

**RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS (“BOCC”) OF
PITKIN COUNTY, COLORADO, ADOPTING THE 2017 PITKIN COUNTY
CLIMATE ACTION PLAN**

RESOLUTION NO. 074 -2017

RECITALS:

1. Pursuant to Section 2.8.4 (Actions) of the Pitkin County Home Rule Charter (“HRC”), all matters not required to be acted upon by ordinance or formal resolution may be acted upon by informal resolution.
2. Pitkin County has long been committed to sustainability and to preserve natural resources for current and future generations; and
3. There is an overwhelming consensus of the international scientific community that human activities are warming earth’s climate system and that climate change is a global threat will have significant local impacts that can threaten the County’s tourism economy and public safety; and
4. By acting now to reduce greenhouse gas (GHG) emissions, the County can reduce the severity of these impacts; and
5. Pitkin County has committed to taking steps to reduce its own contributions to climate change by adopting the following climate-related resolutions within the last ten years:
 - Resolution of the Board of County Commissioners of Pitkin County, Colorado, Approving the Pitkin County Energy Action Plan (Resolution No. 046-2008)
 - Resolution of the Board of County Commissioners of Pitkin County, Colorado Endorsing Climate Protection (Resolution #034-2012;) and
6. Based on the 2014 greenhouse gas emissions inventory, Pitkin County is emitting 551,900 metric tons of carbon dioxide equivalent (MTCO_{2e}) across the incorporated and unincorporated areas; and
7. Recognizing the importance of Pitkin County’s leadership on this issue, County departments worked collaboratively together to create the Climate Action Plan (CAP) to guide greenhouse gas emission reduction in government operations and services; and
8. The Climate Action Plan incorporated three-year work plans for the following departments and entities: Aspen/Pitkin County Airport, Building Department,

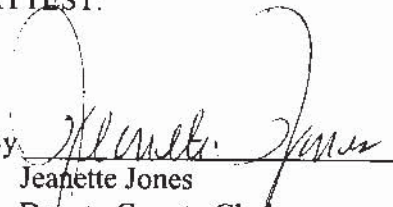
Planning/Zoning/Engineering Departments, Environmental Health Department, Public Works Department, Public Health Department; and

9. The Climate Action Plan is consistent with the Pitkin County Strategic Plan and supports the core focus of a flourishing natural and built environment; and
10. The Board of County Commissioners encourages all County departments to fulfill the CAP; and
11. Pitkin County shall implement the Climate Action Plan based on the availability of resources and monitor progress; and
12. Implementing these actions will directly benefit the County and its citizens; and
13. The BOCC finds that it is in the best interests of the citizens of Pitkin County to approve this Resolution.

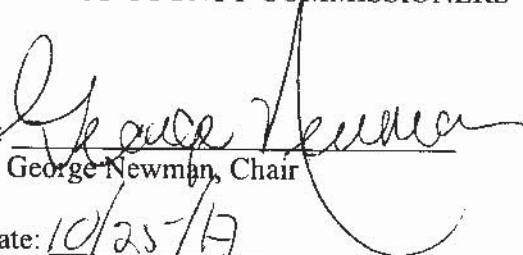
NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Pitkin County, Colorado that it approves Adoption of The 2017 Pitkin County Climate Action Plan and authorizes the Chair to sign on behalf of the county.

INTRODUCED, READ AND ADOPTED ON THE 25th DAY OF OCTOBER, 2017.

ATTEST:


By: 
Jeanette Jones
Deputy County Clerk

BOARD OF COUNTY COMMISSIONERS

By: 
George Newman, Chair

Date: 10/25/17

APPROVED AS TO FORM:


John Ely, County Attorney

MANAGER APPROVAL


Jon Peacock, County Manager

Pitkin County Climate Action Plan

Pitkin County has long been committed to climate action and sustainability to preserve natural resources for current and future generations.

The County recognizes that the changing climate has the potential to significantly affect the environment and the economy. By acting now to reduce greenhouse gas (GHG) emissions, the County can dampen the severity of these impacts.

There are elements of County infrastructure, such as buildings, fleets and the landfill, that generate emissions in the course of providing services to the community. The *Pitkin County Climate Action Plan* focuses on County agencies and initiatives that can reduce emissions. This plan makes an important contribution to emissions reduction and shows the County's leadership. The plan was developed to serve as a guide for departments to drive robust and meaningful reductions.

Relationship to the Strategic Plan

Pitkin County is an organization with a long history of environmental stewardship that values the natural and built environment. This is reflected in the *Pitkin County Strategic Plan*. The Strategic Plan strives for Pitkin County to “continue to be a healthy, safe, vibrant and sustainable community, enhancing the quality of life for everyone who lives, works and visits here, while conserving the natural environment” and prioritizes a “flourishing natural and built environment” as a Core Focus Area. See diagram below:

Figure 1: Pitkin County Strategic Plan



The Strategic Plan action items for achieving the *Flourishing Natural & Built Environment* Core Focus include the following climate-change-related direction:

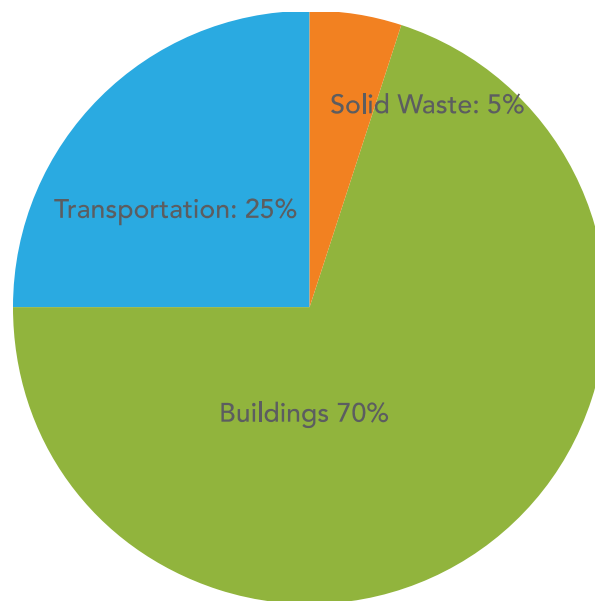
- *Adopt responsible land-use and building practices that support a co-existence of natural and built environments.*
- *Support and encourage food production at a local and regional level.*
- *Promote activities that are climate-change neutral and supportive of appropriate renewable and alternative energy.*
- *Preserve the local, regional and global environment through sustainable land-use measures.*
 - *Ensure that land-use and building codes promote state-of-the-art energy efficiency.*

Greenhouse Gas Emissions

In order to support pivotal values defined in the Strategic Plan, Pitkin County prepared the *2014 Pitkin County Greenhouse Gas Emissions Inventory* (attached). This will be updated every three years and is just one part of the ongoing planning process to assess, plan and mitigate emissions.

The *Greenhouse Gas Emissions Inventory* defines the source and the quantity of emissions generated across Pitkin County. In 2014, total community GHG emissions across the Pitkin County community were approximately 551,900 metric tons of carbon dioxide equivalent. The figure below shows the emissions by sector. The largest sector is the energy used to heat and power buildings, at 70 percent, followed by fuel from cars, trucks, public transit buses and aircrafts (25 percent) and the decomposition of solid waste at the landfill (5 percent).

Figure 2: Pitkin County GHG Emissions by Sector



In order to effectively address these emissions, each department in Pitkin County that affects the noted sectors above is working toward reducing its GHGs. In collaboration with one another and as part of this Climate Action Plan, each department has developed a three-year work plan to reduce GHG emissions.

Scope

Emissions from county operations are bundled into the community-wide results. But while county-generated emissions likely represent a small portion of overall emissions, they represent an important piece as the County has a greater ability to influence its own operations than other industries.

The Pitkin County Climate Action Plan does not address all actions to reduce emissions. The County is also collaborating with others in the valley to work together on climate action and to produce an overall climate action plan for the greater community.

With the exception of the Public Health Department, this plan focuses on reducing GHG emissions rather than adapting to the impacts of climate change.

Timeline

This is a three-year work plan to reduce GHG emissions from 2017 to 2020 if approved for funding on an annual basis by the Board of County Commissioners.

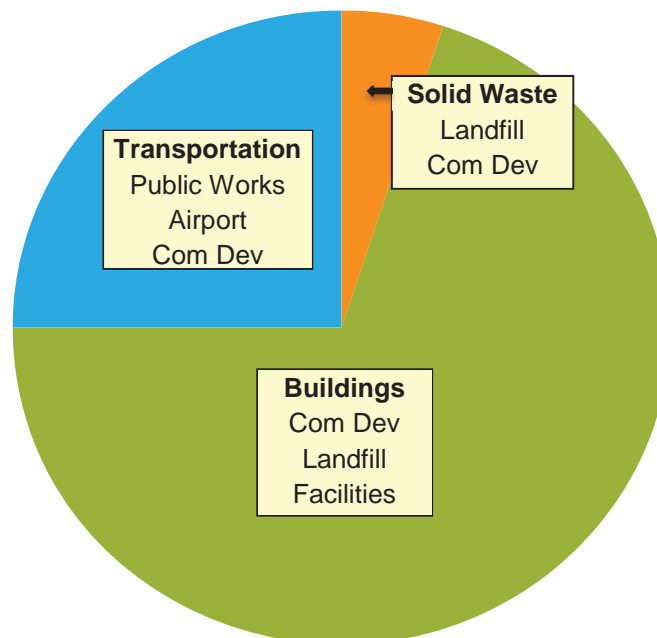
The following Pitkin County Climate Action Plan will be presented to the BOCC upon each budget review and will be reported on at each department update.

Responsible Departments

The process for developing this plan involved the following departments: Aspen/Pitkin County Airport, Building Department, Planning/Zoning/Engineering Departments, Landfill, Environmental Health Department, Public Works Department, and Public Health Department.

The following chart illustrates Pitkin County departments primarily responsible for each sector of the GHG emission reduction work plan:

Figure 3: Pitkin County Departments



Note: The Public Health Department is not included in the above chart. The Public Health Work Plan is primarily concerned with building local resilience and adapting to the impacts of the changing climate rather than reducing emissions.

AIRPORT CAP – DRAFT JUNE, 2017

CLIMATE ACTION PLAN 2017-2020

Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff, Equipment)	Start Year/Quarter End Year/Quarter	Anticipated Obstacle(s)	Com Dev Anticipated Solution(s)	Anticipated Budget Needed
	Terminal/Building Energy – dominant source is existing terminal						
1.	Replace the new terminal with larger and notably more energy efficient terminal	CORE collaboration/grants; Potentially add CORE representative to terminal design team	Funding	Envir: 2017-2019 Design: 2018-2019 Const: 2019-2022	Cost of the terminal relative to other airport needs – could use additional funding sources		\$89M
2.	Consider geo thermal or other renewables as part of the terminal complex	CORE collaboration/grants; Potentially add CORE representative to terminal design team	Funding	Envir: 2017-2019 Design: 2018-2019 Const: 2019-2022	Cost of the terminal relative to other airport needs – could use additional funding sources		Unknown
Airport	Fleet Vehicles						
3.	Identify high emission vehicles that are in line for replacement, and replace earlier	Infrastructure requirements; grants (VALE, VW potential options)	Potential funding sources review	2018	Airport's need to be consistent in its procurement with County specifications/vendors		Unknown
Airfield	Electrical						
4.	Consider replacing airfield lighting with LED lighting	CORE collaboration/grants; review of LED ROI relative to ASE climate (may need heater to keep clear of snow)	Funding/Review of ROI relative to LED due to weather	With proposed airfield changes (2023-2028)	Funding availability; Potential operational barriers due to climate at ASE (snow could require use of heaters which may offset the benefits of this option)		Unknown
Tenant Owned and Controlled Sources							
5.	Aircraft: Encourage reliance on alternative fuels	Meet with Rocky Mountain Institute to discuss collaboration	Ability to manufacture in the valley	Unknown	Ability to manufacture fuel near its use. Transporting from Denver is not cost effective.		Unknown
6.	APU use of apron parking – installation of preconditioned air and electric GPUs	Examine use of FAA VALE grants/CORE grants	Funding	Unknown	Cost effectiveness and potential need for an expanded apron with fixed/less flexible parking positions		Unknown
7.	Rental Cars: With new facility, include energy efficiency and water conservation in the OTA	Coordination with rental car companies/lease agreements	Funding and specification to be developed	Unknown	Cost effectiveness		Unknown
Ground Access Vehicles							
8.	Investigate rewards for increase vehicle occupancy/ride share	Potential for County employees	Partnership with local entity (SkiCo) to provide rewards	Unknown	Value of the rewards/multi seasonal, number of merchants/businesses participating		Unknown
9.	Increase ridership of public transportation	Work with planning process to provide easier access to BRT station in future	RFTA, funding	Unknown	Cost and social norms of riding public transportation with luggage, solving the luggage transport and frequency of travel		Unknown
10.	Require taxi and airport shuttles to meet a MPG standard		Legal review and development of an ordinance	Unknown	Opposition from providers, requirement to change vehicles		Unknown
11.	Rental Cars: require rental car operators to meet a MPG standard for on-site rental agreements	Coordination with rental car companies/lease agreements	Legal review and development of lease requirements.	Unknown	Opposition from providers, requirement to change vehicles		Unknown

LANDFILL CAP – DRAFT MAY, 2017

CLIMATE ACTION PLAN 2017-2020

Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff, Equipment)	Start Year/Quarter Year/Quarter	Anticipated Obstacle(s)	Com Dev Anticipated Solution(s)	Anticipated Budget Needed
1.	New Waste and Recycling Ordinance-goal to increase waste diversion Expand compost program	Community Stakeholders Engineering Consultants	Enforcement personnel	2017/2 nd 2019/1 st 2017/3 rd	Space constraints, community opposition	Enforcement assistance None	
3.	Expanded Diversion Programs- Textiles, Mattresses		Landfill Staff (Once a month collection)			None	
4.	Stormwater Mitigation/Leachate Collection System	Engineering Consultants			CDPHE Denial of Proposed Technology	None	\$200,000
5.	Waste Diversion Plan-Diversion Goals	Consultants/Com Dev (Permit Requirements)			Community opposition, particularly form homeowners and builders.	Diversion requirements in building and demo permits.	
6.	Shredded Tires as Alternative Daily Cover	Overton Recycling				None	
7.	Landfill Expansion	Engineering Consultants State CDPHE			CDPHE. Community opposition	None	Approx. \$1.2 million

BUILDING DEPT. CAP – DRAFT 4.19.17

BUILDING WORK PLAN 2017-2020

Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff/Equipment)	Start Year/Quarter End Year/Quarter	Anticipated Obstacle(s)	Community Development Anticipated Solution(s)	Anticipated Budget
1.	Energy Addendum			2016 – Final Mid 2017	More public outreach before adoption.	Public outreach – May/June 2017 Adoption – July 2017	CORE Grant \$20,000/Doe
2.	Landfill C & D	Landfill Department	<ul style="list-style-type: none"> ▪ FTE for Auditing ▪ Existing staff review of demo permits 	2017 – Adopt 2018	Training the construction industry Education Enforcement	Revise Building Code to review demo/deconstruction plans.	(See Landfill budget for anticipated FTE)
3.	2015 IECC Adopted			Done Adopted			
4.	REMP Rewrite	CORE consultant	Staff review at building permit	Underway adoption mid 2017 with addendum	<ul style="list-style-type: none"> ▪ Public Outreach ▪ Enforcement and follow up 	Revision to REMP regulations	CORE Grant assessed with Addendum
5.							
6.							

PLANNING/ZONING/ENGINEERING CAP – DRAFT 10.12.17

PLANNING/ZONING/ENGINEERING WORK PLAN 2017-2018							
Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff/Equipment)	Start Year/Quarter End Year/Quarter	Anticipated Obstacle(s)	Community Development Anticipated Solution(s)	Anticipated Budget
1.	GHGI	CORE, Aspen & other Communities All departments internally	Long Range Staff CORE Staff	2016-2017 Adopted	Updating every three years		Grants
2.	Colorado Climate Action Plan		Staff	2017-January 2018	Work load/funding	On-going department integration	Budget funding per year
3.	LU Code siting improvements	CORE, Building Department	Staff/consultants	2017-2018	Time/capacity for Staff	Consultant help	*\$50,000 2017 *\$50,000 2018 *Already allocated
4.	Work with County Building & Maintenance Department to develop a Work Program for inclusion within the Climate Action Plan. Include an action item within Work Program to track and review energy use of all Pitkin County buildings for greenhouse gas emissions measurement purposes.	Building & Maintenance Dept., CORE, Holy Cross Cooperative, Black Hills Energy	Staff	2017-2018	Time/capacity for Staff	Assistance from CORE	
5.							

PUBLIC WORKS CAP – DRAFT MAY, 2017

CLIMATE ACTION PLAN 2017 -2020

Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff, Equipment)	Start Year/Quarter End Year/Quarter	Anticipated Obstacle(s)	Com Dev Anticipated Solution(s)	Anticipated Budget Needed
1.	Utilize opportunities for renewable energy COMPLETED: Purchase of 98 kW from CEC In Progress Install 103 kW at PW yard Install ~125 kW at Landfill	Facilities, Engineering, Com Dev Contractor – Sol Energy – PW Staff	Staff time, Consulting work for feasibility, planning, and design Staff time, consulting work, CORE (grant) Staff time, consulting work, CORE (grant)	Ongoing 1/17 – 3/17 1/17 – 3/18	Pushback from CoA for buildings in town, budget, feasibility (lack of sun) at some facilities		125k 150k
2.							

PUBLIC HEALTH CAP – DRAFT OCTOBER, 2017

Climate Change and Public Health

Significantly reducing greenhouse gas emissions is important in slowing climate change and minimizing impacts. Public Health focuses on prevention, and this is true in relation to climate change initiatives. Primary prevention includes mitigation strategies, such as Vehicle Anti-Idling Policies, which can reduce greenhouse gas emissions. Secondary/Tertiary prevention involves creating resilience and adaptation. Efforts to prepare for climate change and reduce the associated health burden are important, since some degree of climate change will continue and have a significant economic, social, and environmental impact on communities, even after reducing greenhouse gas emissions. Climate change adaptation is anticipating adverse effects of climate change, identifying vulnerable populations and taking action to prevent or minimize damage or negative impacts or taking advantage of opportunities that may occur.

The ability to cope and adapt differs across populations, economic sectors, and communities. There is a gap between high and low income populations based on their vulnerability to climate change and their readiness to adapt to droughts, extreme weather events, and natural disasters, such as wildfires. The Public Health strategies provided in the Pitkin County Climate Action Plan are community based rather than internal, and include primary, secondary and tertiary prevention strategies, with a particular focus on those most vulnerable to climate change events.

Public and Environmental Health Work Plan 2017-2020

Rank #	Goal & Sub Tasks (if needed)	Collaboration Needs Internal/External	Resource Needs (Staff/Equipment)	Start Year/Quarter End Year/Quarter	Anticipated Obstacle(s)	Anticipated Solution(s)	Anticipated Budget
1.	Grey Water Regulation Adoption	State Health, Division of Water Resources, Com Dev, IGAs with other jurisdictions if desired, Board of Health	Staff Time	Underway. Final adoption late 2017	Water Rights for private well owners	Work with Division of Water Resources to have applicant demonstrate water rights at application for permit.	
2.	OTWS Regulation update Subtasks: 1. Stakeholder Meeting(s) 2. Creation of Regulation based on CDPHE Reg #43 and Stakeholder feedback 3. Review by Attorney's Office 4. Adoption of Regulation by Board of Health	State Health, Com Dev, Attorney's Office, Board of Health	Staff Time	June 2017 June 2018			
3.	RMCO Public Health Stakeholder Group	Com Dev/BOCC, State Health, Board of Health	Staff Time	Underway Finish-?	Follow up with RMCO and CDPHE to continue efforts		
4.	Vehicle Anti-Idling Policy for unincorporated Pitkin County	Board of Health, CORE, Attorney's Office	Staff Time	July 2017 June 2018	Education of the Public, Enforcement	Stakeholder meetings and outreach	

PUBLIC HEALTH CAP – DRAFT OCTOBER, 2017

<p>5.</p>	<p>GOAL: Vulnerable populations identification and protection steps to reduce climate-related risks</p> <p>SUBTASKS:</p> <ol style="list-style-type: none"> 1. Update State Health GIS Inclusion Project mapping data of vulnerable populations and hazard risk 2. Support emergency preparedness for long-term care facilities and other vulnerable pop. service locations 3. Subsidize energy efficiency upgrades and weatherization for low-income homeowners and renters 4. Provide support during extreme events (e.g. utility bill assistance resources, shut-off prevention in heat waves or extreme cold, transportation for evacuations or to cooling Workcenters, etc.) 	<p>State Health, Geographic Information Systems (GIS), Emergency Management, Human Service, Community Development and CORE</p>	<p>Staff Time</p>	<p>Q1 2018- Q4 2020</p>	<p>Data to identify vulnerable populations is not always accurate or up-to-date</p> <p>Connecting with vulnerable populations to provide protection have barriers such as language, geographic isolation, physical and cognitive disability</p>	<p>Find updated data sources and ensure for reliability</p> <p>Find resources (help with cultural competency, older adult friendly, disability friendly) to help with outreach and connections.</p>	
<p>5.</p>	<p>GOAL: Improved public health preparedness, response, and communication to adverse weather events, poor air quality, etc</p> <p>SUBTASKS:</p> <ol style="list-style-type: none"> 1. Update all Public Health Emergency Plans 2. Create Press Release templates to activate during events 	<p>State Health, Regional Emergency Preparedness and Response Team, Emergency Support Function-8, Emergency Management</p>	<p>Staff Time</p>	<p>Q4 2017-Q2 2018</p>	<p>Plans need to be tested once updated</p> <p>Communication needs to be accessible to everyone in the population (easy to read and understand, in English and Spanish), in written and oral form</p>	<p>Schedule table top and events to exercise updated plans</p> <p>Find resources (help with cultural competency, older adult friendly, disability friendly) to help with outreach and connections.</p>	<p>Budget will be needed for communication strategies \$5,000</p>

PUBLIC HEALTH CAP - DRAFT OCTOBER, 2017

6.	<p>GOAL: Improved disease education, surveillance and response to food-borne and zoonotic diseases</p> <p>SUBTASKS:</p> <ol style="list-style-type: none"> 1. Create 2017 surveillance baseline data 2. Continue to do mosquito monitoring to inform mosquito control practices 3. Bring food safety trainings to Pitco 	<p>State Health, Restaurant and other food retailers, Colorado State University Extension, Attorney</p>	Staff Time	Q2 2017-Q4 2020	<p>Need funding for food safety trainings in both English and Spanish</p> <p>Need continued funding for mosquito monitoring</p>	<p>Find and schedule appropriate trainings</p> <p>Build annual budgets to reflect these costs</p>	<p>Food safety trainings \$5,000</p> <p>Mosquito monitoring \$ 5,500</p>
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