually

Provide the title and a brief description

SIGA Air Sealing Workshop - provided hands-on training for contractors on air sealing using SIGA products

Date

02/26/2015

Provide the title and a brief description

USDA Renewable Energy for America Program (REAP) training - Brought USDA representative to Routt County to present grant application process for REAP funding

Date

03/2014, 03/2015

WEBSITE

Provide the appropriate link

<http://www.yvsc.org>

OTHER

Description of education or outreach effort

The Steamboat Sustainable Business Consortium holds the Sustainable Business Program for coaching and certification, an accredited program designed to help Yampa Valley businesses become more sustainable and focused on their triple bottom line.

Total number of participants

83

LOCAL ACTION 7: PROGRAMS AND SERVICES

Administer programs that support the industrial sector's transition to less energy and water intensive practices

Provide the name and a brief description of the program or service

Censible Energy - provides rebates for energy assessments and efficiency upgrades for residents and industries

Number of industries participating in the past 3 years

N/A - program started 04/2015

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

We track and report on energy savings through the rebate program. Rebates are available to residential and small business members in Routt, Moffat, Eagle, and Carbon Counties. The program helps customers take sensible and practical steps to help save energy and lower electricity bills. The program currently covers LED lights, energy star appliances, programmable thermostats, energy audits, and air sealing.

Date program or service was created or implemented

2015

CE-5: RESOURCE EFFICIENT BUILDINGS

OUTCOME 2: WATER EFFICIENCY

Demonstrate incremental progress towards achieving an 80% reduction by 2050 in the water use intensity of the community's building stock. (Partial credit available)

Is the community on track to achieve an 80% reduction in building stock water use intensity by 2050?

yes

Provide the community's most recent annual or 5-year average percent reduction of water use intensity

-7.01%

Upload a completed Excel worksheet demonstrating reductions in water use intensity

ce-5-buildings-outcome2-steamboatspringsco.xlsx

LOCAL ACTION 1: PLAN DEVELOPMENT

Adopt a building energy efficiency plan to improve the energy and water efficiency of commercial, residential, and institutional buildings in the community

Provide plan title

City of Steamboat Springs Sustainability Management Plan (SMP); Routt County Greenhouse Gas Emissions Inventory and Sustainable Energy Benchmarking and Actions (RC Plan)

Link to or upload full plan

<http://steamboatsprings.net/DocumentCenter/View/1878>

Date plan was officially adopted, endorsed by the local government, or had last major update

2006

If the plan was adopted or updated more than 3 years ago, briefly describe how the plan is still relevant and in use

The SMP was adopted in 2006 and is still relevant and in use because we currently use the goals, recommendations, and strategies to guide sustainability initiatives. Routt County is currently working on updating the 2010 RC Plan. We are contracted to complete that work in 2016, which will build upon the 2010 Plan.

Describe the development process and include information on stakeholder involvement and participating agencies, departments, and/or organizations involved

SMP: The development of the SMP was a collaborative effort that involved the City's Management Team and Green Team. The first step was creating an understanding of the scope of City operations and the field of existing sustainable practices. Next, a combination of meetings and facility tours helped to establish awareness of organizational culture and opportunities for increased sustainability in operations. Finally, the formation of the SMP was an iterative process with continued opportunity for input from City stakeholders.

RC Plan: "At the end of 2009, Routt County and the City of Steamboat Springs partnered with the University of Colorado at Denver and the Colorado Municipal League through a donation from Wal-Mart to begin the process of quantifying sustainability." The inventory was prepared by Alison Culpen, Sustainability Outreach Project Coordinator, and Dr. Anu Ramaswami, Director at the Center for Sustainable Infrastructure Systems at the University of Colorado at Denver with help from Routt County, the City of Steamboat Springs, and the

Yampa Valley Sustainability Council. Data was provided by Routt County, the City of Steamboat Springs, Yampa Valley Sustainability Council, Yampa Valley Regional Airport, Steamboat Springs Airport, Atmos Energy, Yampa Valley Electric Association, and Oak Creek Electric.

Provide vision statement or high-level description of plan goals

SMP: "The City of Steamboat Springs will serve as a community leader in sustainability by striving to conduct our daily operations with the optimal mix of resource efficiency, cost effectiveness, and employee well being. We will use a sustainability framework for making decisions and identifying emerging opportunities that contribute to our goal of becoming a sustainable city. We will inspire commitment to this mission from our employees and work with other organizations to further our common goals." RC Plan: To explore ways to increase sustainability in the community and to quantify these efforts.

Describe the key recommendations of the plan

SMP: The key recommendations of the SMP plan regarding energy and water efficiency include leveraging city funds to access additional capital to implement efficiency measures, related upgrades, and other green building strategies, as well as pursuing funding through the StEPP Foundation and other applicable grants to support renewable energy, energy efficiency, and pollution prevention projects. Specific recommendations include the following. Integrated building design (IBD) should be used on new construction. IBD not only looks at how materials, systems, and products of a building connect and overlap, but also considers how the building and its systems can be integrated with supporting systems on its site and in its community. For the City, installing efficient equipment, from heating/cooling equipment to office

equipment, is an important aspect of integrated design. The commissioning of new construction and retro-commissioning should also be carried out. The City should also integrate green building and historic preservation.

RC Plan: "Lighting accounts for about 35% of total electricity used in commercial buildings." The Plan recommends replacing our T12 ballasts used for overhead lighting with T8 ballasts, which are 30% more efficient and which would be a low cost replacement. It also recommends that the County provides two Compact Fluorescent Lights (CFLs) to 60% of the community by 2020. Demand-Side Management is also recommended, which would require investor-owned and regulated public and cooperative utilities to invest a fraction of annual revenue into energy efficiency installations. The County has already begun to encourage new homes to adopt green building standards, and continuing this effort to commercial construction and existing buildings would result in significant energy reductions.

Does the plan contain quantifiable targets or metrics for evaluating progress?

yes

Describe the strategy for implementing plan recommendations, including responsible parties, level of effort anticipated, and resources dedicated

SMP: Strategies for implementing the plan's recommendations include:

1. Contact the Rebuild Colorado (www.colorado.gov/rebuildco) program for assistance with evaluating the applicability of performance contracting for the City.
2. Consider submitting a funding request to the general StEPP pipeline to support followup and/or implementation of a performance contract and/or Priorities B, F, G-K.
3. The Kresge Foundation grants are also a possible resource for green building efforts.
4. The Green Team will be empowered to oversee the implementation of the plan's recommendations.
5. The City should publish an annual sustainability report of progress on action plans.
6. Community-based visioning exercises should be conducted.
7. Decide on indicators to track progress.

RC Plan: It is estimated that providing two CFLs to 60% of the community by 2020 would cost the County around \$30,000. With education and outreach, it is believed that participation rates for green buildings would increase from 5% to 10%. Stakeholders need to be gathered; a committee needs to be formed; monthly meetings were scheduled to start in the fall of 2010 to establish action items, set goals, develop strategies, and re-inventory; a climate action/sustainability plan needs to be developed; and local entity GHG emissions inventories need to be taken. In terms of financing, the Governor's Energy Office offers grants and incentives for energy efficiency and renewable energy measures and recently launched a rebate program for energy efficiency measures called "Recharge Colorado." Federal tax credits are also available. Personal lifestyle changes will have to occur in order to achieve reduce emissions, as well as policy changes from local governments in combination with State and National Government. Greenhouse gas accounting is one way to measure how current and future efforts are progressing. Specifically for Routt County, green buildings, zero waste, and local food will be helpful in reducing impact.

LOCAL ACTION 2: POLICY AND CODE ADJUSTMENT

Adopt or upgrade building codes to ensure that new and renovated buildings are more water and energy efficient

Provide the title of the specific policy or code

City Ordinance 2443 adopting the 2009 International Codes

Link to or upload copy of the policy or code requirement

CE-5 A-2.zip

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

2012 City Ordinance 2443 adopting the international building and energy conservation codes 2009 edition was effective in January of 2013. Both the City and the County adopted the codes. The adopted international building and energy conservation codes require buildings to be more energy efficient than the previously adopted building code. The codes contain energy efficiency requirements for residential areas and for commercial areas. These energy efficiency requirements include high efficiency standards for water-heating equipment, hot water storage tanks, and piping. They also include efficiency standards for electrical power and lighting systems. The City and the County will seek to adopt the 2015 International Building Codes in 2016.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2012

LOCAL ACTION 4: EDUCATION AND OUTREACH

Create an education and outreach campaign or challenge to engage citizens and businesses in energy and water efficiency efforts

Type of education and outreach effort within the past 3 years – choose 3:

WEBSITE

Provide the appropriate link

<http://www.yvea.com/content/residential-energy-survey>

SOCIAL MEDIA

Provide the following for social media:

Describe social media effort

Energy Efficiency Tips monthly-- facebook page

Link to social media website

<https://www.facebook.com/YampaValleyElectricAssociation?fref=ts>

OTHER

Description of education or outreach effort

Colorado Country Life-Monthly Energy Efficiency Tip

Total number of participants

Mailed to 18,300 members

LOCAL ACTION 5: PARTNERSHIPS AND COLLABORATION

Establish a committee to provide recommendations on policies related to resource efficiency in buildings OR integrate this role into the work of existing committees

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

The Green Team is a committee consisting of 5 city staff members and 3 community member advisers. The advisers include representatives from Routt County Environmental Health or Facilities, the building/trades profession, and the Yampa Valley Sustainability Council. The members are appointed by the City Manager. All members must be committed to the sustainable integrity of Steamboat Springs. The Green Team was a committee prior to 2010, but in 2010 had to disband due to budget concerns. In 2014, the committee was created again.

Type of collaboration

Appointed committee

Link to or upload documentation of the partnership or committee's creation or ongoing work

CE-5, A-5.CityCouncilPrioritiesGreenTeamSteamboatsprings.pdf

Date established

2014

Describe key accomplishments in the past 3 years

Prior to the group being disbanded in 2010, they played a major role in the creation of the City of Steamboat Springs' Sustainability Management Plan. The plan "provides immediate direction and a suggested framework for advancing sustainability in the internal operations of the City."

In 2014, the group was reestablished through a set of objectives set by City Council in May of 2014. Since that time, the team has set initial objectives and will use the STAR report as their baseline for starting new initiatives and making recommendations.

Briefly describe the local government's financial contribution and/or elected official/staff time dedicated in the past 3 years

The team meets once every week in a public meeting room. The team is in part made up of five city staff members and one representative from Routt County. Each member commits to one year service.

LOCAL ACTION 6: PARTNERSHIPS AND COLLABORATION

Work with the local utilities to improve energy efficiency programs and increase sub-metering throughout the community

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

Cen\$ible Energy--Partnership between Yampa Valley Electric Association (provided \$10,000, website, print material, and staff time), Yampa Valley Sustainability Council (provided forms, staff time, fiscal agency), City of Steamboat Springs (provided \$6,000), and Yampatika (provided staff time.)

Type of collaboration

Formal partnership

Link to or upload documentation of the partnership or committee's creation or ongoing work

<http://www.censibleenergy.org/about-the-program.html>

Date established

2015

Describe key accomplishments in the past 3 years

In three months, Cen\$ible Energy provided \$3,469 in rebates for 34 households, and contributed \$21,610.23 toward the local economy in Energy Efficiency purchases.

Briefly describe the local government's financial contribution and/or elected official/staff time dedicated in the past 3 years

City of Steamboat Springs contributed \$6,000 in 2014 and \$6000 in 2015.

LOCAL ACTION 7: PRACTICE IMPROVEMENTS

Train inspectors to enforce water and energy efficiency standards in adopted building codes

Describe the practice improvement

The Routt County Building Department trains their inspectors to enforce energy efficiency standards as they perform their inspections.

Describe key accomplishments in the past 3 years

The Building Department performs regular in-house training sessions with their inspectors during the slower winter months. The training involves learning the code and recognizing when various aspects of building construction, such as windows and doors, are not up to code. Annual reports are not completed.

The Building Department, along with the Routt County Green Building Program reviewers, attend the yearly Colorado Chapter of the International Code Council educational/training sessions.

LOCAL ACTION 8: ENFORCEMENT AND INCENTIVES

Create incentives to encourage the construction of energy and water efficient certified buildings

Number of new and upgraded certified buildings in the past 3 years that received local incentives

0 for Cen\$ible Energy, the program is too young; approx 3 for Green Building Program

Link to or upload copy of written incentive

CE-5 A-8.zip

Describe the compelling characteristics of the incentive that advance progress towards the desired Outcome(s)

Cen\$ible Energy is a partnership between the Yampa Valley Electric Association, the Yampa Valley Sustainability Council, the City of Steamboat Springs, and Yampatika. They track and report on energy savings through the rebate program. Rebates are available to residential and small business members in Routt, Moffat, Eagle, and Carbon Counties. The program helps customers take sensible and practical steps to help save energy and lower electricity bills. The program currently covers LED lights, energy star appliances, programmable thermostats, energy audits, and air sealing. Since the program was started in April of 2015, it has provided \$3,469 in rebates for 34 households and contributed \$21,610.23 toward the local economy in energy efficiency purchases.

Routt County's Green Building Program was developed in 1995. The program offers certification to residential buildings. Completion and review of the Green Building spreadsheet must be completed and submitted as part of the permit submittal documents. After the spreadsheet is reviewed and verified, the homeowner then can choose whether or not to participate in the Green Building Program. The incentive lies in the fact that certification in the program is free to the homeowner and will likely result in an increased home value.

Date incentive was created or implemented

2015

LOCAL ACTION 9: PROGRAMS AND SERVICES

Create a program to help homeowners and renters upgrade to more energy and water efficient homes

Provide the name and a brief description of the program or service

Cen\$ible Energy-Rebate program for residential members of Yampa Valley Electric Association; Water Efficient Fixture Rebate Program--rebates provided for EPA WaterSmart Toilets, Dishwashers, and Clothes Washers

Number of housing units assisted in the past 3 years

34; 226

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

In three months, Cen\$ible Energy provided \$3,469 in rebates for 34 households, and contributed \$21,610.23 toward the local economy in Energy Efficiency purchases. Cen\$ible Energy began in 2015.

The Water Efficient Fixture Rebate Program helps to increase the number of water efficient fixtures within the community, which in turn reduces water demands and pressure on the waste water treatment plant. This helps to defer expensive expansion of water treatment plants and/or storage facilities. This rebate program began in 2012.

Date program or service was created or implemented

2012

LOCAL ACTION 10: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Renovate local government buildings to improve energy and water use efficiency

Number of buildings renovated in the past 3 years

1

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

In 2014, the City renovated the Depot building, which currently houses the Steamboat Springs Arts Council. The renovation included insulating the foundation and the roof system, which leads to more efficient heating and cooling in the building.

In addition to the project mentioned above, the City used performance contracting to upgrade several buildings in a short period of time, as opposed to doing the work over several years. In 2009, McKinstry was contracted to perform a Technical Energy Audit (TEA) with the intent of developing a performance-contracting project with Steamboat Springs. The final TEA was delivered to the City on November 5th, 2009, an Energy Performance Contract (EPC) totaling \$869,273 was signed in November of 2009, and construction for all work was completed and accepted in February of 2011. The contract includes yearly reports on the findings and recommendations of McKinstry. The projects completed by performance contracting include lighting upgrades, HVAC control optimization, improving the controls and heating sources for storage garage bays and wash bays at Public Works, and using radiant heaters as the primary heat source at several buildings.

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

The Depot insulation installation cost the City \$18,000. The City signed an Energy Performance Contract with McKinstry for \$869,273 in 2009. The contract includes yearly reports on the findings and recommendations of McKinstry.

CE-6: RESOURCE EFFICIENT PUBLIC INFRASTRUCTURE

PRELIMINARY STEP

Provide each selected public infrastructure element and its percentage of overall infrastructure energy consumption

Infrastructure component	Percentage of infrastructure energy use
Wastewater treatment plant	28.4%
Howelsen Ice Arena	16.8%
Street Lights	7.0%

Provide each selected public infrastructure element and its percentage of overall infrastructure water consumption

Infrastructure component	Percentage of infrastructure water consumption
Howelsen Hill Ski Complex	16%
Emerald Park	15%
Howelsen Ice Arena	14%
198 Pine Street Park Irrigation	11.5%

OUTCOME 1: ENERGY EFFICIENCY

Demonstrate incremental progress towards achieving an 80% reduction by 2050 in energy use by selected public infrastructure (Partial credit available)

Is the community on track to achieve an 80% reduction in the energy use by selected public infrastructure by 2050?

yes

OUTCOME 2: WATER EFFICIENCY

Demonstrate incremental progress towards achieving an 80% reduction by 2050 in water use by selected public infrastructure (Partial credit available)

Is the community on track to achieve an 80% reduction in the water use by selected public infrastructure by 2050?

yes

LOCAL ACTION 1: POLICY AND CODE ADJUSTMENT

Develop targeted strategies to improve the resource efficiency of public infrastructure systems

Provide the title of the specific policy or code

2010 Restroom Facilities Design Guidelines and Specifications; 2009 Energy Performance Contracting

Link to or upload copy of the policy or code requirement

CE-6, A-1.zip

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

The 2010 Parks, Open Space, and Recreational Services' Restroom Facilities Design Guidelines and Specifications creates a unified material and fixture standard to reduce the cost of repair and maintenance and to improve resource efficiency. In the General Design Guidelines, it is stated that "all fixtures and accessories need to be water and energy efficient." In the Specific Design Guidelines, it is stated that "all toilets [and urinals] must have low flow flush valves."

In 2009, McKinstry was contracted to perform a Technical Energy Audit (TEA) with the intent of developing a performance-contracting project with Steamboat Springs. The final TEA was delivered to the City on November 5th, 2009, an Energy Performance Contract (EPC) totaling \$869,273 was signed in November of 2009, and construction for all work was completed and accepted in February of 2011. The projects included lighting upgrades, HVAC control optimization, improving the controls and heating sources for storage garage bays and wash bays at Public Works, and using radiant heaters as the primary heat source at several buildings. The McKinstry Report has been attached. Yearly reports are completed.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2010

LOCAL ACTION 3: POLICY AND CODE ADJUSTMENT

Adopt codes or design standards for new public infrastructure that will increase energy and water efficiency

Provide the title of the specific policy or code

Sec. 26-134 of Code of Ordinances; Sec. 26-155 of Code of Ordinances

Link to or upload copy of the policy or code requirement

CE-6, A-3.zip

Describe the compelling characteristics of the policy or regulation that advance progress towards the desired Outcome(s)

The building standards in sec. 26-134 of the Code of Ordinances apply to all new construction, additions, remodels, and repair to all commercial, industrial, multi-family, and mixed-use structures. Standard "g" under (1) Architectural materials and function states that "building design and materials shall address energy conservation through consideration of solar exposure, insulation, and other measures."

The standards addressed in Sec. 26-155 pertain to complete streets. The section promotes multi-modal transportation, thereby reducing dependency on single occupancy vehicles and promoting energy efficiency. The section ensures that "all streets accommodate the following modes of travel: pedestrian, bicycle, transit, and vehicle." All streets shall be designed and constructed as multi-mode facilities.

Was there public engagement during development of the policy or regulation?

yes

Date policy or code adoption was adopted or last major update

2013

LOCAL ACTION 5: PARTNERSHIPS AND COLLABORATION

Engage public works and infrastructure managers in voluntary GHG reporting

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

Steamboat Springs' public works and infrastructure managers do not participate in any type of ongoing, voluntary GHG reporting. However, through a partnership with the University of Colorado Denver, Routt County, and the City of Steamboat Springs and with a "generous donation from Wal-Mart," the Greenhouse Gas Emissions Inventory and Sustainable Energy Benchmarking and Actions 2005 was developed in 2010.

Type of collaboration

Formal partnership

Link to or upload documentation of the partnership or committee's creation or ongoing work

CE-6 A-5_RCGHGInventoryActionsReport_UCDFinalDraft_201303060903012455.pdf

Date established

2010

Describe key accomplishments in the past 3 years

The University of Colorado Denver conducted a GHG inventory for 2005, which was the baseline inventory for community-wide emissions discussed in the GHG Report. This inventory provides measureable data that can be tracked over time. The report suggests updating the inventory/report every three to five years. Routt County is currently working on updating the 2010 plan, and they are contracted to complete that work in 2016.

Briefly describe the local government's financial contribution and/or elected official/staff time dedicated in the past 3 years

Staff members from Routt County's departments of Environmental Health and Facilities and staff members from the City of Steamboat Springs' Facilities department were crucial to gathering the data used in the Report.

LOCAL ACTION 6: PRACTICE IMPROVEMENTS

Develop training programs for infrastructure operators on energy and water efficiency techniques

Describe the practice improvement

The Yampa Valley Sustainability Council (YVSC) has a Green Building Program. Part of the program involves training sessions and workshops for infrastructure operators on green building practices, including energy and water efficiency techniques.

Describe key accomplishments in the past 3 years

YVSC's Green Building Committee is currently working with Routt County on their Energy Policy to help incorporate energy efficiency techniques. As of 2015, YVSC is also a partner with Energy Smart Colorado, the first rural multi-jurisdictional consortium to implement a comprehensive residential energy efficiency program. Energy Smart helps to make energy efficiency improvements simple and affordable. YVSC has also put on many training sessions and workshops over the past three years that target energy and water efficiency techniques. One such workshop was the Green Building Happy Hour Workshop. Local and regional architects, builders, and energy efficiency experts discussed which specific platforms of energy efficient construction work well for residences and commercial buildings in our area. YVSC also hosted the Energy Masters Program with CSU Extension. The program involved three courses that provided a comprehensive overview of energy efficiency and renewable energy in Colorado. Topics discussed included energy sources and policy, climate change, alternative fuels, options for home and commercial energy efficiency, and conducting home energy assessments. Participants in this program were able to earn professional development credit. YVSC's Energy Roundtable Event, which included government and utility directors and officials, hosted talks about statewide energy goals, energy legislation, successful efficiency strategies, energy efficiency programs, and how community-wide energy efficiency leads to economic prosperity.

LOCAL ACTION 7: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Make specific upgrades to infrastructure systems that will increase energy and water efficiency

Number of upgrades in the last 3 years

4

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

Three of the upgrades were raw water irrigation projects. The use of raw water irrigation at parks results in more efficient use of the City's water resources by reducing pressure on drinking water supplies, while dispersing diversion to prevent too much impact to a single stream. In addition, utilizing the raw water from streams has allowed the city to better manage city water rights, including pre-compact water rights.

The last upgrade was an upgrade to our water metering system. We replaced 2,500 water meters and installed an automated metering system (aka smart meters) on residential, commercial and public facilities. These meters report usage to data collection hubs approximately every 20 minutes. This allows for the creation of water usage graphs for every account in the system. Consumers are therefore able to obtain detailed water use data so that smarter water use decisions can be made at the consumer level.

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

\$130,000 was spent on the three raw water irrigation projects. \$2.1 million was spent on the water metering project.

LOCAL ACTION 8: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Increase sub-metering from specific infrastructure systems to collect better information on energy and water use

Number of meters installed in the past 3 years

approx. 2500 by the City's Public Works Department

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

Public Works installed a new automated metering system (aka smart meters) on all commercial, residential, and public water accounts. (All city buildings and facilities have meters). These meters report usage to data collection hubs approximately every 20 minutes. This allows for the creation of water usage graphs for every account in the system. Consumers (including the city) are therefore able to obtain detailed water use data so that smarter water use decisions can be made at the consumer level.

Yampa Valley Electric Association (YVEA) is improving their meter technology by replacing analog meters with digital meters and starting to move all their meters to Advanced Metering Infrastructure (AMI). AMI systems allow near-real-time communication between their offices, meters, and system protection devices on the electrical system, enabling close oversight of system operations and a wider variety of customer program offerings. However, they have no way of knowing if members are choosing to sub-meter.

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

Approximately \$2.1 million has been invested in water metering infrastructure over the past 3 years. YVEA is about to deploy AMI - an \$8 million project over the next 3 years.

CE-7: WASTE MINIMIZATION

OUTCOME 1: TOTAL SOLID WASTE

Demonstrate incremental progress towards achieving a 100% reduction by 2050 in total solid waste generated within in the jurisdiction that is disposed of via landfill, waste-to-energy facility, or incinerator (Partial credit available)

Is the community is on track to achieve zero waste by 2050?

no

Provide the community's most recent annual percent reduction or 5-year average in total solid waste

The facility started taking waste from Moffat County this year so there is not accurate data on waste collection.

Upload a completed Excel worksheet demonstrating reductions in total solid waste

ce-7-wasteminimization-outcome1.xlsx

LOCAL ACTION 1: PLAN DEVELOPMENT

Adopt a waste management plan that identifies the community's greatest sources of waste, sets formal waste reduction targets and establishes actions to help reach the community's waste reduction aims

Provide plan title

Recycling Ordinance

Link to or upload full plan

Ordinance Recycling 2000.pdf

Date plan was officially adopted, endorsed by the local government, or had last major update

2000

If the plan was adopted or updated more than 3 years ago, briefly describe how the plan is still relevant and in use

The City of Steamboat Springs requires refuse collectors to obtain a license, and an ordinance makes it mandatory for all refuse collection companies to offer recycling services at no extra fee, as well as makes it unlawful for the companies to dispose of recyclable materials in the landfill.

Describe the development process and include information on stakeholder involvement and participating agencies, departments, and/or organizations involved

Partners with the City were Yampa Valley Recycles (now Yampa Valley Sustainability Council) and the Colorado Office of Energy Conservation.

Provide vision statement or high-level description of plan goals

An ordinance requiring commercial waste collection businesses to provide certain recycling services.

Describe the key recommendations of the plan

The City requires refuse collectors to obtain a license, and an ordinance requires that all refuse collection companies offer recycling services at no extra fee as well as making it unlawful for refuse collectors to dispose of recyclable materials at the landfill.

Does the plan contain quantifiable targets or metrics for evaluating progress?

no

Describe the strategy for implementing plan recommendations, including responsible parties, level of effort anticipated, and resources dedicated

There hasn't been enforcement of the regulations, however the City is going to begin following up and enforcing the ordinance starting December 2015.

LOCAL ACTION 3: EDUCATION AND OUTREACH

Create a public education campaign or a focused outreach effort to inform residents and businesses of their roles in achieving waste reduction targets

Type of education and outreach effort within the past 3 years – choose 3:

WEBSITE

Provide the appropriate link

<http://www.yvsc.org/programs/yvr/>

PRINT MATERIALS

Provide the following for printed material:

Provide the title and a brief description

Recycling Guide '15 - tells readers where to make donations, where our recycling and compost centers are, how to "keep our valley beautiful," and where to recycle a long list of other items (such as anti-freeze, batteries, paints, plastic bags, etc)

Link to or upload a copy of the printed material

21115336_YVR_RecyclingGuide15-4.pdf

OTHER

Description of education or outreach effort

Yampa Valley Sustainability Council's Sustainable Schools Program - educates students on how to reuse, reduce, and recycle. Specifically - Strawberry Park Elementary's Reduce, Reuse, Recycle Program - includes printed material used to educate students on conserving their school, their community, and their planet. The students are taught that throwing away food is waste and that they should therefore only take what they know they will eat. They are also taught to use recyclable items and what recyclable items are, and are encouraged to use items like water bottles more than once before they recycle them.

Total number of participants

1500 students

LOCAL ACTION 4: PARTNERSHIPS AND COLLABORATION

Develop or participate in a regional coalition that enhances the community's ability to address waste management targets

Provide the name of the partnership or committee AND briefly describe each partner's contribution or criteria for committee selection

The Yampa Valley Sustainability Council has initiated a conversation to develop this type of partnership and other counties are interested. This requires building a Materials Recovery Facility (MRF) at the landfill, which is currently in the planning and permitting process. There is no formal agreement or partnership yet.

Date established

2015

LOCAL ACTION 6: PROGRAMS AND SERVICES

Provide services to enable residents and businesses to recycle and reduce their waste footprint

Provide the name and a brief description of the program or service

Community Recycles Drop-Off Event; Electronics Recycling Drop-Off Event; recycling in public parks and trails; Single stream recycling offered to residents

Tons of materials recycled annually in the past 3 years

- The weight was not reported for certain recyclables (such as skis
- shoes
- bike tires
- wine corks
- etc)
- therefore the totals listed below are incomplete. 2014: 60.8 tons
- 2013: 30.8 tons
- 2012: 33.7 tons. Twin Enviro estimates that since they began accepting single stream recycling in 2015
- they are collecting 13 tons of recycling per week (up from 5 tons per month in 2014).

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

In partnership with the county and local businesses, the Yampa Valley Sustainability Council (YVSC) hosts an annual Community Recycling Dropoff Day. At this event, they collect hard-to-recycle items and collect Household Hazardous Waste (HHW). Since the passing of the electronics recycling bill, YVSC also hosts an annual electronics recycling drop off event.

The City also offers recycling containers at its public parks and trails. There are approximately 75 recycling locations throughout Steamboat Springs. The program allows commuters and recreationalists to dispose of recyclables mid commute.

The three refuse collectors in Steamboat Springs (Twin Enviro, Waste Management, and Aces High) offer curbside, single-stream recycling to residents.

Date program or service was created or implemented

2010

LOCAL ACTION 7: PROGRAMS AND SERVICES

Collaboratively create and run at least 2 targeted recycling programs at key locations throughout the community

Select the type of places that have targeted recycling programs:

Provide the name and a brief description of the program or service

Steamboat Springs Recycling - the City requires curbside recycling to be provide by all waste collection companies. In addition, the city provides recycling in every city facility and sponsors stream specific recycling events throughout the community.

Large event venues

Recycling is provided at the Howelsen Rodeo grounds and at the Howelsen Hill concert venue..

Transit centers

Every transit stop with a shelter also has a recycling container.

Institutions

Steamboat Springs School District Schools

Parks and associated facilities

Every city park has multiple recycling collection containers. Recycling is also offered at regular intervals along the core trail. Recreation facilities - recycling is offered at the Howelsen Ice Arena, Tennis Center, Haymaker Golf Course, Howelsen Hill Ski Area

Other

Community events

Describe the compelling characteristics of the program or service that advances progress towards the desired Outcome(s)

The City requires curbside recycling to be provide by all waste collection companies - these collections take place weekly by one company and every other week by the other company. In addition, the city provides recycling in every city facility, including city hall, centennial hall, the community center, parks and community services building, public works shop, Ice Arena, Tennis Center, Golf Course, Howelsen Hill Ski Area, all parks and playgrounds, all transit shelters, and trailheads. Each of these recycling containers is emptied as a part of regular cleaning schedules for that facility - so typically a minimum of weekly if not more frequently. (public use facilities can be emptied daily as needed by facility staff.) Recycling is also offered in recycling containers placed along the community's main street (in conjunction with Mainstreet Steamboat Springs) and along the core trail. These containers are emptied twice per week. The City partners with the Yampa Valley Sustainability Council to offer zero waste recycling services at events throughout the community including weekly summer farmer's markets, free concerts at Howelsen Hill, sporting events, and others.

Date program or service was created or implemented

2010

LOCAL ACTION 8: PROGRAMS AND SERVICES

Operate at least 2 specific waste management programs for critical waste stream types found in the community, such as: organic waste, hazardous waste, electronic waste, and construction / demolition waste

Provide the name and a brief description of the program or service

Yampa Valley Sustainability Council - Zero Waste Program, Community Recycles Drop-Off Event, Electronics Drop-Off Event; Organic Waste and Construction / Demo waste accepted at Twin Enviro

Number of partnerships or events held in the last 3 years

events from 2012-2014: 109

Describe the compelling characteristics of the program or service that advances progress towards the desired

Outcome(s)

The Zero Waste Program, run by the Yampa Valley Sustainability Council, seeks to make large-scale community and school events waste free and to limit the volume and toxicity of waste and materials at landfills. They collect organic materials from local events and take the waste to an industrial compost facility, where the materials are turned into high grade compost/dirt that is used by most of our local landscapers and garden centers, as well as many businesses and individuals.

During the Community Recycles Drop-off Day and the Electronics Drop-Off Day, hard-to-recycle items are collected, including Household Hazardous Waste (HHW) and electronics.

Twin Enviro accepts organic waste including food and yard waste and turns it into compost. They also accept construction /demo waste such as cabinets, wood, windows which are salvaged and re-sold at the Milner Mall.

The Clean-Out-The-Classroom program is a collaboration between the Yampa Valley Sustainability Council, the Steamboat Springs Arts Council, and other local non-profits that targets schools throughout Steamboat Springs for an annual campaign to collect and reuse gently used school supplies. Approximately 3yd³ of school and art supplies are collected annually.

LOCAL ACTION 9: FACILITY AND INFRASTRUCTURE IMPROVEMENTS

Create a Materials Recovery Facility (MRF) for the community

Amount of material recovered annually in each of the past 3 years

Plans to acquire MRF in 2016

Describe the compelling characteristics of the improvement that advances progress towards the desired Outcome(s)

All of the waste/recycling services truck recycled materials to other towns that have an MRF, however Twin Enviro is planning to buy one in 2016.

Briefly describe funding invested in facility or infrastructure improvement in the past 3 years

No data, as MRF has not been acquired as yet.