

**CARBONDALE ENVIRONMENTAL BOARD  
REGULAR MEETING  
November 21, 2022  
Town Hall, Room 1  
IN-PERSON/VIRTUAL MEETING  
6:00 P.M.**

**ATTENTION: The Carbondale Environmental Board Meeting will be conducted in person and virtually via Zoom. If you wish to attend the meeting virtually and you have a comment concerning one or more of the Agenda items please email [kmcdonald@carbondalecto.net](mailto:kmcdonald@carbondalecto.net) by 4:00 pm on November 21, 2022. If you would like to comment virtually during Persons Present Not on the Agenda please email [kmcdonald@carbondalecto.net](mailto:kmcdonald@carbondalecto.net) with your full name and email address by 4:00 pm on November 21, 2022. You may also watch a live streaming of the meeting on You Tube. Search Town of Carbondale Environmental Board Meeting November 21, 2022. Please be aware that you will experience a 15-30 second delay.**

You are invited to a Zoom webinar.

When: Nov 21, 2022 06:00 PM Mountain Time (US and Canada)

Topic: Town of Carbondale Environmental Board Meeting, November 21, 2022

Please click the link below to join the webinar:

<https://us06web.zoom.us/j/81436652769?pwd=UIF1S1ZiWGfJZk95ZXJMVkVXQ1A3Zz09>

Passcode: 154298

Or One tap mobile :

US: +17193594580,,81436652769#,,,,\*154298# or +12532158782,,81436652769#,,,,\*154298#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 719 359 4580 or +1 253 215 8782 or +1 346 248 7799 or +1 669 444 9171 or +1 669 900 6833 or +1 253 205 0468 or +1 305 224 1968 or +1 309 205 3325 or +1 312 626 6799 or +1 360 209 5623 or +1 386 347 5053 or +1 507 473 4847 or +1 564 217 2000 or +1 646 931 3860 or +1 689 278 1000 or +1 929 436 2866 or +1 301 715 8592

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TIME*		ITEM	DESIRED OUTCOME
6:00	1.	Roll Call	
6:01	2.	<u>Consent Agenda:</u> Approval of October 17, 2022, Minutes	ATTACHMENT A REVIEW & APPROVE
6:05	3.	Persons Present Not on the Agenda	
6:10	4.	Board Membership Update	
6:15	5.	Board of Trustee Update: Chris Hassig	
6:25	6.	Staff Update: Mark O'Meara	
6:35	7.	CLEER Update: Discussion of Pathway to Net Zero for Existing Buildings	ATTACHMENT B REVIEW & DISCUSS
6:55	8.	EV Update: Go EV City, Charger Funding and Next Steps	ATTACHMENT C & D REVIEW & DISCUSS
7:15	9.	Subcommittee Updates: Landscape/Low Water, Climate Action Plan	

7:30	10.	Dandelion Day: New Coordinator, EBoard Programming Goals for Outreach	
7:45	11.	Open Discussion	
8:00	12.	Adjourn	

**\* Please note: times are approximate**

**Carbondale, CO - Path to Net Zero Roadmap for Existing buildings, October 25, 2022-DRAFT**

	2023	2024	2027	2030	2040	2050
<b>Commercial Benchmarking</b>	Benchmarking and reporting for buildings over 20k ft <sup>2</sup>	Benchmarking for buildings over 15k ft <sup>2</sup>  Public disclosure of usage of buildings over 20k ft <sup>2</sup> begins	Benchmarking for buildings over 10k ft <sup>2</sup>  Public disclosure of usage of buildings over 15k ft <sup>2</sup> begins	Benchmark all buildings over 5k ft <sup>2</sup> Public disclosure of usage of buildings over 10k ft <sup>2</sup> begins	Benchmark all buildings over 5kft <sup>2</sup>	Benchmark all buildings.
<b>Commercial Upgrades</b>	Lighting audits for buildings over 15k ft <sup>2</sup>	Lighting audits for buildings over 10k  Lighting upgrades for buildings over 15k ft <sup>2</sup>  RCx requirements begin for buildings over 20k ft <sup>2</sup>	RCx requirements begin for buildings over 15k ft <sup>2</sup> Lighting upgrades for buildings over 10k ft <sup>2</sup>	RCx requirements begin for buildings over 10k ft <sup>2</sup> Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 25% Renewables	RCx requirements begin for buildings over 5k ft <sup>2</sup> Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 75% Renewables	RCx requirements begin for all buildings Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 100% Renewables
<b>Town Bldgs Electrification</b>	Retrofit TOC Facilities with largest carbon footprint	Retrofit TOC Facilities with next largest carbon footprint	Retrofit TOC Facilities with next largest carbon footprint	Final percentage of TOC buildings retrofitted.	Continue monitoring & evaluation of buildings	-
<b>Existing Homes, Renovations</b>	Create triggers for catching existing homes.	Triggers: -Bldg Permit -Appraisal -Refinance	Homes over certain energy use or over certain size need benchmark and HES	All homes need benchmarking and HES	All homes need benchmarking and HES	All homes need benchmarking and HES

<b>Existing Homes, Home Energy Score</b>	Begin outreach to the real estate industry and potential assessors. Hold training for HES Assessors	HES required for all Single-family homes and townhouses at time of listing for sale	HES below 5 required to improve by one point	HES below 6 required to improve by one point	HES below 8 required to improve by one point	All home required to be HES 10
<b>Existing Homes, Portfolio Manager</b>		Res Portfolio Manager <50, bring to 50	60	75	90	100, Net Zero
<b>Additions, Alterations</b>		Level 3	Level 3 & 2	Level 3,2,1	All	All
<b>PV, Beneficial Electrification (BE), Triggered homes must meet requirements</b>		Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 25% Renewables. Battery Ready	Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 25% Renewables. Battery Ready	Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 40% Renewables. Storage requirements	Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 80% Renewables. Storage	Mandatory efficiency upgrades. Phasing out of gas heating equipment. Require 100% Renewables, Storage

RESOLUTION #088  
(Series of 2022)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ASPEN, COLORADO,  
DECLARING ASPEN A GoEV CITY AND PLEDGE TO ELECTRIFY ON-ROAD AND  
OFF-ROAD TRANSPORTATION AND EQUIPMENT

**WHEREAS**, emissions from fossil fuel powered vehicles are now the largest source of greenhouse gas emissions both at the state and national levels, and is a contributing factor to air pollution and climate change, threatening the health of our citizens and the sustainability of our planet; and

**WHEREAS**, on-road transportation emissions are responsible for 11% of Aspen's total community emissions which is the third largest source of emissions in Aspen. In the municipal greenhouse gas inventory, where emissions directly related to City operations are measured, fleet fuel use was the second largest source (23%) of emissions in 2019, and the largest source (24%) in 2020; and

**WHEREAS**, the City of Aspen has made long-standing commitments to reduce its contributions to global greenhouse gas emissions, and specifically to reduce emissions in the transportation sector; and

**WHEREAS**, in 2021, the City of Aspen adopted bold science-based targets that call for a 63% reduction in emissions by 2030, and 100% reduction of emissions (net zero) by 2050 in reference to a 2017 emissions baseline; and

**WHEREAS**, the transportation sector needs support to move towards the adoption of clean energy technology, including electric vehicles, and zero emission vehicles (ZEV), that reduces our dependence on foreign fuels and supports a healthy environment and economy. Electric and ZEV technology includes on-road and off-road battery electric vehicles, plug-in hybrid electric vehicles, and hydrogen fuel cell vehicles; and

**WHEREAS**, the City of Aspen has demonstrated its support for electric and ZEVs through various actions and programs over the last decade, including the Climate Action Plan which led to the Aspen Community Electric Vehicle Readiness Plan in 2017, which created a roadmap for Aspen to transition from fossil fuel powered vehicles; and

**WHEREAS**, the City of Aspen's 100% renewable energy achievement in which it generates or procures all of its electricity supply from renewable sources provides a sturdy foundation for electric vehicles and equipment to be powered by clean energy; and

**WHEREAS**, electrification of cars, trucks, buses, and equipment is needed in order to achieve deep reductions in carbon pollution, and to reach Aspen's climate goals on a timeline specified by our science based targets; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ASPEN, COLORADO, THAT**

The City Council of the City of Aspen approves the resolution declaring Aspen a GoEV City and pledges to strengthen its commitment to the following electrification objectives:

- Ensure that all strategies to reduce transportation related emissions and promote electric and ZEV use are centered in equity. Staff will continue to promote active and public transportation options ahead of driving.
- Continue to deliver on priorities outlined in the Aspen Community Electric Vehicle Readiness Plan and the Electric Vehicle Public Charging Infrastructure Masterplan which include building out its public-facing electric vehicle charging infrastructure to reach forty, plus or minus 5, charging plugs by 2026.
- Create a municipal fleet electrification plan to present to City Council for approval that brings together multiple stakeholders across different departments to strategize how to add electric and ZEVs to the city owned fleet to reach Aspen's net-zero carbon goal by 2050. The plan will investigate the upfront and annual operating costs of electric vehicles and analyze internal electric vehicle charging and ZEV fueling needs to accommodate these vehicles. In doing so, the plan aims to develop a process to support increased ZEV adoption.
- Transition to medium and heavy-duty ZEVs and off-road equipment as these vehicles become available in Colorado if they can fully support the needs of the departments operations and departmental budgets can accommodate both vehicle acquisition and the associated charging infrastructure.
- Work with municipal partners, including transit partners, in support of their efforts to reduce emissions and share lessons learned from the Aspen municipal fleet electrification experience with these partners.
- Work with community partners, including and not limited to taxis, carshare, hotels, and private organizations, to transition shared fleet vehicles to full electric and ZEVs.
- Work with the community on programs, policies, incentives, and regulatory approaches to transition vehicles within the city to zero emissions by 2050.
- Continue to develop partnerships with micro-mobility partners to promote the use of fossil fuel-free alternative transportation options such as electric bikes and bicycles.

INTRODUCED, READ AND ADOPTED by the City Council of the City of Aspen on the 12th day of July 2022.

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Torre, Mayor

I, Nicole Henning, duly appointed and acting City Clerk do certify that the foregoing is a true and accurate copy of that resolution adopted by the City Council of the City of Aspen, Colorado, at a meeting held, July 12, 2022.

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Nicole Henning, City Clerk

## RESOLUTION 2022-20

### A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GLENWOOD SPRINGS, COLORADO, DECLARING GLENWOOD SPRINGS A GoEV CITY AND PLEDGING TO ELECTRIFY THE TRANSPORTATION SECTOR.

**WHEREAS**, the petroleum-fueled transportation sector is now one of the largest sources of greenhouse gas emissions in the nation and is a contributing factor to air pollution and climate change, threatening the health of our community and the sustainability of our planet; and;

**WHEREAS**, the transportation sector needs support to move toward adoption of clean energy technology, including electric vehicles (EVs), that reduces our dependence on foreign fuels and supports a healthy environment and economy. The term “electric vehicles” includes Battery Electric Vehicles, Plug-in Hybrid Electric Vehicles, Hydrogen Fuel Cell Vehicles; and

**WHEREAS**, electrification of cars, trucks, buses and supporting the availability of electric bicycles where travelers would otherwise use a gas-powered vehicle is needed to achieve deep reductions in carbon pollution, and the benefits grow over time as utilities transition to higher levels of renewable energy; and

**WHEREAS**, Glenwood Springs is dedicated to leading the use of clean energy, through its goals that promote energy conservation and alternative transportation options, having achieved 100% renewable energy for electricity in 2019, and including targets to achieve 20% fossil fuel-free transportation sector by 2030, 100% fossil fuel-free transportation sector by 2050 and reduce greenhouse gas emissions in alignment with the Paris Accord and electrifying the transportation sector is a necessary component for the City to meet these goals; and

**NOW, THEREFORE, IT IS RESOLVED BY THE CITY COUNCIL OF THE CITY OF GLENWOOD SPRINGS, COLORADO, THAT:**

The Glenwood Springs City Council pledges to develop policies and strategies to meet the following transportation electrification objectives:

**Section 1.** Improve transportation and social equity and extend the benefits of transportation electrification to low-income households and communities disproportionately affected by the harmful effects of air pollution.

**Section 2.** Create a municipal fleet electrification plan by 2023 to include a phased approach to meet 100% of the City’s fleet for electrification by 2030 and adopt an “EV First” philosophy for new vehicles with electrifying other vehicles as expeditiously as practicable. The City will develop a decision-making matrix to include the total cost of vehicle ownership, including fuel and maintenance costs, and the social cost of carbon in its vehicle procurement calculations. A citywide electrification master plan including regulations and incentives shall be created by 2024.

**Section 3.** Transition to medium and heavy duty zero emission vehicles and off-road equipment as these vehicles become available in Colorado if they can fully support the needs of



the departments operations and departmental budgets can accommodate both vehicle acquisition and the associated charging infrastructure.

**Section 4.** Support the electric vehicle charging station infrastructure needed to accommodate the transition to electric vehicles considering the availability and sustainability of resources, council priorities and budget constraints.

**Section 5.** Work with the Roaring Fork School District to develop a roadmap to zero-emissions electrification of all new transit and school buses by 2025.

**Section 6.** Advocate for having the Roaring Fork Transportation Authority transition all bus routes within the city to zero-emission by 2030.

**Section 7.** Work with other municipal partners and with shared fleets such as taxis, rideshare, and carshare companies to transition these shared fleet vehicles to full electric fleets by 2030.

**Section 8.** Work with the community on programs, policies, incentives and regulatory approaches to transition 20% of all vehicles within the city to zero emissions by 2030, and 100% of all vehicles by 2050.

**Section 9.** Develop partnerships with micro-mobility companies to promote the use of fossil fuel-free alternative transportation options such as electric bikes and bicycles.

INTRODUCED, READ, AND PASSED THIS 5<sup>TH</sup> DAY OF MAY 2022.

CITY OF GLENWOOD SPRINGS, COLORADO

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Jonathan Godes, Mayor

ATTEST:

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Ryan Muse, City Clerk