

Crested Butte 2030 Climate Action Plan Climate Action Planning Committee Meeting #4

Meeting Room Jr. (first floor), Crested Butte Town Hall 507 Maroon Ave, Crested Butte, CO, 81224

Thursday, July 25
3 – 5 pm

Public Zoom Webinar Link: https://us02web.zoom.us/j/85416637286
CAPC members will receive their own panelist link to join the meetings.

**Please note that these meetings are public and will be recorded. Members of the public are welcome to join and observe. However, public comment will not be taken during these committee meetings. Public comment is accepted at any time via sustainability@crestedbutte-co.gov or at any regularly scheduled Town Council meeting.

Meeting 1 Objectives:

Objective 1: Review updated climate action plan statements & success measures, and updated 2022
GHG emissions inventory
Objective 2: Provide updates and public feedback summary to date on Climate Action Toolbox
Objective 3: Introduce proposed climate alternative strategies & actions

Agenda

3:00pm – 3:30pm: Updates – goal & challenge statements, success measures, & 2022 GHG emissions Inventory

Brendle will present updates to the 2022 GHG emissions inventory. Staff will seek comment on the updated plan statements, success measures, and the climate action toolbox.

Discussion: What are the committee's reactions to the revisions? Are there suggestions for further refining these statements?

3:30 pm - 3:45 pm: Feedback to date

Staff & Brendle Group will provide a summary of the feedback Town has received to date on the climate action toolbox.

Discussion: Does the committee have any thoughts on how the public is reacting to the toolbox? Could staff frame things differently?

3:45 pm – 5:00 pm: Proposed climate alternative strategies & actions with GHG emissions forecasting

Staff will discuss how the climate alternative strategies were developed, and Brendle Group will present the associated actions under those strategies, their GHG emissions reduction potential, and approach to estimating cost impacts.

Discussion: What are the committee's reactions to the framing of the alternatives? Where is the "goldilocks" alternative?





Meeting Resources:

CAPC Meeting #4 Content

□ Objective 1: Review updated climate action plan statements & success measures, and updated 2022 GHG emissions inventory

2022 Emissions Inventory Update

Updates were made to the 2022 Town of Crested Butte Greenhouse Gas Emissions Inventory report to recalculate 2017 emissions using current best practices and allow for better comparison between the two years of available data. Since the previous version shared with the CAPC, electricity and natural gas losses were calculated and included in the 2017 inventory results.

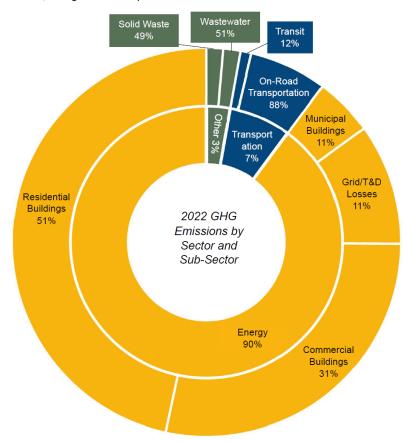
The updated draft Executive Summary is provided on the following pages.





Town of Crested Butte 2022 Greenhouse Gas Emissions Inventory: Executive Summary

In order to inform the Climate Action Plan 2030, the Town of Crested Butte developed a community-wide and municipal greenhouse gas (GHG) emissions inventory. The inventory provides a snapshot of Crested Butte's GHG emissions in 2022, along with a comparison to 2017 data.





23,670 MTCO₂e total community

emissions in 2022



Significant methodology changes from 2017 to

2022



5% increase in calculated community emissions between 2017 and 2022



1,800 MTCo2e total municipal emissions in 2022, 8% of the community total



Building energy sector

electricity and natural gas are the largest source of emissions

¹ 2017 emissions presented in this report have been recalculated and updated from the original version of the 2017 inventory to align with current best practices.





CHANGE IN EMISSIONS: 2017 TO 2022

The key drivers of change in emissions between 2017 and 2022 include:



Increased:

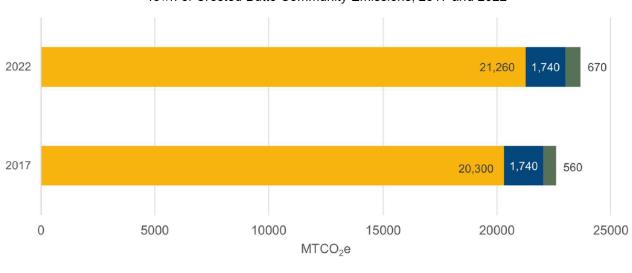
- Natural gas usage
- Vehicle miles traveled
- Solid waste generation



Reduced:

- Electricity use
- Emissions factors (electricity, natural gas, vehicle efficiency)

Town of Crested Butte Community Emissions, 2017 and 2022



■ Energy ■ Transportation ■ Other

Sector 2017 (MTCO₂e) 2022 (MTCO₂e) Change +5% 20,300 Energy 21,260 Commercial Buildings 8,750 6,680 -24% Grid / T&D Losses 1,970 2,390 +21% Included in Commercial Municipal Buildings 1,150 N/A 9,580 +15% Residential Buildings 11,040 **Transportation** 1.740 1,740 0% 1,740 On-Road Transportation -12% 1,530 Transit Not calculated 210 N/A Other 560 670 +20% 240 Solid Waste 330 +38% Wastewater Treatment 320 330 +6% **Total Emissions** 22,600 23,670 +5%





Plan Statements:

On June 3, Staff presented the draft CAP challenge statements and goals to Town Council. The navigation committee also reviewed these statements during the June 5 navigation meeting. Their feedback has been summarized here:

- Challenge statement:
 - Shorten it, needs to be "sharper"
 - Avoid "patting ourselves on the back"
 - o Background context on climate change being a threat is unnecessary
 - o Be concise
- Goal statement:
 - Suggestions to include a piece about resiliency

With this feedback, staff has refined both statements to the following:

7/25 Revised Challenge Statement:

Climate change continues to intensify and impact Crested Butte. The 2022 Crested Butte GHG emissions inventory identifies that 90% of in-boundary community emissions are produced from building energy use, 51% of which are produced by residential buildings' energy use. Addressing emissions from existing buildings continues to be one of the more challenging and complex GHG emissions reduction strategies for Crested Butte, and significantly reducing emissions must be balanced with other declared emergencies and community priorities. As Crested Butte prioritizes its climate mitigation strategies, it will need to live its community values of accountability and boldness by identifying actions that tangibly drive down emissions with opportunities to lead.

7/25 Goal Statement (unchanged from previous):

Crested Butte will act on the urgency of climate change by setting the example of what is possible for mountain communities to take responsibility for our climate impacts and strategically drive down Crested Butte's GHG emissions.

Success Measures

At the June 3 council meeting, staff presented the draft success measures to Council. Their feedback on the success measures focused mainly on the first two success measures: "meaningfully reduces the Town's or community's GHG emissions" and "sets the example of what is possible, shows leadership among mountain communities, or has strong community support". Their feedback is summarized below:





- "Meaningfully reduces the Town's or community's GHG emissions"
 - Simplify the language to be clearer
 - o Remove the "or" to not confuse the issue or create false incentives
- "Sets the example of what is possible, shows leadership among mountain communities, or has strong community support."
 - Consider that bold action does not always have strong community report. Consider how this success measures addresses actions that may not specifically address emissions and whether that should be considered "success" for this climate action plan. The "or's" cause confusion.

Based on this feedback, staff have revised the success measures to the following:

- Meaningfully reduces GHG emissions
- Provides a substantial return on investment
- Sets a bold example among mountain communities
- Is proactive before reactive
- Leverages regional initiatives and partnerships
- Provides significant co-benefits

Staff and Brendle will seek feedback on these revised statements and success measures during the meeting.

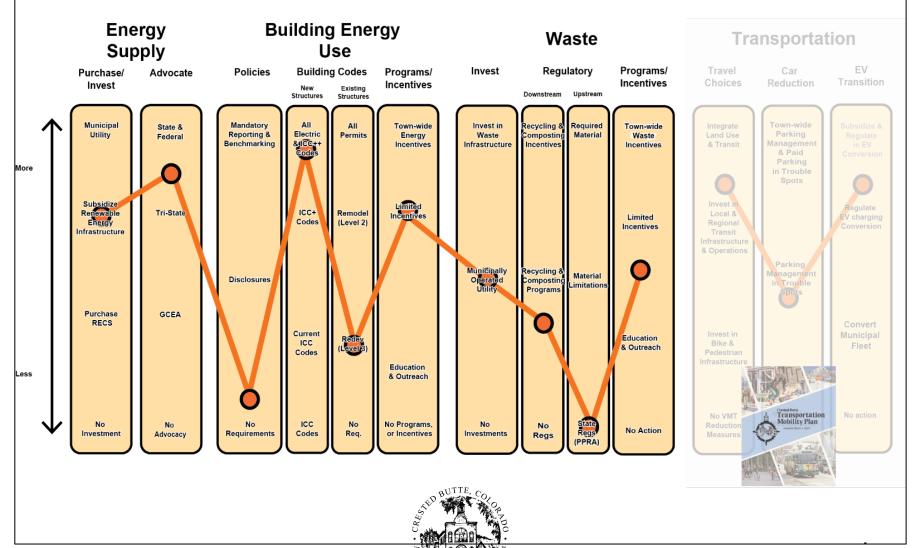
☐ Objective 2: Provide public feedback summary to date on Climate Action Toolbox

At the CAPC meeting on May 16, Staff presented the Climate Action Plan toolbox, which is a framework for identifying tools that the Town has direct control or influence over to affect climate action. The image below is the toolbox presented to the CAPC on 5/16/2024:





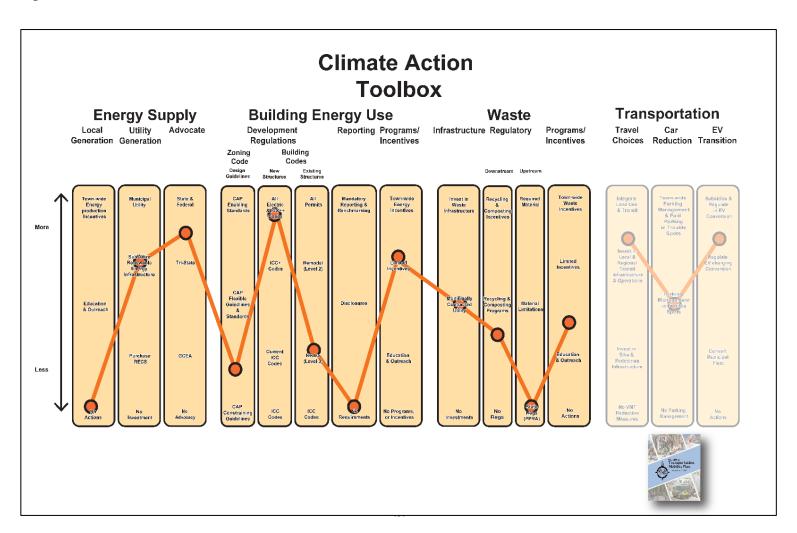
Climate Action Toolbox





Following the navigation meeting, staff revised the toolkit based on comments to include local generation and zoning code tools. See the updated toolbox here:

Figure 5.16.10.2024 Revised CAP Toolbox





Using this toolbox, staff has been able to solicit feedback from the community to understand where there is ambition to increase or decrease action from the Town on climate. Since the May 16 CAPC meeting, the toolbox has been presented/tabled at several meetings and public engagement events, including:

- May 28 Chamber of Commerce Business After Hours
- June 3 Council Meeting
- June 5 Navigation Meeting
- June 24 Alpenglow
- June 28 Western Slope Climate Forum
- July 10 Northeast Block Party
- July 12 Tabling at Post Office

Staff and Brendle have been tracking and summarizing in-person feedback on the toolbox. Brendle Group created the below summary image to indicate how in-person feedback has been trending:





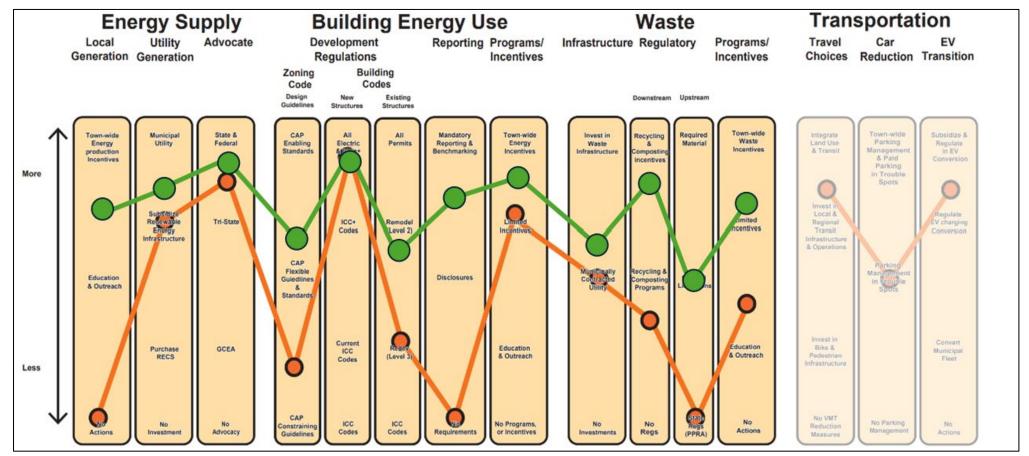


Figure 2. CAP Toolbox feedback summary





Generally, Town is beginning to see a preference from the community to increase or keep the same amount of effort on climate action with in-person feedback. Few in-person responses have been to "dial down" efforts with the 2030 plan. Other comments and suggestions from in-person events include:

- "Utilize RTA/MTN Express for school busses"
- "Smart metering"
- "Incentives to help convert to electric (house)"
- "Allow solar in historic areas"
- "Adjust BOZAR guidelines to allow southern pitched roofs that are solar ready. Do not develop open lands for solar until this is done"
- "Less barrier to entry for compost → no cost, pick up?"
- "More adaptation, fire mitigation"
- "EV Rebates for Locals"
- "It would be amazing if we followed Europe's example: pay for bags you use for your waste disposal (encourage no trash), recycling/green waste less \$"
- "Promote shopping local vs. buying online"
- "Incentives/rebates for efficient windows"
- "We are not Gunnison. Quit trying to make us them"
- "Town should look into adding value to compost with biochar"
- "Water?"

Compass Navigation Survey

The Town has also been soliciting feedback on the Climate Action Plan through the Compass Navigation survey. To date, 90 people have submitted responses, with approximately 83 people submitting responses for the Climate Action portion of the survey. Overall, we're seeing that most survey respondents are wanting to see more climate action in most sectors with significant response margins for "I want to see





more action on this", compared to other responses. The exception is with building energy efficiency and electrification measures in new and existing buildings. Those specific questions' response results are summarized here:

- Q21: "Building code updates to require additional energy efficiency and/or electrification in new buildings"
 - I want to see more action on this: 31.33% (26 respondents)
 - Crested Butte is taking enough action on this: 27.71% (23 respondents)
 - I want to see less action on this: 24.10% (20 respondents)
 - o I feel neutral about this: **8.43%** (7 respondents)
 - o I'm not familiar with this topic: **8.43%** (7 respondents)
- Q22: "Building code updates to require additional energy efficiency and/or electrification in existing buildings"
 - o I want to see more action on this: **19.28%** (16 respondents)
 - Crested Butte is taking enough action on this: 30.12% (25 respondents)
 - o I want to see less action on this: 31.33% (26 respondents)
 - o I feel neutral about this: **10.84%** (9 respondents)
 - o I'm not familiar with this topic: **8.43%** (7 respondents)

See Attachment A for all climate action specific Compass Navigation survey results as of 7/18/2024.

☐ Objective 3: Introduce proposed climate alternative strategies & actions

Based upon community outreach feedback and the 2022 GHG Emissions Inventory, Brendle Group has provided suggested climate actions that the Town could implement to further reduce GHG emissions. These actions are being used to provide GHG emissions reduction potential and cost impact analyses under each sector. Staff envisions these actions in three separate scenarios that showcase the impact of certain strategies:

Alternative Strategy 1: Climate Incentives

This GHG emissions reduction strategy focuses mainly on providing community education, some programming, and providing financial or regulatory incentives to reduce community emissions. The Town will focus on being an example in its municipal GHG emissions reduction actions.

Alternative Strategy 2: Buildings-Focused Climate Action

This strategy concentrates action on our largest emissions source, buildings, and mainly existing buildings. It heavily emphasizes regulatory action and incentivization on new and existing buildings in town limits and sets the stage for Town to be a strong, bold leader in its municipal building electrification and energy efficiency. This strategy keeps current waste actions at the status quo to highlight emissions reduction potential when we focus on only our buildings.

Alternative Strategy 3: Ambitious Climate Acceleration

This third GHG emissions reduction strategy shows the GHG emissions reduction potential should the Town "dial up" and commit to increasing its efforts across all measured community emissions sectors. This





strategy ramps up building efficiency and electrification from alternative 2 and includes significantly more effort from the Town on waste reduction strategies.

During the meeting, Brendle Group will introduce the greenhouse gas emissions modelling approach and an overview of preliminary results for each of these three alternatives. Each alternative represents a group of actions that the Town could pursue as part of the Climate Action Plan. Please view **Attachment B** and **Attachment C** for the summary of community and municipal actions and key GHG emissions modelling inputs.

Brendle Group will also provide an overview of the approach and assumptions for modelling the cost of implementing the action alternatives identified.

Plan Development Refresh & Meeting #3 Recap

The 2030 Climate Action Plan is being developed in 4 phases under the Community Compass framework The below steps and table identify where the CAP and committee stands in this process now:

- 1. Define the challenge and develop a goal statement to address the challenge.
- 2. Commit to a community engagement strategy.
- 3. Identify success measures.
- 4. Create alternatives and filter the solution through success measures.
- 5. Make decisions based on informed consent.

Highlighted texts are updated information

Phase 1 - Understand the challenge and the goal. 2022 GHG Emissions Inventory. (Jan – Mar 2024)	Phase 2 - Finalizing this phase Identify success measures. (Apr – May 2024)	Phase 3 – Current Phase Develop alternatives (June – July 2024)	Phase 4 Drafting the Plan. (July – December 2024)
Community Engagement: CAP Launch Webinar (Jan 18) – an intro webinar for the community to launch the 2030 CAP planning process and likely goals of the plan.	CAPC Meeting #2 (Thursday, Apr 25, 3-5pm): Provide 2022 GHG Inventory overview, firm up challenge and goal statements, & define success measures.	Quarterly Navigation Committee Meeting #2 (Wed, Jun 5, 9am-12pm): Navigation committee meeting, emphasis on CAP alternatives	CAPC Meeting #5 (Thursday, Sep 5, 3- 5pm): Review Draft CAP (ahead of public comment) Quarterly Navigation Committee Meeting #3 (Wed, Sep 11, 9am-
Town Council Work Session (Monday, February 5): Joint work session with Town Council and BOZAR to provide	CAPC Meeting #3: (Thursday, May 16, 3-5pm): Firm up success measures, alternatives discussion	Community Engagement: Climate Summit (June 28)	12pm): Navigation committee meeting, emphasis on Community Plan (TBD)





overview of the CAP and Navigation process.

CAPC Meeting #1 (Thursday, Feb 25 3-5pm): Define the challenge and goal statement

Quarterly Navigation Committee Meeting #3 (Wed, Mar 27, 9am-12pm):

Data Analysis: 2022 GHG Emissions Inventory by consultant team and staff Town Council Work Session (Monday, June 17: Joint work session with Town Council and BOZAR: Navigation

BOZAR: Navigation progress and CAP success measures and alternatives

CAPC Meeting #4 (Thursday, Jul 25, 3-5pm): Refine alternatives with GHG modeling Community
Engagement:
Climate Poetry Slam
(Sep 26, 6-8 PM)

Public Comment Period
Draft CAP will go to out
for a 30-day public
comment period

CAPC Meeting #6 (Thursday, Nov 14, 3-5pm): Public comment review and refine draft plan

Quarterly Navigation Committee Meeting #4 (Date& Topic TBD)

CAPC Meeting #3 Summary:

The CAPC met on May 16 to work on the following objectives. Notes are included from the discussion below:

Objective 1: Firm up success measures

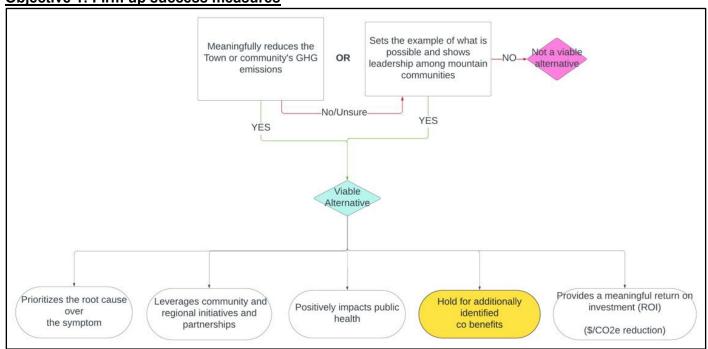






Figure 3. CAPC Meeting #3 Success Measures

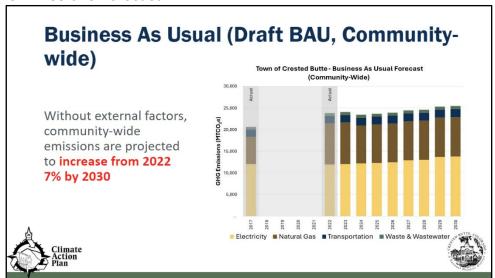
Success measures are the list of criteria the CAP uses to both identify success and prioritize proposed climate actions. Staff sought feedback on the above success measures. A summary of feedback is provided below:

- How is "meaningful" sufficiently measurable?
- ROI feels like an afterthought on the end
- Placing the \$/CO2e reduction in the second tier allows for prioritization based on other "values"/success measures
- A suggestion to remove public health and create a success measure that more generally represents co-benefits

Objective 2: Provide 2030 GHG Emissions Forecast

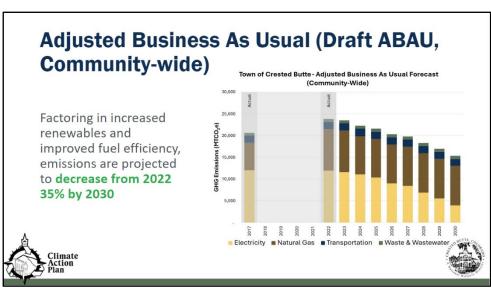
Brendle Group presented a 2030 GHG emissions forecast which demonstrates how emissions are projected to change within the community and the Town over time under different emissions scenarios. Brendle projected two scenario types: Business as Usual (BAU) and Adjusted Business as Usual (ABAU). These forecasts account for current Town policy and programs, however, BAU scenarios do not include Tri-State's projected reduced carbon intensity targets or assumed improvements in vehicle fuel efficiencies to 2030. ABAU considers these factors. Overall, community emissions are expected to reduce by 30% from 2022 levels with Tri-State's commitment to 80% renewable energy by 2030 and assumed improvements in vehicle efficiency. Town emissions are forecasted to reduce by 17%.

Community GHG Emissions Forecast

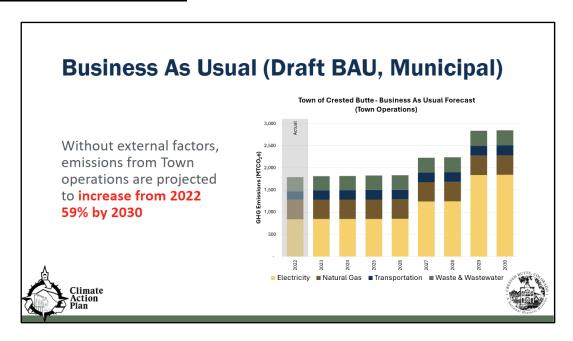






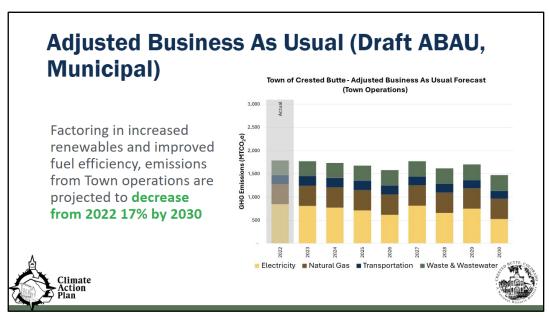


Municipal GHG Emissions Forecast









<u>Objective 3: Develop Alternatives: Introduce Climate Action Policy Toolbox (intro to alternatives</u> development)

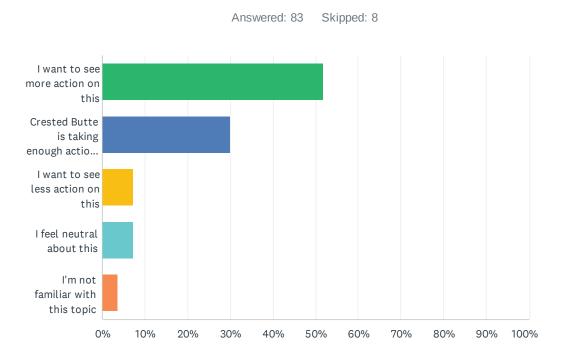
See above in section "Objective 2: Provide public feedback summary to date on Climate Action Toolbox" for a recap of the climate action policy toolbox and new feedback we have received to date on the toolbox.



Attachment A:

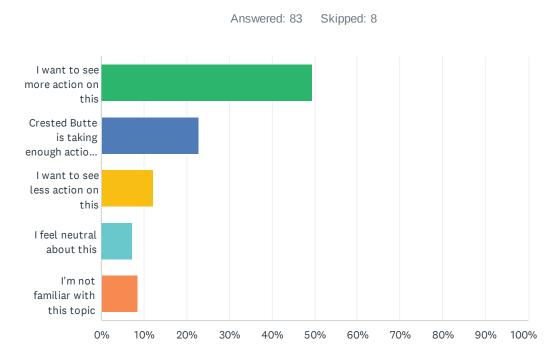
Compass Navigation Survey Results: Climate Action Plan Section

Q19 Invest in renewable energy projects within Town boundaries (such as property owner incentives, provide land, facilitate development, and/or financially support projects)



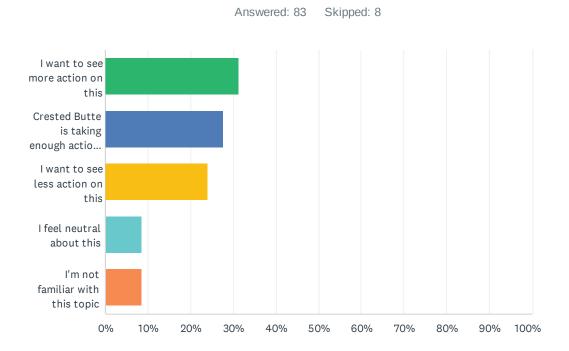
ANSWER CHOICES	RESPONSES	
I want to see more action on this	51.81%	43
Crested Butte is taking enough action on this	30.12%	25
I want to see less action on this	7.23%	6
I feel neutral about this	7.23%	6
I'm not familiar with this topic	3.61%	3
TOTAL		83

Q20 Advocate for utility-scale renewable energy transition (most likely outside Town boundaries, such as lobbying at the state or federal level for more renewable energy)



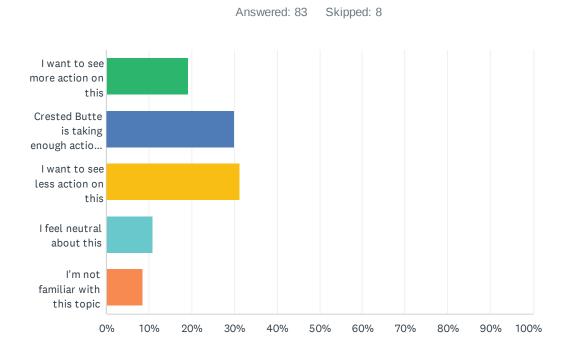
ANSWER CHOICES	RESPONSES	
I want to see more action on this	49.40%	41
Crested Butte is taking enough action on this	22.89%	19
I want to see less action on this	12.05%	10
I feel neutral about this	7.23%	6
I'm not familiar with this topic	8.43%	7
TOTAL		83

Q21 Building code updates to require additional energy efficiency and/or electrification in new buildings



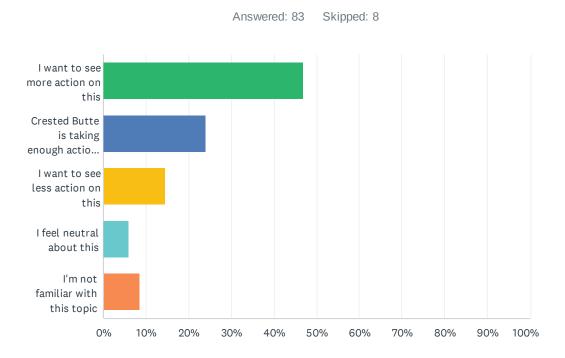
ANSWER CHOICES	RESPONSES	
I want to see more action on this	31.33%	26
Crested Butte is taking enough action on this	27.71%	23
I want to see less action on this	24.10%	20
I feel neutral about this	8.43%	7
I'm not familiar with this topic	8.43%	7
TOTAL		83

Q22 Building code updates to require additional energy efficiency and/or electrification in existing buildings



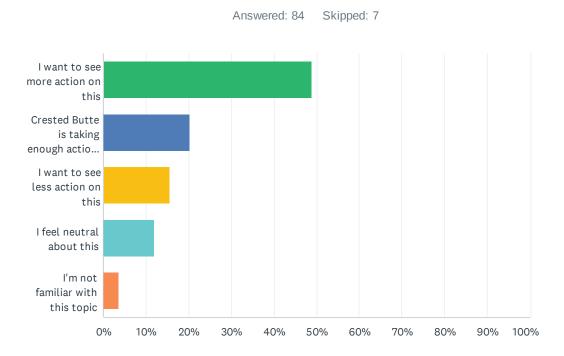
ANSWER CHOICES	RESPONSES	
I want to see more action on this	19.28%	16
Crested Butte is taking enough action on this	30.12%	25
I want to see less action on this	31.33%	26
I feel neutral about this	10.84%	9
I'm not familiar with this topic	8.43%	7
TOTAL		83

Q23 Building energy policies to incentivize energy efficiency (such as property owner incentives, building energy use disclosure, or building energy benchmarking)



ANSWER CHOICES	RESPONSES	
I want to see more action on this	46.99%	39
Crested Butte is taking enough action on this	24.10%	20
I want to see less action on this	14.46%	12
I feel neutral about this	6.02%	5
I'm not familiar with this topic	8.43%	7
TOTAL		83

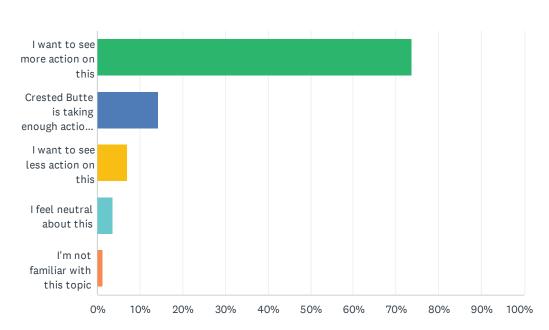
Q24 Town led building energy programs and rebates to incentivize energy efficiency (such as the GreenDeed program or electric conversion pilot projects or rebates)



ANSWER CHOICES	RESPONSES	
I want to see more action on this	48.81%	41
Crested Butte is taking enough action on this	20.24%	17
I want to see less action on this	15.48%	13
I feel neutral about this	11.90%	10
I'm not familiar with this topic	3.57%	3
TOTAL		84

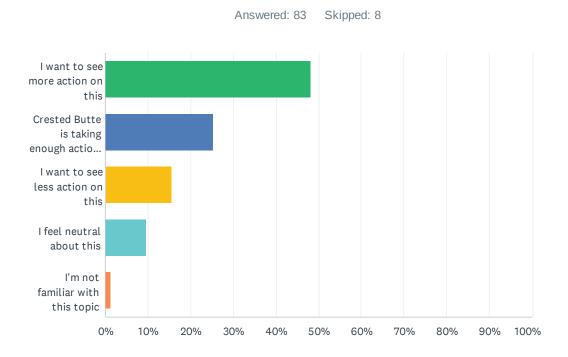
Q25 Investment in waste infrastructure (such as compost or recycling facilities)





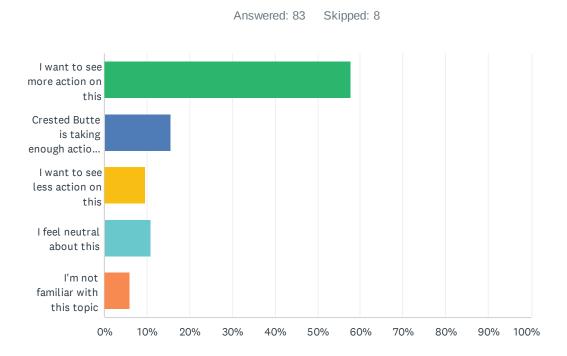
ANSWER CHOICES	RESPONSES	
I want to see more action on this	73.81%	62
Crested Butte is taking enough action on this	14.29%	12
I want to see less action on this	7.14%	6
I feel neutral about this	3.57%	3
I'm not familiar with this topic	1.19%	1
TOTAL		84

Q26 Waste policies that require or ban certain materials (such as not allowing single-use-plastic take-out containers)



ANSWER CHOICES	RESPONSES	
I want to see more action on this	48.19%	40
Crested Butte is taking enough action on this	25.30%	21
I want to see less action on this	15.66%	13
I feel neutral about this	9.64%	8
I'm not familiar with this topic	1.20%	1
TOTAL		83

Q27 Waste programs to encourage composting or recycling (such as a "Pay as You Throw" program, organizing hazardous waste drop offs, or educating about waste-free opportunities)



ANSWER CHOICES	RESPONSES	
I want to see more action on this	57.83%	48
Crested Butte is taking enough action on this	15.66%	13
I want to see less action on this	9.64%	8
I feel neutral about this	10.84%	9
I'm not familiar with this topic	6.02%	5
TOTAL		83

Q28 Are there other tools or actions you would like to see identified in the Climate Action Plan? (Optional/Open-Ended)

Answered: 30 Skipped: 61

#	RESPONSES	DATE
1	A recycling center! It is so challenging to take our recycling to Gunnison every week.	7/18/2024 10:08 AM
2	Before undeveloped land is used for things such solar panels and wind turbines, solar panels should be built on top of all non-residential buildings (and should be highly incentivized for residential buildings as well). All those empty roofs from Clarks to the School to the Center for the Arts to the ice arena to the alpine lumber company to the Old town in to etc, etc could help to power the town with solar panels. I wish other cities that have less snow on their roofs (I'm thinking Denver and Phoenix) would also follow suit. When you fly in an airplane, the amount of roof space available over a city is incredible, yet their building solar farms in formally natural open space. I hope CB can be a model for that. I think all tourists visiting should pay a mandatory visiting carbon tax that goes towards becoming greener. And this carbon tax would be determined based on mode of transportation to CB and distance travelled.	7/14/2024 1:35 PM
3	Need styrofoam recycling too. I see a lot of tailpipe emissions from trucks & understand there is no state annual vehicle inspection program. Have CB & Gunnison County studied & determined the source of the highest carbon emissions? And what about cattle & methane emissions? Need to focus on reducing carbon emissions in addition to renewable energy & energy conservation in buildings.	7/11/2024 7:31 AM
4	CB is too small to have a meaningful impact on climate. Allow the market to lead the energy transition. Do not impose excessive energy costs on locals that are not "worth it" from a global perspective.	7/10/2024 11:58 AM
5	Electrifying everything is NOT the solution! The mining and bad practices that go into batteries that cannot be recycled. The electrical grids that are NOT capable of handling more and more use and we are in a warming climate that will stress the grids more all the time. just look at warmer states that constantly loose power in heat waives balance not mandate and require!	7/10/2024 9:44 AM
6	Way bigger local problems to address before we waste time and money on this. We don't have the money! Stop the spending!	7/10/2024 7:43 AM
7	A variety of incentives is important. Bring in Builders, electrician's, plumbers, solar contractors into discussions. There is a lot to be learned from them.	7/9/2024 5:07 PM
8	Limiting natural gas In Town is not energy efficient or green, why is this happening	7/7/2024 7:24 PM
9	I AM SICK AND TIRED OF THE GREEN TAKEOVER OF THIS TOWN AND THE IMPACTS IT HAS HAD ON THE COST OF BUILDING	7/5/2024 9:11 AM
10	Compost pick up	7/3/2024 10:44 AM
11	Please consider that mandating electrification here currently means burning fossil fuels elsewhere. Reduce S,W and G bills for those who produce less sewage and garbage and consume less water.	7/1/2024 11:15 PM
12	People who are building multi-million dollar homes should be held to a strict code of energy efficiency. Billionaires tearing up old businesses should be held to a strict code of energy efficiency. Struggling small business should not be required to upgrade their electric or be forced to use certain take out containers. Business that are not struggling and charge \$30 for a flaming margarita that set a child's face on fire - now I am fine with them having to use more expensive non-plastic take out containers.	7/1/2024 2:00 PM
13	More toxic waste recycle/donation days.	6/29/2024 5:42 PM
14	Create a dedicated county wide revenue stream to retrofit existing buildings to be as energy efficient as possible or install renewable energy systems to offset the carbon footprint of these	6/28/2024 1:09 PM

Crested Butte Compass Navigation Survey

	old ineffecient buildings. This is a county wide issue not just a Crested Butte issue. Work with all entities in the county to create one path forward with shared resources.	
15	Incentives and disincentives don't affect wealthy second homeowners. Only the lower income residents. Make a rule or don't and make the punishment felt equally .	6/28/2024 1:02 PM
16	Be careful. We are putting too much in regulation and policy to manage and be cost effective.	6/28/2024 9:40 AM
17	We should not place as much emphasis on electrification. Let's work to make a balance between electricity and natural gas. What happen when the electricity goes out and town has outlawed all gas furnaces and wood stoves?	6/25/2024 11:35 PM
18	Is there any scientific justification to outlawing natural gas. Switching to electric will generate more natural gas and coal consumption to produce the electricity. Seems we're simply transferring the solution burden to power plants which have no plans to replacement solutions for power generation achievable in the foreseeable future.	6/24/2024 10:01 AM
19	I loved Mark Reaman's 6/20/24 editorial idea about incentivizing ebikes for people living outside of town.	6/22/2024 5:14 PM
20	don't put cart before the horse	6/18/2024 4:06 PM
21	These are very technical questions. I'm curious how many people are informed about this enough to provide substantive feedback.	6/18/2024 3:42 PM
22	The Climate Action Plan is a false idol. Citizen safety and affordability should be prioritized ahead of progressive climate action. Plow the streets when it snows. Widen the snowbanks back to property lines in between storms (so people can more safely park and travel on the streets god forbid). Pull snowpack from the streets before it melts and becomes impassable. Plow all the parking lots in town every storm i.e. Nordic Center. Plow snowbanks on Elk Ave for public safety. Public services and safety in the winter at 9000 feet requires the consumption of fossil fuels. It appears that there are more staff doing less work in the winter because of the CAP. Support reliable natural gas service for your citizens instead of shaming the leading form of affordable (and clean-ish) energy for the past several decades. Electricity is not magic and a majority still comes from coal. Building electrification is new technology and out of reach for most. The ultra rich are the only ones that can afford to be ultra green. Is that the goal of the CAP? Climate aggressive (vs. climate practical) building codes make housing less affordable and costs tax payers millions and will result in fewer affordable units, not more.	6/18/2024 2:31 PM
23	Rebates or tax waivers for energy improvements. Windows, insulation., heatpumps.	6/14/2024 5:14 PM
24	The town should not be extending water and sewer anywhere unless the buildings to be served meet the maximum insulation factors. Free market and deed restricted and public.	6/12/2024 3:02 PM
25	The "greenest" home and materials are the ones that are already there. Requiring updates to existing structures leads to additional, unnecessary waste as well as untended consequences. Forcing everyone to electrification will cause a spike in electrical use (duh) but also lead to a more fragile system as everyone is solely dependent on the electrical utility provider and their system and infrastructure (unintended consequences). It also leads to a monopolistic structure where the electrical provider has more leverage/power given the dependency. The best solution is a diversified one. "Everything in moderation."	6/11/2024 12:56 PM
26	Credits and rebates for use or construction of renewable power vs. expanding natural gas lines. Start developing EV charging stations. More municipal solar development	6/8/2024 5:57 PM
27	Be very careful about policy for electric only, banning gas. It's too costly and inefficient and will further the economic challenges in CB.	6/7/2024 3:59 PM
28	I know that locals don't love Ski CB but they do have a program to have a commitment to zero and I wonder if they could team up on this.	6/7/2024 2:38 PM
29	Allow the home owner to make the decision to improve the energy efficiency within their property. Again, the biggest aggregator of our climate issue is not the consumer. It is the producer. It is the corporation that will produce more revenue and more carbon emission than any single person. The local townsfolk are not the issue.	6/7/2024 1:38 PM
30	The Town is way off base on this one. Allow Gas in new construction as it's actually better for the planet, more efficient and more affordable. Stop buying and pushing electric vehicles as	6/6/2024 11:42 AM

Crested Butte Compass Navigation Survey

they are far worse for the planet. The town should eliminate the Climate Action Plan as it's all based on propaganda and not facts.

Attachment B:

Alternative Strategies & Proposed Climate Actions

Proposed Climate Actions Summary Table

	COMMUNITY				
Climate Action Tool	Alternative Strategy 1:	Alternative Strategy 2:	Alternative Strategy 3:		
Climate Action Tool	Climate Incentives	Buildings-Focused Climate Action	Ambitious Climate Acceleration		
		Energy Supply			
Local Generation	Provide educational resources and incentives (e.g., group buy or permit discounts) to	Provide educational resources and incentives (e.g., group buy or permit discounts) to increase	Require local generation (or fee in lieu?) for new construction		
Local Generation	increase voluntary adoption	voluntary adoption	Require local generation (or fee in fled:) for flew construction		
Utility Generation	Encourage partnerships for increased RE generation	Encourage partnerships for increased RE generation	Encourage partnerships for increased RE generation		
Advocacy	Advocate for increased local and utility generation	Advocate for increased local and utility generation	Advocate for increased local and utility generation		
		Building Energy Use			
Zoning Code:	More flexible design guidelines	More flexible design guidelines	More flexible design guidelines		
Building Code (New):	No change	Electrification of commercial equipment	Electrification of commercial equipment		
	Level 3 remodel electrification requirements if disturbing area, incentivize & educate	Level 3 remodels electrification requirement if disturbing area, all permit types required to do	Level 3 remodels electrification requirement if disturbing area, all permit types		
Building Code (Existing)	level 1 & 2 remodels	an energy assessment, efficiency upgrades/electrification requirements tied to business	required to do an energy assessment & implement some measure, efficiency		
		licensing.	upgrades/electrification requirements tied to business licensing.		
Reporting	Encourage voluntary/individual tracking and benchmarking (collaborate with utility on	Require energy disclosures (and possibly benchmarking)	Require energy disclosures (and possibly benchmarking)		
	platform) (with eventual requirement?)	1 0, 1 , 0,	, , , , , , , , , , , , , , , , , , ,		
Programs/Incentives	Property owner incentives for energy efficiency and electrification for limited	Town-funded energy efficiency and electrification incentives for all residents and businesses	Town-funded energy efficiency and electrification incentives for all residents and		
<u> </u>	households and business types		businesses		
Waste					
Waste Infrastructure:	Encourage/incentivize reuse/repair cafes, lending libraries, etc.	Encourage/incentivize reuse/repair cafes, lending libraries, etc.	Require adequate space for trash/recycling/eventual compost in new development		
Wasta Dawnstroom	No change	No change	Day as you throw ardinance require law to zero waste events on Town property		
Waste Downstream	No change	No change	Pay as you throw ordinance, require low to zero waste events on Town property Require sustainable materials or ban on certain materials, construction & demolition		
Waste Upstream	Follow state regulations (PPRA), incentivize sustainable materials	Follow state regulations (PPRA), incentivize sustainable materials	recycling requirements		
Waste Programs/Incentives:	Provide incentives and/or seed funding to catalyze waste program benefits	Provide incentives and/or seed funding to catalyze waste program benefits	Town-funded waste incentives for all residents and businesses		
waste Programs/incentives.	Provide incentives and/or seed funding to catalyze waste program benefits	Transportation	Town-runded waste incentives for an residents and pusinesses		
Parking management	Strategically manage parking availability and update parking ratios	Strategically manage parking availability and update parking ratios	Strategically manage parking availability and update parking ratios		
Reduce head in parking	Organize parking and move towards reducing head-in parking on Town streets.	Organize parking and move towards reducing head-in parking on Town streets.	Organize parking and move towards reducing head-in parking on Town streets.		
	Incentivize EV charging at origin locations (vacation rentals, hotels, multifamily) and	Incentivize EV charging at origin locations (vacation rentals, hotels, multifamily) and provide	Incentivize EV charging at origin locations (vacation rentals, hotels, multifamily) and		
EV Charging Infrastructure	provide space for future EV chargers	space for future EV chargers	provide space for future EV chargers		
Public transit	Encourages transit partners to improve service & electrify	Encourages transit partners to improve service & electrify	Encourages transit partners to improve service & electrify		
Transit-share programs	Encourage transit partners to facilitate an electric car or electric bike share program	Encourage transit partners to facilitate an electric car or electric bike share program	Encourage transit partners to facilitate an electric car or electric bike share program		
		TOWN			
Oliverto Antique Total	Alternative Strategy 1:	Alternative Strategy 2:	Alternative Strategy 3:		
Climate Action Tool	Climate Incentives	Buildings-Focused Climate Action	Ambitious Climate Acceleration		
Energy Supply					
Local Generation	Consider RE on town buildings	Consider RE on town buildings per maintenance schedule	Facilities Energy Efficiency/Renewable Energy Plan		
Utility Generation	Facilitate partnerships	Facilitate partnerships	Facilities Energy Efficiency/Renewable Energy Plan		
Advocacy:	Participate with CC4CA	Participate with CC4CA	Engages directly with PUC		
Building Energy Use					
Zoning Code:	NA	NA	Facilities Energy Efficiency/Renewable Energy Plan		
Building Code (New):	Electrify new facilities (per code)	Electrify new facilities (per code)	Facilities Energy Efficiency/Renewable Energy Plan		
Building Code (Existing)	Evaluate efficiency upgrades/electrification for remodels/renovations	Evaluate efficiency upgrades/electrification for remodels/renovations	Facilities Energy Efficiency/Renewable Energy Plan		
Reporting	Provide utilize use benchmarking for buildings (upon a trigger?)	Provide utility use reporting for buildings (upon a trigger?)	Town provides energy use disclosure		
Programs/Incentives	NA	NA	NA		
	Waste				
Waste Infrastructure:	Improve employee programs (town bikes, gear lending, etc)	Improve employee programs (town bikes, gear lending, etc)	Improve employee programs (town bikes, gear lending, etc)		
Waste Downstream	Requirement to participate in composting for town events whenever possible	Internal composting for town facilities	Internal composting for town facilities		
Waste Upstream	Town enacts Environmental Purchasing Policy	Town enacts Environmental Purchasing Policy	Town enacts Environmental Purchasing Policy		
Waste Programs/Incentives:	Waste Programs/Incentives: Town has internal waste reduction incentives for employees Town has internal waste reduction incentives for employees				
Transportation					
Parking management	Evaluate free parking at Town facilities	Evaluate free parking at Town facilities	Evaluate free parking at Town facilities		
Reduce head in parking	Restructure parking at town facilitites	Restructure parking at town facilitites	Restructure parking at town facilitites		
EV Charging Infrastructure	Evaluate EV charging needs at Town facilities	Evaluate EV charging needs at Town facilities	Evaluate EV charging needs at Town facilities		
Public transit	Employee benefit program for transit/not using cars	Employee benefit program for transit/not using cars	Employee benefit program for transit/not using cars		
Transit-share programs	Employee benefit program for transit/not using cars	Employee benefit program for transit/not using cars	Employee benefit program for transit/not using cars		

Attachment C:

Key GHG Emissions inputs for GHG Emissions Reduction Potentials

Town of Crested Butte - GHG Analysis Key Inputs Summary as of 7/17/2024

Key Inputs are subject to change as feedback, new data or assumptions become available to refine the analysis. Actions are to be analyzed against 3 Alternatives proposed by Town of Crested Butte.

1. Energy Supply

1.1. Local Generation

Community Action: Existing Buildings Renewable Energy

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

All permits (excluding new construction) - commercial

All permits (excluding new construction) - residential

Percent of permits including solar installation - commercial

Percent of permits including solar installation - residential

Average solar system size - commercial (kWdc)

Average solar system size - residential (kWdc)

Purchased or other utility scale - Green Power Program (% incr)

Community Action: New Construction Renewable Energy

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

New construction, all permits - commercial

New construction, all permits - residential

Percent of permits including solar installation

Average solar system size - commercial (kWdc)

Average solar system size - residential (kWdc)

Municipal Action: Renewable Energy

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Percent of facility energy use provided by on-site generation

Purchased or other utility scale - Green Power Program (% of facility energy use)

1.2. Utility Generation

Community Action: Encourage partnerships for increased renewable energy generation

Analyzed for GHG impact based on key inputs. Representative of a result of advocacy and an increase or removal of the generation potential cap from renewable energy via TriState

Key Inputs

Target Start Year

Target End Year

Grid supplied RE% increase above utility forecasted value

Municipal Action: Facilitate partnerships for increased renewable energy generation

Analyzed for GHG impact based on key inputs. Specific to municipal energy use

Key Inputs

Target Start Year

Target End Year

Grid supplied RE% increase above utility forecasted value

1.3. Advocacy

Community Action: Advocate for increased local and utility generation

Enabling action. Impact is captured within Local Generation and Utility Generation assumptions.

Municipal Action: Participate with Colorado Communities for Climate Action (CC4CA)

Enabling action. Impact is captured within Local Generation and Utility Generation assumptions.

2. Building Energy Use

2.1. Zoning Code

Community Action: More Flexible Design Guidelines

Enabling action. Impact is accounted for within New Construction Building Code and Existing Building Redesign Building Code.

Municipal Action: Electrify new facilities (per code)

Impact is accounted for within the ABAU Forecast

2.2. New Construction Building Code

Community Action: Electrification of Commercial Kitchen Equipment

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Average number of new construction permits for commercial

Percent of NC Commercial permits for cooking

Percent of permits for all-electric cooking

Municipal Action: Electrify new facilities (per code)

Impact is accounted for within the ABAU Forecast

2.3. Existing Building Redesign Building Code

Community Action (Residential): Incentivize or require building/energy code compliance for redevelopment/remodels

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Average number of Residential remodel permits annually

Percent of permits that are Level 3 remodel/redevelopment annually

Percent of permits that are Level 2 remodel/redevelopment annually

Percent of permits that are Level 1 remodel/redevelopment annually

Target Residential HERS score

Percent of Level 3 permits all-electric

Percent of Level 2 permits all-electric

Percent of Level 1 permits all-electric

Community Action (Commercial): Incentivize or require building/energy code compliance for redevelopment/remodels

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Average number of Commercial remodel permits annually

Average number of Level 3 remodel/redevelopment permits annually

Average number of Level 2 remodel/redevelopment permits annually

Average number of Level 1 remodel/redevelopment permits annually

Target Commercial EUI

Percent of Level 3 permits all-electric

Percent of Level 2 permits all-electric

Percent of Level 1 permits all-electric

Municipal Action: Evaluate efficiency & electrification upgrades for remodels/renovations

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Number of Town buildings upgraded annually

Percent of Town upgrades including building electrification

2.4. Reporting

Community Action: Energy Benchmarking

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Percent of residential community benchmarking

Percent of commercial community benchmarking

Percent energy savings by benchmarking from baseline

Municipal Action: Energy Benchmarking

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Percent of Town facilities benchmarking

Percent energy savings by benchmarking from baseline

2.5. Programs & Incentives

Community Action: Town-funded energy efficiency and electrification incentives for all residents and businesses

Analyzed for GHG impact based on key inputs

Key Inputs

Target Start Year

Target End Year

Percent adoption of Residential Energy Audits annually

Percent adoption of Commercial Energy Audits annually

Percent of Residential audits resulting in energy efficiency upgrades

Percent of Commercial audits resulting in energy efficiency upgrades

Percent of energy efficiency upgrades that electrify buildings

Municipal Action: Programs & Incentives

Action unknown - TBD on analysis

Waste

3.1. Waste Infrastructure

Community Action: Encourage/incentivize reuse/repair cafes, lending libraries, etc.; Require adequate space for trash/recycling/composting in new development Impact is accounted for within other waste strategy

Municipal Action: Improve employee programs (town bikes, gear lending, etc.)

Municipal waste data is unavailable, and combined as part of the community waste totals. Impact is accounted for within other waste strategy.

3.2. Waste Upstream

Community Action: Waste Upstream

Impact is accounted for within other waste strategy

Municipal Action: Town Environmental Purchasing Program (EPP)

Municipal waste data is unavailable, and combined as part of the community waste totals. Impact is accounted for within ABAU.

3.3. Waste Downstream

Community Action: Waste Downstream

Analyzed for GHG impact based on key inputs. This action combines the impact of multiple waste actions taken.

Key Inputs

Target Start Year

Target End Year

Waste to Landfill (Diversion rate increase (%))

Municipal Action: Waste Downstream

Municipal waste data is unavailable, and combined as part of the community waste totals. Impact is accounted for within ABAU.

3.4. Waste Programs / Incentives

Community Action: Programs & Incentives

Impact is accounted for within other waste strategy

Municipal Action: Internal waste reduction incentives for employees

Municipal waste data is unavailable, and combined as part of the community waste totals. Impact is accounted for within ABAU.