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Posted: _____

Agenda

New Castle Climate Action Advisory Commission VIRTUAL Work Session

Thursday, June 18, 2020, 6:30 PM

Due to concerns related to COVID-19, this meeting will be held as a virtual meeting only. The public is invited to attend.

[To join by computer, smart phone or tablet click HERE](#)

If you prefer to telephone in:

Please call: 1-346-248-7799

Meeting ID: 709 658 8400

Follow the prompts as directed. Be sure to set your phone to mute until called on.

**Call to Order
Roll Call
Meeting Notice
Conflicts of Interest
Citizen Communication**

Items for Consideration

1. Update on Changing the Name of CAAC - Commissioner Leland

2. Update on Commission Assignments

- * Updates/Revisions to the Climate Action Plan – Chair Scheberle, Commissioner Brown
- * Updates/Revisions on Possible School Projects/Activities at Coal Ridge - Commissioners Elder and Baquero
- * Updates on Possible School Projects/Activities in Elementary and Middle School or Other Settings - Commissioner Huyser
- * Updates on Federal/State Incentives to Rooftop Solar - Chair Scheberle - See Handout
- * Updates on Working with Garden Club and New Castle Gardens and Trees - Commissioners Elder and Baquero
- * Communication Strategy: How to Best Engage Community About Climate Change - All Commissioners

3. Consider Agenda Items for the July 16, 2020 Meeting

Adjourn

Climate and Environment Agenda for Future Actions DRAFT DRAFT DRAFT

History of the Climate Action Plan

On April 3, 2007, Mayor Frank Breslin signed the U.S. Mayors Climate Protection Agreement as the Town Council fully committed to developing and implementing strategies to reduce greenhouse gas emissions. The Climate Action Advisory Commission, **later named the Climate and Environment Commission (CEC)**, was created to help the town pursue the goals of this agreement. **The goals included inventorying greenhouse gas emissions in city operations; adopting land-use policies that reduce sprawl, preserve open space; promote greener transportation options, such as bicycle trails and incentives for public transit or carpooling; making energy efficiency a priority through building code improvements, upgrades to water and wastewater treatment facilities, and purchases of vehicles and equipment; promoting tree planting for shading and carbon dioxide absorption; educating the public, schools, businesses, and the community about reducing greenhouse gasses.**

Over the next thirteen years, the town made strides in addressing these goals, by installing roof-top solar on municipal buildings, installing electric vehicle charging stations, adopting efficient building codes, planting trees, gaining efficiencies at wastewater and water treatment facilities, and more. In 2020, the CEC decided to update these goals, as shown in the next section.

CLIMATE AND ENVIRONMENT GOALS

In 2020, the CEC determined that the most important long-term goals were to help:

1. **advise the council and educate the community about climate change and its effects.**
2. **provide guidance on individual and community activities that serve to reduce greenhouse gas emissions and protect the environment.**
3. **advise and assist the town and community in transitioning to a more renewable and energy efficient future.**
4. **advise the town in planning for and mitigating climate change impacts.**

ACHIEVING THESE GOALS EMPLOYS FOUR KEY STRATEGIES:

1. **Lead by example.** Municipal government will **continue to** make its buildings and operations a model of energy efficiency and renewable energy while reducing energy costs.
2. **Strengthening communication and education efforts of the CEC.** The CEC should provide accurate and helpful information regarding climate change and environmental protection to stakeholders.
3. **Network with local and regional partners to remove barriers and provide incentives for wiser energy use.** The Town will work with Xcel Energy, Holy Cross Energy, the Roaring Fork Transit Authority (RFTA), the Community Office for Resource Efficiency (CORE), the Clean Energy Economy for the Region (CLEER), the Governor's Energy Office (GEO), and others to accelerate the transition to a clean energy future, offering programs to households and businesses that combine financing, technical assistance, and education.
4. **Increase local renewable energy supplies.** The Town will use its ability to access funding to act as a local energy producer and investor, **especially solar energy.**

MEASURABLE ACTION STEPS TO MEET THE LONG-TERM GOALS

1. Education

- a. Create, pilot, and implement educational programs with schools and groups**

Measurement of progress: Contacting educators and piloting a learning activity about environmental protection and climate change in at least one class in 2020

- b. Create a stand-alone, recurring educational program for multiple grades**

Measurement of progress: Locate and fine-tune to our community age-appropriate learning packages that could be used every year

2. Opportunities for individual and collective action

- a. Explore opportunities for planting of appropriate tree and vegetation species, with guidance on use of water-saving mulches and soil amendments**

Measurement of progress: Providing list of native trees and vegetation, as well soil amendments, irrigation techniques, and proper planting procedures on the CEC webpage and also as a insert in the water utility bill

Measurement of progress: Encouraging and helping the town plant trees/vegetation

Measurement of progress: Networking with the Garden Club and other organizations

- b. Fine-tune use of water and other environmental resources by town and community**

Measurement of progress: Communicate with residents regarding most effective and efficient watering strategies through the CEC website and other communication avenues

Measurement of progress: Work with the town in monitoring irrigation in parks and other spaces

3. Transitioning to a more renewable and energy efficient future

- a. Encouraging energy efficiency audits by homeowners**

Measurement of progress: Ensure that at least ten homes have an energy audit each year, and that homeowners are aware of free or low-cost energy audits and incentives and rebates for homes

Measurement of progress: Connect and coordinate with regional partners such as GCE, CLEER, CORE and inform the public

- b. Encouraging energy efficiency audits by businesses**

Measurement of progress: Ensure that at least one business has an energy audit each year, and that business owners are aware of free or low-cost energy audits and incentives and rebates for businesses

Measurement of progress: Connect and coordinate with regional partners such as GCE, CLEER, CORE and inform local businesses

c. Communicating with stakeholders regarding incentives for renewable energy, addition of insulations, storm windows, electric vehicles, roof-top solar panels, lighting, air conditioners

Measurements of progress: CEC creates a catalog of what is available for assisting in renewable or energy efficient changes and develops a strategy for implementation

4. Planning for and mitigating climate change impacts

a. understanding the increased risk of wildfires and how to mitigate and respond

Measurement of progress: Meet with appropriate town and fire officials to learn how to prepare and to improve fire-mitigation/prevention around homes and businesses

Measurement of progress: Communication and guidance for residents

b. understanding the increased risk of drought and how to mitigate and respond

Measurement of progress: Meet with appropriate town officials and water conservationist to learn about how to prepare and minimize water usage among the public and the town

Measurement of progress: Communication and guidance for residents

ESC Partner Rebates						Utility Rebates											
	EFFICIENCY MEASURE	CORE (Aspen to Glenwood Springs)	C4 (Lake County)	HC3 (Summit County)	WMSC (Eagle Valley)	CITY OF ASPEN ELECTRIC	ATMOS ENERGY	BLACK HILLS ENERGY (gas)	GLENWOOD SPRINGS ELECTRIC	GUNNISON COUNTY ELECTRIC	HOLY CROSS ENERGY	LA PLATA ELECTRIC	SAN MIGUEL POWER	SANGRE de CRISTO	YAMPA VALLEY ELECTRIC	XCEL ENERGY	
ENVELOPE	Air Sealing	25% up to \$500	see guidance below to apply for 50% up to \$300	50% up to \$400	50% up to \$500	25% up to \$500 (electric only)	30% up to \$300	70% up to \$900	25% up to \$500 (up to \$1,000/electric)		40% up to \$500					60% up to \$450	
	Insulation	25% up to \$500		50% up to \$400	50% up to \$500	25% up to \$500 (electric only)	30% up to \$300	\$0.25-0.50/sq.ft up to \$850	25% up to \$500 (up to \$1,000/electric)		40% up to \$700					30% up to \$600	
HEATING & COOLING	Programmable Thermostat	25% up to \$500	participants may apply for up to \$300 in reimbursements (for up to 50% of project costs) for any improvements completed as recommended by the home energy assessment report	50% up to \$400	up to \$200	25% up to \$500	\$75 (Energy Star)	\$25 - \$100	\$50 (electric only)		50% up to \$50				\$50 (limit 2) (electric only)	discounted on website	
	Gas Furnace			50% up to \$400			\$400 (95% AFUE)	\$250 (94% AFUE) \$350 (96% AFUE)									\$300
	Boiler			50% up to \$400	50% up to \$500 (95% AFUE & electric)		\$300 (95% AFUE)										
	Boiler/Furnace Maintenance & Tune Up						\$50										
	Evaporative Cooler (Swamp Cooler)	25% up to \$500					25% up to \$500			25% up to \$500		\$200 - \$300					\$200 - \$1,200
	Balanced Ventilation (HRV/ERV)	25% up to \$500			50% up to \$400	50% up to \$500	25% up to \$500										
Heat Pump	25% up to \$2,500		50% up to \$400	50% up to \$500 (>10HSPF); gas to electric up to \$2,500	25% up to \$500			25% up to \$1,000 (electric only)	up to \$500/ton plus \$150/unit	\$600/ton (neep.org certified)	contact LPEA at 970-247-5786	up to \$500/ton			\$300		
HOT WATER	Indirect Water Heater	25% up to \$500	see guidance above to apply for 50% up to \$300			25% up to \$500		\$850									
	Standard Tank Water Heater			50% up to \$400 (Energy Star)	50% up to \$500 (Energy Star)			\$150 (min 0.64 EF)						\$30 to \$50		\$70 (min 0.64 UEF)	
	Tankless Water Heater	25% up to \$500		50% up to \$500 (Energy Star)	25% up to \$500	\$200 (min 0.86 EF)	\$400 (min 0.87 EF)				\$55 to \$75					\$100 (gas only)	
	Electric Heat Pump Water Heater	25% up to \$500		50% up to \$400	50% up to \$500 (Energy Star); gas to electric up to \$2,500	25% up to \$500			25% up to \$500	up to \$370/unit	\$450	\$350	up to \$370/unit			\$450	
RENEWABLES	EV Charging	25% up to \$500				25% up to \$500					Free level 2 ChargePoint Charger						
	Solar Thermal / Solar Hot Water	25% up to \$2,500		50% up to \$400	50% up to \$500						\$20/1,000BTU up to \$3,000 (electric only)	\$750 (electric backup only)					
	Solar Photovoltaic (PV)	25% up to \$2,500		Solarize Summit: \$1,500 (limited)	50% up to \$500 (IQ up to \$1,500)	\$0.75/watt up to 3KW			\$0.50/watt up to 3KW		\$0.20 - 0.75/watt up to 25KW		\$0.25/watt up to 3KW or \$750			Solar Rewards Program	
	Solar System Tune Up	25% up to \$500															
	Storage System	25% up to \$2,500				25% up to \$2,250											
ELECTRIC	Lighting (LEDs)	25% up to \$500			50% up to \$500 (Energy Star)	25% up to \$500			50% up to \$200	50% up to \$8/LED/fixture	50% up to \$3/LED		50% up to \$8/LED/fixture	apply online	up to \$3/bulb max 10 LEDs/yr	discounted LEDs on website	
	Induction cooktop/range				50% up to \$500; gas to electric up to \$2,500												
	Heat Tape Controls	25% up to \$500			50% up to \$500 (must be hard-wired)	25% up to \$200			25% up to \$200		\$200 (must be hard-wired)				\$75 (hard-wired) \$15 (plug-in)		
APPLIANCES	Clothes Dryers								\$30 (Energy Star) \$90 for electric hybrid heat pump		\$30 (Energy Star)	\$30 (Energy Star) \$90 for electric hybrid heat pump	\$30 (Energy Star)				
	Clothes Washers								\$50 - \$60 (Energy Star)		\$30 (Energy Star)	\$60 - \$80 (Energy Star)	\$30 (Energy Star)	\$50			
	Dishwashers								\$35 (Energy Star)		\$20 (Energy Star)	\$40 (Energy Star)	\$20 (Energy Star)	\$50			
	Refrigerators or Freezers				50% up to \$100 (Energy Star)	\$100 for recycling			\$100	\$50 (Energy Star) \$60 for recycling	\$50 for recycling (must replace 20+ yr old working model with new)	\$30 (Energy Star) \$60 for recycling	\$80 (Energy Star) \$60 for recycling	\$30 (Energy Star) \$60 for recycling	\$90/fridge; \$80/freezer	\$50 for recycling (electric only)	
OTHER	Window Replacement			50% up to \$400													
	Cellular Blinds/Shades				50% up to \$500 (double or triple cell)												
	Radon Mitigation				50% up to \$500 (pre/post radon level testing required)												

apply for rebates: <https://www.energysmartcolorado.com/for-my-home/home-rebates/>

Residential rebates/incentives for going green:

1. Federal tax incentive for residential solar is 26 percent in 2020: total cost x .26

<https://ionsolar.com/ultimate-guide-solar-power-homes/>

[https://ionsolar.com/colorado-solar-incentives-five-things-residents-need-to-know/#:~:text=While%20the%20State%20of%20Colorado,\(Cost%20of%20Installation\)%20X%20.](https://ionsolar.com/colorado-solar-incentives-five-things-residents-need-to-know/#:~:text=While%20the%20State%20of%20Colorado,(Cost%20of%20Installation)%20X%20.)

2. No state tax incentive for roof-top solar, but local and utility programs are available:

https://www.xcelenergy.com/programs_and_rebates/residential_programs_and_rebates/renewable_energy_options_residential/solar/available_solar_options/on_your_home_or_in_your_yard/solar_rewards_for_residences

Also, sales and property tax incentives (don't pay extra property taxes for increased home value)

3. Other incentives from light bulbs to air conditioning:

https://www.xcelenergy.com/programs_and_rebates/rebate_finder_tool

https://www.xcelenergy.com/programs_and_rebates/residential_programs_and_rebates/heating_and_cooling/cooling

<https://www.energysmartcolorado.com/for-my-home/home-rebates/>