

CITY COUNCIL ACTION FORM

Department	Presented by	Date
Administration	Drew Nelson - City Administrator	July 20, 2021

<u>ITEM</u>

Resolution 2021-27 – A Resolution by the City Council of the City of Salida, Colorado, Adopting a Climate Action Plan

BACKGROUND

For the past eighteen months, an ad-hoc committee of interested citizens has been meeting as the Sustainability Committee to generate ideas and plans regarding the City of Salida's response to climate change. During that time, those attending the Committee meetings have continually expressed interest in creating a Climate Action Plan to sketch out steps needed to be taken in order to reduce/eliminate greenhouse gas (GHG) emissions and carbon pollution.

The attached plan is the culmination of months of work by subject-matter experts and interested community members in five critical areas:

- Waste and Landfill
- Vehicles and Transportation
- Energy Supply

- Residential Energy
- Commercial Energy

Within each of these sections are underlying objectives and actions that the City and its partners should undertake in order to further reduce GHG emissions, with the goal of reducing (and eventually eliminating) polluting emissions on timelines set by the State of Colorado. Actions include working with stakeholders such as the Governor's Energy Office, Energy Smart Colorado, GARNA, local businesses, and other governmental agencies to collaborate on solutions both within Salida's city limits as well as in our region, state, and country.

FISCAL NOTE

No immediate fiscal impact; however, certain actions called for in the plan will consume financial resources in the future.



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STAFF RECOMMENDATION

Staff recommends that the City Council adopt the Climate Action Plan for the City of Salida.

SUGGESTED MOTION

A City Councilperson should state, "I move to approve Resolution 2021-27", followed by a second and a roll call vote.

CITY OF SALIDA, COLORADO RESOLUTION NO. 27 (Series of 2021)

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF SALIDA, COLORADO, ADOPTING A CLIMATE ACTION PLAN FOR THE CITY OF SALIDA

WHEREAS, the Salida City Council recognizes the importance of promoting the public health and safety of residents and visitors, including their access to clean air, clean water, and a livable environment; and

WHEREAS, there is scientific consensus worldwide that climate change is happening and that human activity, primarily the combustion of fossil fuels, is responsible for the current global warming trend, causing increased frequency of extreme weather events, drought, heat waves, shifts in agricultural productivity, and negative human health impacts; and

WHEREAS, average temperatures in Colorado have already increased two degrees Fahrenheit in the past 30 years, shortening the winter season, with future impacts predicted regarding decreased water availability, increased incidence of wildfire, increased range for bark beetles, less suitable habitat for wildlife, and negative human health impacts from increased heat and air pollution; and

WHEREAS, acting on climate change results in co-benefits such as reduced dependence on foreign fuels, reduced traffic congestion, healthier environments, and stable economies; and

WHEREAS, the City of Salida's economy is based on its popularity as a lifestyle destination with attractions to our rivers and mountains, and the City of Salida has an opportunity to participate in local and state-level initiatives, demonstrating leadership by example; and

WHEREAS, the City of Salida has already taken action to reduce greenhouse gas emissions, including increasing City facility energy efficiency, 100% solar offset of the organization's energy use, and has pushed to adopt sustainable and innovative building and energy codes.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SALIDA, AS FOLLOWS:

1. The aforementioned recitals are hereby fully incorporated herein.

2. That the City of Salida hereby adopts the City of Salida Climate Action Plan, incorporated herein as Exhibit A.

RESOLVED, APPROVED AND ADOPTED this 20th day of July, 2021.

CITY OF SALIDA, COLORADO

By_____

P.T. Wood, Mayor

ATTEST:

Erin Kelley, City Clerk

[SEAL]







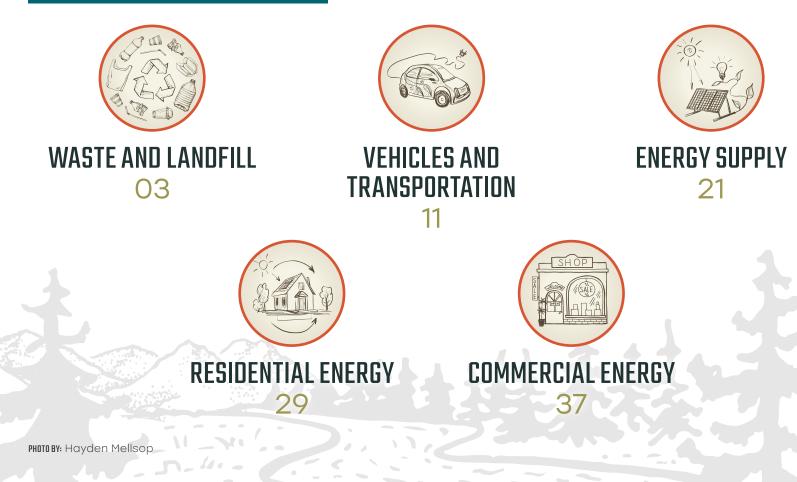


INTRODUCTION

Determining specific greenhouse-gas reduction goals and strategies to achieve those goals is the responsibility of many minds to create a shared vision. Therefore, the purpose of this **Climate Action Plan** is not to set requirements but rather, to help present and organize the many dozens of recommendations and strategies that volunteers have compiled for the City of Salida to enable the community to create achievable goals.

This Plan outlines a process and should be considered a living document to be revised as new businesses and technologies arise and as the feasibility of the ideas presented here are fully assessed.

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SECTOR OVERVIEW



WASTE AND LANDFILL

Waste diversion is the process of reducing the amount of waste that enters landfills. Increased diversion is commonly achieved through six primary activities, including expanding source reduction activities, recycling, mulching, composting, returning waste to the original provider, and reusing waste generated within a community.

This sector aims to document the status of existing waste and landfill initiatives and identifies the opportunities below to increase waste diversion.

Increase rates of, and participation in, composting and recycling through:

- Education
- Incentives
- Accessibility
- Use of post-composted products

2 Maximize diversion of construction and demolition waste through:

- Education
- "Pay as you throw" services
- Incentives
- Updated building codes
- A "haul-away" salvage program
- Reuse of building materials

1 Increase community compliance with

- waste diversion ordinances through:
- Education
- "Zero waste" public events
- Aligning city, county, and regional codes
- Hosting events for "hard to recycle" items

Consume fewer products and resources through:

- "Buy Local" campaigns
- Mandated bans on plastic and Styrofoam
- Incentives
- Education
- Waste-to-energy technologies at the landfill



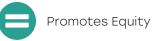




WASTE AND LANDFILL

Increase rates of, and participation in, composting and recycling.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTNERS
 Encourage and enable recycling and composting through education and incentives 		😑 🚯 🚯 🚭 📀	Julie Mach - Elements Composting
2. Create convenient, accessible neighborhood compost drop-off locations		= 5 🔕 🔾 ∞	Elements Composting
3. Equip an entity like the landfill with resources to turn organic waste into a safe and usable compost product) 🚯 🌔 📀	Chaffee County
4. Make finished compost product available to gardeners and landscapers) 🚯 🜔 🕸	Chaffee County
5. Provide, at reduced cost, a carbon "offset" created by composting			Local Nurseries



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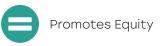
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WASTE AND LANDFILL

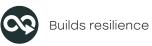
Increase rates of, and participation in, composting and recycling (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
6. Run ongoing public education campaigns to promote composting			Greater Arkanso Association (GA
7. Support "Business That Cares" program to incentivize partners through quarterly recognition and feature one excelling business		5 🙆 🔿 🔿	
8. Encourage monthly dedicated use of two grinder at facilities to organize matter.) 5) 🗘 😒	









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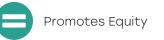
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WASTE AND LANDFILL

Maximize diversion of waste, including construction and demolition waste.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Encourage buildings to provide adequate space for composting and recycling collection			Building Owners
2. Encourage multifamily complexes, short- term rentals and other private buildings to provide composting and recycling spaces		😑 🚯 🍪 🛟 🐼	Multi-family Build
3. Encourage trash services to offer reduced trash pick-up days		= 3 🍪 🔾 🕸	Local Trash-coll Businesses
4. Expand space at landfill for recycling and composting			Chaffee County
5. Expand business participation in compost collection services			Local Restaurar

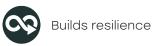


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WASTE AND LANDFILL

Maximize diversion of waste, including construction and demolition waste (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
6. Incentivize deconstruction over demolition) 🚯 🚯 🔂 📀	New Home Build
7. Update building codes to prioritize deconstruction over demolition) 🚯 🚯 🔂 🐼	Chaffee County
8. Create a salvage yard for deconstructed building materials for community access and "haul away") 🚯 🔔 📀	Greater Arkanso Association (GA County
9. Promote Habitat for Humanity store and other building material reuse			Habitat for Hum



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WASTE AND LANDFILL

Increase community compliance with waste diversion ordinances.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Provide education across relevant target audiences			(GARNA), Mickey of Shavano Recy
2. Create and enforce zero-waste event requirements			
3. Require recycling and compost bins at public events			
4. Align city, county and regional waste policies and codes			Chaffee County Springs, Buena \
5. Host community-wide events to support proper already in progress disposal of hard-to-recycle items) 🚯 🚯 🕞 🐼	Michael Kunkel

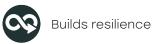


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WASTE AND LANDFILL

Consume fewer products and resources.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Conduct "buy local" campaigns		S S S O S	Chamber of Co
2. Promote reusable mugs and water bottles		S S	Short-term Ren
3. Develop and adopt ban on single-use plastic bags, Styrofoam and plastic			
4. Develop programs to reduce use of plastic food service packaging) 🚯 🌔 🐼	Local Restaurar
5. Incentivize use of reusable containers over disposable		⊖ § 🎄 🕂 🛇	Local Media
6. Promote government and corporate purchasing policies favoring low waste and support food-waste programs			Chaffee Count Local Restaurar



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WASTE AND LANDFILL

Consume fewer products and resources (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
7. Require use of recycled asphalt and glass in streets		
8. Discourage or place fee or ban single-use plastic bags		
9. Research and promote waste-to-energy technologies at landfill		= 5 🔕 🛟 ∞



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OBJECTIVE 4

SECTOR OVERVIEW



VEHICLES AND TRANSPORTATION

GHG emissions in the Vehicles and Transportation sector are associated with the combustion of liquid fuels in the wide range of vehicles traveling within, to, from, and through the City. Opportunities to reduce emissions in this sector include shifting transportation modes away from single-occupancy vehicle use and transitioning personal and commercial vehicle fleets to low-or zero-emission options such as electric vehicles.

The primary objective to reduce GHG in this sector is to promote options to and ultimately completely replace the use of fossil-fuel vehicles by:

- Expanding all types of mobility services, such as mass transit, bike-walk networks, on-demand services, ride-sharing, carpooling, etc.
- 3 Supporting changes to relevant local, state and federal policy.
- 4 Increasing the cost of owning and operating fossil-fuel vehicles.
- 2 Enabling wide-spread adoption of alternative-fuel vehicles.
- **5** Adopting new technologies and business models.

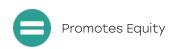




VEHICLES AND TRANSPORTATION

Reduce VMT (Vehicle Miles Traveled) by promoting alternative to single-occupancy vehicles.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Create funding mechanism for free regional bus ridership		5 6 0	Bike Shops
2. Promote and incentivize carpooling		= 5 😣 🗗 ∞	
3. Promote teleworking as an alternative to commuting		S S	Heart of the Ro Center, Salida S
4. Increase the number and quality of safe routes and transit options to schools		∋ () 🔕 🕂 📀	Chaffee County Shuttle
5. Enable growth of on-demand mobility services (ride-sharing, e-hailing, bike-sharing, car-sharing, etc.)) 🚯 🚯 🕂 🔿	Colorado Depar of Transportatio Colorado Comm for Climate Acti
6. Place 'air-pollution disclosure' labels on gas pumps (similar to Surgeon General's warnings on cigarettes)) 🚯 🚯 🕂 🔾	Bike Shops, Salia Districts







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VEHICLES AND TRANSPORTATION

Enhance first- and last-mile connectivity to transit.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Establish bike-share network to better connect neighborhoods and work centers		😑 🚯 🚷 🛟 📀	Bike Shops
2. Establish ride-share network to better connect people traveling to similar destinations) 🚯 🚯 🔂 🐼	Heart of the Ro Center, Salida S
3. Promote zero-emission and driver-less technologies for expanded mobility services		5	Chaffee County Shuttle
4. Expand bicycle network to better connect work centers and neighborhoods		😑 🚯 🎒 🚱	Colorado Depar Transportation, Communities for Action, Bike Sho School Districts

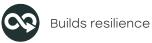


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VEHICLES AND TRANSPORTATION

Promote adoption of alternative fuel vehicles for individuals and fleets.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Increase proportion of EVs in fleets			Chaffee County District
2. Increase EV charging stations in visible, accessible locations		= 5 🍪 🕂 ∞	Colorado Depar Transportation, County, Michael
3. Require EV charging stations (or EV readiness) in all new commercial developments) 💲 🚷 🕂 📀	Developers, Buil
4. Require EV charging stations (or EV readiness) in all new multi-family developments		= 5 😣 🗗 ∞	Developers, Buil
5. Require all new single-family construction to be EV-ready) 🚯 🚯 🛟 🐼	Builders, Develo
6. Provide incentives to tie PV (and storage battery) installation to EV purchases) 🚯 🚯 🛟 🐼	







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VEHICLES AND TRANSPORTATION

Promote adoption of alternative fuel vehicles for individuals and fleets (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTNE
7. Provide free public EV charging stations		5 6 7	Xcel Energy, Color Department of Tre
8. Support full spectrum of low-emission vehicles			Colorado Departr of Transportation
9. Convert fleets to low-carbon-fuel vehicles			Salida School Dist
10. Provide financial incentives to convert fleets to low-carbon-fuel vehicles			
11. Make transportation fuels at landfill using Methane capture) 🚯 🙆 🛇	Chaffee County
12. Deploy public-outreach campaign and give public opportunity to drive an EV			
13. Facilitate EV bulk-purchase program) 🚯 🚯 🔂 🐼	Salida School Dist Chaffee County
14. Encourage and educate the public about CVs		😑 🚯 🍪 🔂 🐼	

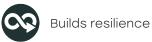








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VEHICLES AND TRANSPORTATION

Redesign urban form and population density to reduce vehicle use.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
1. Use zoning to site new development near work centers		😑 🚯 🚷 🔂 🖘
2. Enable a greater percentage of workforce to live near work		😑 🚯 🚯 🔂 📀
3. Improve pedestrian options		😑 🚯 🚯 🔂 📀
4. Improve and expand pedestrian infrastructure		😑 🚯 🚷 🔂 📀
5. Create and expand no-car zones) 🚯 🚯 🗘 📀
6. Improve and expand bicycle infrastructure		😑 🚯 🚯 🔂 📀



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OBJECTIVE 4



VEHICLES AND TRANSPORTATION

Redesign urban form and population density to reduce vehicle use (continued).

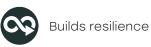
ACTIONS	GHG REDUCTION POTENTIAL PRIMARY CO-BENER		PARTI
7. Place bike racks in strategic locations; consider covered and winter bike racks		😑 🚯 🍪 🚭 🐼	Bike shops, Loco Chamber of Cor
8. Support local food production and sale at scale) 🚯 🍪 🚭	Chaffee County Farmer's Market de Christo
9. Eliminate minimum-parking requirements for development; instead, require transit and mobility services			Salida School Di



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VEHICLES AND TRANSPORTATION

Support relevant federal, state and local policy through active legislative and regulatory engagement.

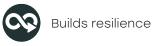
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
 Support local, state and federal incentives, policies and programs to grow EV adoption and infrastructure 	• • • •		Colorado Comm for Climate Acti
2. Actively support state transit grants		∋ § & ⊖ ∞	Colorado Comm for Climate Acti
3. Support EPA GHG emissions standards and fuel-efficiency standards for medium- and heavy-duty engines and vehicles			Federal Governr
4. Promote state fuel-economy standards (like CA's)			Colorado Comm for Climate Acti
5. Advocate to strengthen the national fuel- economy targets (CAFE standards)			











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VEHICLES AND TRANSPORTATION

Promote new mobility technologies and business models.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Integrate a multi-modal mobility system at the regional or state level		= 5 🚷 🗗 📀	Colorado Comm for Climate Actio Chaffee County
2. Pilot on-demand bus and/or van share		∋ \$ \$ € ○	Colorado Depar of Transportatic
3. Address regulator barriers to shared-use mobility and driverless vehicles		= 5 👶 🗗 📀	Colorado Comm for Climate Actie
4. Support on-demand parking apps to reduce vehicle circulation and congestion		5 🙆 🔿 🔿	



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VEHICLES AND TRANSPORTATION

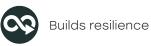
Increase the cost of using fossil-fuel vehicles.

ACTIONS	GHG REDUCTION POTENTIAL	DUCTION POTENTIAL PRIMARY CO-BENEFITS	
1. Establish CO ₂ fees on fossil-fuel vehicles at purchase or registration			Colorado Comm for Climate Acti
2. Establish congestion fees on fossil-fuel vehicles in designated areas or for driving during high-use time			Chaffee County
3. Tax gasoline sales locally or regionally) 🚯 🚯 🕒 🔘	Chaffee County









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SECTOR OVERVIEW



ENERGY SUPPLY

GHG emissions in the Energy Supply sector are associated with purchased electricity and natural gas and propane use in residential and commercial buildings. Fossil-based resources are significantly more carbon-intensive than renewable energy sources. Opportunities to reduce emissions in this sector range from fuel switching to decentralizing production.

Major objectives to reduce GHG in this sector are to:

Mandate decarbonization of energy supply.

- Participate in regional collaboration of governments, businesses, and utilities to drive clean-energy transition.
- Pursue retirement, conversion, or sale of fossil-fuel plants serving the area.
- Establish regional market-based mechanism favoring low-carbon energy (e.g. carbon tax).

2 Enable consumers to purchase and produce renewable energy.

- Pilot micro-grid infrastructure to create districts that produce the same amount of energy they consume.
- Install renewable systems on municipal facilities.
- Expand municipal renewable-energy-power purchasing when on-site renewables are unsuitable.

Reduce the cost of renewable energy.

- Facilitate solar PV and/or solar-thermal bulk purchase program.
- Incentivize community solar.
- Provide funding and incentives for residential and commercial solar projects.

Invest in renewable generation at the community and utility levels.

- Site and develop utility-operated renewable capacity in local service area.
- Advance regional grid flexibility to enable a predominantly renewable electricity supply.
- Invest in energy storage to address the intermittency of wind and solar.

5 Support relevant federal and state policies through active legislative and regulatory engagement.

- Support continuation and strengthening of Colorado's renewable energy standard.
- Support state or national price on carbon.
- Join a coalition of communities advocating for federal climate/energy policies.





ENERGY SUPPLY

Mandate decarbonization of energy supply.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Participate in regional collaboration of governments, businesses, and utilities to drive clean-energy transition		S A C	Heart of the Ro Center, Salida A Harriet Alexande School District,
2. Establish regional market-based mechanism favoring low-carbon energy (e.g. carbon tax)			State Governme
3. Pursue retirement, conversion, or sale of fossil-fuel plants serving area			Atmos Energy, X
4. Remove barriers to local renewable-energy generation		$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	Chaffee County
5. Pursue options for local renewable-energy- generation) 🚯 🌔 📀	
6. Communicate to utilities the importance of reducing the carbon content of electricity) 🚯 🍐 🔾 📀	Atmos Energy , I

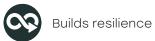








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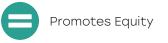
, Xcel Energy



ENERGY SUPPLY

Enable consumers to purchase and produce renewable energy.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
 Install renewable systems on municipal facilities) 🚯 🔔 🐼	
2. Expand municipal renewable-energy-power purchasing when on-site renewables are unsuitable		5 🙆 🔿 🔿	High-energy-us businesses
3. Pilot microgrid infrastructure high-energy- usage to create districts that produce the same amount of energy they consume		5 0 0	Atmos Energy, >
4. Enable consumers to participate in wholesale clean-power market			
5. Promote access to rooftop solar for homes and businesses through code and utility policy		5000	Chaffee County









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ENERGY SUPPLY

Enable consumers to purchase and produce renewable energy (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
6. Assist large entities in implementing clean energy purchasing		5000	Heart of the Roo Center, Salida So Large businesse
7. Use PACE (Property Assessed Clean Energy) and other financing mechanisms to fund renewable installations		= 5 🍪 🔿 🐼	Colorado Office Chaffee County
8. Address the soft costs of solar energy installations such as permitting and interconnection fees		= 5 0 0	Chaffee County Atmos Energy
9. Change land-use codes to encourage regional solar development		5 🔕 🔿 🐼	Chaffee County









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ENERGY SUPPLY

Reduce the cost of renewable energy.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Expand Advanced Metering Infrastructure (AMI)			Atmos Energy, >
2. Facilitate solar PV and/or solar-thermal bulk purchase program		= 5 🔕 🔾 📀	Colorado Offic Peak Solar
3. Provide funding and incentives for residential and commercial solar projects		= 5 🍪 🔾 📀	Chaffee Housir Colorado Offic
4. Expand solar programs for low-income households		= 5 🚷 🔾 🐼	Colorado Offic
5. Streamline and incentivize rooftop solar installation process (e.g. sales tax legislation)		= 5 🍪 🔿 🐼	Colorado Offic Colorado Comr Climate Action
6. Incentivize community solar		= 5 🚷 🔾 📀	Colorado Offic



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ENERGY SUPPLY

Invest in renewable generation at the community and utility levels.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Develop goal to self generate a given percentage of government, public and non-profit buildings' energy needs, and install corresponding renewable capacity		= 5 🍪 🔿 🕸	Colorado Office
2. Develop geothermal energy		$\bigcirc \bigcirc $	Xcel Energy
3. Develop local hydropower capacity		5 🚷 🔿 📀	Xcel Energy
4. Site and develop utility operated renewable capacity in local service area) 🚯 🍐 🔿 🐼	Xcel Energy, Atm
5. Advance regional grid flexibility to enable a predominantly renewable electricity supply		= 5 🔕 🗗 📀	Colorado Office
6. Invest in energy storage to address the intermittency of wind and solar		= 5 🍪 🗗 📀	Colorado Office
7. Install methane digesters in city facilities		S	







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ENERGY SUPPLY

Support relevant federal and state policies through active legislative and regulatory engagement.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Promote and share success of local climate initiatives as local narrative for broader climate action) 🚯 🚯 🔂 📀	Media, Colorado of Ski Towns
2. Cultivate elected officials as local champions for state and federal climate and energy policy		= 6 🔕 🔾 📀	State Governme Government
3. Track state and federal climate and energy policy and engage when appropriate) 🚯 🌔 📀	Colorado Comm Climate Action, Association of S
4. Advocate for grid modernization and flexibility policies) 💲 🙆 🔿 📀	Xcel Energy, Atm
5. Support continuation and strengthening of Colorado's renewable Energy Standard		= 5 🚷 🕂 ∞	Colorado Comm Climate Action, Association of S
6. Support State Energy Office of Colorado Association of Ski Towns		😑 🚯 🍪 🛟 🐼	Colorado Comm Climate Action, Association of S









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OBJECTIVE 5

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ENERGY SUPPLY

Support relevant federal and state policies through active legislative and regulatory engagement (continued).

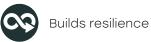
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
7. Remain member of Colorado Communities for Climate Action (CC4CA) to support state climate and energy policies		$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	
8. Join coalition of communities advocating for federal climate and energy policies		∋ § § € ∞	Colorado Assoc Ski Towns, Moun
9. Support state or national price on carbon		= 6 🍪 🕂 ∞	Colorado Comm Climate Action, Government
10. Help defend the Clean Air Act and continued EPA regulations of CO ₂ as a pollutant		∋ ⑤ ⑧ ⊖ ∞	



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OBJECTIVE 5

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SECTOR OVERVIEW



RESIDENTIAL ENERGY

GHG emissions in the Residential Energy sector are associated with the use of electricity, natural gas, and propane in ownership and rental units. Residential units are typically served by electric and natural gas utilities, and opportunities to reduce GHG emissions are tied to decarbonizing the supply of energy flowing to the unit and consuming less of it.

The major objectives to reduce GHG in this sector are to reduce energy consumption and convert most energy use from fossil fuels to renewables by:

- Increasing the energy efficiency of spaceand water-heating.
- 2 Converting space- and water-heating to electric.
- **3** Mandating no- to low-carbon standards for new construction and major remodels.
- 4 Improving the energy efficiency of existing buildings.
- **5** Reducing the energy consumption in rental housing and multifamily buildings.



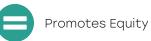




RESIDENTIAL ENERGY

Increase the efficiency of natural gas space- and water-heating, and convert to electric.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Convert natural gas heating systems to electric or renewable energy) 🚯 🚯 🕤 ∞	
2. Convert natural gas water-heating systems to electric or renewable energy		5 🔕 🕂 📀	
3. Heat buildings with geothermal heat pumps, air source heat pumps, or other heat-exchange technology) 🚯 🌔 📀	
4. Integrate heat- and space-heating equipment standards into building codes			Chaffee County
5. Promote energy efficiency improvements such as adding insulation and pipe wrap to water heaters		∋ \$ ○ € ○	Energy Smart C
6. Encourage integration with AC systems if AC need is anticipated			

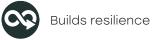








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OBJECTIVE 1

RTNERS



RESIDENTIAL ENERGY

Mandate no- to low-carbon standards for new construction and major remodels.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Incentivize above-code buildings		5 0 0	
2. Adopt the latest energy codes with specific local requirements to exceed minimum standards		= 5 🚷 🔾 📀	
3. Adopt net-zero building and energy conservation codes		= 6 🔕 🖯 🛇	
4. Require net zero, or near for all new development		= 5 🔕 🕂 📀	
5. Require net zero, or near, for houses over a specific square footage) 🚯 🌔 📀	
6. Strengthen building codes and standards to move toward net zero) 🚯 🌔 📀	
7. Conduct community training on updated code requirements			Colorado Office







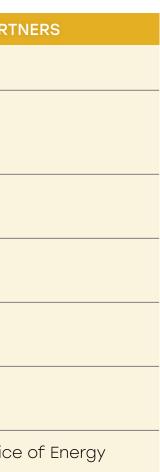
Improves local environmental quality



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RESIDENTIAL ENERGY

Improve the energy efficiency performance of existing buildings.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
1. Retrofit buildings to meet updated building codes		= 5 🔕 🖯 ∞	Energy Smart Co
2. Provide financial incentives for energy- efficient retrofits		= 3 🍪 🛟 📀	
3. Enact ordinances to drive and support energy retrofits) 🚯 🌔 📀	
4. Facilitate education and accreditation for contractors, architects and property managers			Colorado Office
5. Require and incentivize measurement and verification of energy-efficiency programs		= 3 🍪 🕂 📀	
6. Mandate sleep-mode technology for second homes and STRs when unoccupied			
7. Encourage adoption of building automation systems			







Improves local environmental quality



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Builds resilience



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RESIDENTIAL ENERGY

Improve the energy efficiency performance of existing buildings (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
 Conduct energy-efficiency challenges and provide incentives to drive energy retrofits 		5 0 0	
9. Encourage cool roofs (white coating) to reduce cooling needs		= 5 🚷 🔾 🐼	
10. Encourage green roofs (covered in soil and plants) to reduce heating and cooling needs) 🚯 🌔 📀	
11. Facilitate peer-to-peer information-sharing among building owners			
12. Improve access to PACE and other specialized financing mechanisms			
13. Provide regulatory and zoning relief for projects that meet verifiable low-energy standards (e.g. LEED)		= 5) 0	
14. Support low-income households with energy upgrades and on-site renewable energy		= 5 🚷 🕂 🐼	Energy Smart C



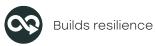




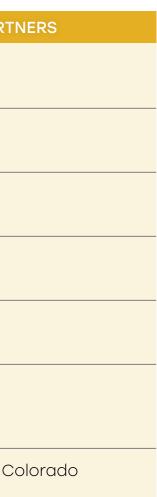
Improves local environmental quality



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OBJECTIVE 3





RESIDENTIAL ENERGY

Reduce energy consumption in rentals, apartments and multifamily buildings.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
 Encourage and incentivize energy-efficient retrofits in rental housing 		= 6 🚷 🔂 ∞	
2. Partner with utilities to improve tenants' access to energy-usage data			Xcel Energy, Atm
3. Implement mandatory, phased energy- efficiency upgrades for rental units			
4. Support building automation to optimize efficiency		$\bigcirc \bigcirc $	
5. Deploy a targeted outreach strategy to engage renters			
6. Adopt building energy reporting and disclosure ordinances		∋ \$ & ○ ○	









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TNERS

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RESIDENTIAL ENERGY

Reduce energy consumption in rentals, apartments and multifamily buildings (continued).

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PARTI
7. Require energy performance disclosure at time of lease or sale			
8. Implement sub-metering for multifamily buildings to provide specific building energy data			Xcel Energy, Atm
9. Promote energy-efficiency opportunities through outreach, workshops and neighborhood challenges			



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RESIDENTIAL ENERGY

Anticipate and mitigate likely expansion of air-conditioning use.

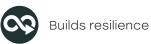
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	
 Avoid or delay the need for AC through building design and management 		6 0 0	
2. Require high-efficiency AC Systems as AC use becomes more prevalent		$\bigcirc \bigcirc $	
3. Coordinate with efforts to adopt high- efficiency electric heating systems			



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SECTOR OVERVIEW



COMMERCIAL ENERGY

GHG emissions in the Commercial Energy sector are associated with the use of electricity, natural gas, and propane in owner- and tenant-occupied businesses in single occupancy and mixeduse buildings. These buildings are typically served by both electric and natural gas ("NG") utilities. Opportunities to reduce GHG emissions are tied to decarbonizing the supply of energy flowing to commercial properties and consuming less energy in them.

The major objectives to reduce GHG in this sector are to reduce energy consumption and convert most energy use from fossil fuels to renewables by:

- Increasing the energy efficiency of heating systems and appliances.
- 2 Converting natural-gas heating and appliances to electric and/or renewable systems.
- 3 Enhancing energy efficiency in new commercial developments.
- 4 Bringing all buildings up to current codes or retrofitting a majority of existing buildings.
- **5** Improving energy-efficiency education of the public and the construction trades.





COMMERCIAL ENERGY

Promote building-energy benchmarking and reporting.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Created commercial energy benchmarking and disclosure ordinance		6 6 6	
2. Facilitate sub-metering to provide more specific data and improve building owners' access to utility data		$\bigcirc \ \mathbf{S} \ \bigcirc \ \bigcirc \ \bigcirc$	Xcel Energy, Atm
3. Provide technical support to help building owners begin benchmarking			

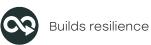


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OBJECTIVE 1

TNERS

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COMMERCIAL ENERGY

Increase the efficiency of NG heating systems and appliances.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
1. Expand participation in voluntary incentive programs for upgrading old or inefficient equipment) 🚯 🚯 🔂 🐼









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COMMERCIAL ENERGY

Replace NG heating and appliances with electric and/or renewable systems.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
1. Eliminate NG connections for all new commercial developments		$\bigcirc \bigcirc $	Atmos Energy
2. Integrate geothermal or ground heat to offset NG use) 🚯 🚯 🚱	
3. Promote solar thermal for water heating		6 6	
4. Provide rebates and incentives to replace old or inefficient boilers with electric			
5. Encourage integration with AC systems if future AC need Is anticipated			







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OBJECTIVE 3

RTNERS



COMMERCIAL ENERGY

Enhance energy and resource efficiency in new commercial developments.

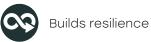
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
 Strengthen building codes to promote energy and resource efficiency in new commercial developments 		0 0 🎒 🔂 📀	
2. Provide above-code incentives for new commercial developments			
3. Require new buildings to achieve LEED standards, focusing on energy efficiency			
4. Require new buildings to meet net-zero energy building standards			
5. Use land-use planning to encourage density in development			
6. Coordinate regional alignment of building codes		$\bigcirc \bigcirc $	Chaffee Count



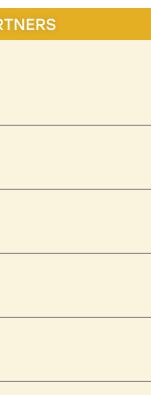




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OBJECTIVE 4



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COMMERCIAL ENERGY

Bring all buildings up to current codes or retrofit a majority of existing buildings.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
1. Require or incentivize remodels to meet code		
2. Require commercial lighting retrofits in existing buildings		5 🚯 🔿 🐼
3. Require or incentivize refrigeration upgrades) 🚯 🜔 📀
4. Ban or disincentivize open doors while heating or cooling is operating		
5. Conduct energy assessments		
6. Provide energy efficiency and renewable- energy incentives for large consumers) 🚯 🚯 🚭



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COMMERCIAL ENERGY

Bring all buildings up to current codes or retrofit a majority of existing buildings (continued).

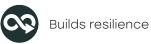
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
7. Develop programs targeting specific commercial users	$\odot \bigcirc \bigcirc \bigcirc \bigcirc$) 🚯 🚯 🕒 🔾
8. Require deep energy retrofits at designated times, such as time of sale or major renovation		= 5 🔕 🕂 🛇
9. Establish incremental time line to require all commercial building meet current codes) 🚯 🎒 🚱
10. Develop and implement program for energy efficiency and renewable energy in historical buildings) 🚯 🚯 🔂 🐼



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COMMERCIAL ENERGY

Model best practices through energy retrofitting of government buildings and properties.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
 Implement energy-efficiency measures in city buildings, offices and facilities) 🚯 🚯 🔂 🐼
 Improve energy efficiency in affordable housing units and complexes 		😑 🚯 🚷 🚭 🐼
3. Train city building operators and facility managers in best practices for energy-efficiency		S
4. Ensure new city buildings Achieve high- performance Green-building standards (e.g. LEED, NEZB)) 🚯 🚯 🚱



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COMMERCIAL ENERGY

Improve education and infrastructure; optimize utility rates.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	PART
 Integrate carbon sequestration practices and infrastructure into built environment 			
2. Provide contractor education programs in green building and energy-efficiency upgrades) 5)	Colorado Office
3. Redesign utility rates to incentivize and balance current and future priorities		= 3 🙆 🛟 📀	
4. Establish a green business certification program to recognize buildings that achieve energy-efficiency and sustainability thresholds		5 🙆 🔿 🔿	



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OBJECTIVE 7

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COMMERCIAL ENERGY

Improve education and infrastructure; optimize utility rates (continued).

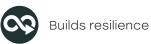
ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
5. Require higher energy-efficiency standards for major appliances		
6. Optimize water-distribution system to make it as efficient as possible) 5) - 6 📀
7. Promote optimal thermostat settings to couple comfort with efficiency		$\bigcirc \bigcirc $
8. Expand messaging and communication on energy programs		



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COMMERCIAL ENERGY

Anticipate and mitigate likely expansion of AC use in buildings.

ACTIONS	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS
1. Avoid or delay AC needs through building design and management		$\bigcirc \bigcirc $
2. Require high-efficiency AC systems as AC use becomes more prevalent		5 0 0
3. Coordinate with efforts to adopt high- efficiency electric heating systems		









