



**TO:** Town Council

**FROM:** J.D. Wise, Economic Development & Sustainability Director  
Lauren Kirn, Environmental Efficiencies & Grant Coordinator

**DATE:** February 9, 2024

**RE:** Mountain Village Climate Action Roadmap Update

**EXECUTIVE SUMMARY:**

In 2023, Town staff began work with Cascadia Consulting to develop a Climate Action Roadmap. This roadmap is designed to serve as an implementation plan that provides analysis and helps prioritize the strategies outlined in the Town's 2020 Climate Action Plan.

The attached presentation provides an informational update on the project.

Through this process, staff has identified items in the Town's 2020 CAP and 2019 greenhouse gas emissions inventory that should be revisited prior to completing the roadmap, specifically the accounting of transportation related emissions. Staff plans to address the needed updates and come back to Council with an updated CAP, implementation roadmap, and greenhouse gas emissions inventory for adoption in 2024.

**ATTACHMENTS:**

- Presentation: Climate Action Roadmap Update

**ADDITIONAL INFORMATION:**

In 2023, the Town of Mountain Village hired Cascadia Consulting to develop a Climate Action Roadmap. The roadmap is intended to be a guiding document for prioritizing and implementing the 2020 Mountain Village Climate Action Plan's strategies and actions. Additionally, the roadmap will include a cost-benefit assessment of high-priority actions as well as an assessment of the cost of inaction.

To date, the Town has hosted internal workshops with Town staff and a public workshop to present on the roadmap's progress and garner public input on priority actions. Public feedback was received both during the workshop and through an online survey. Through this process staff has identified items within the Town's 2020 CAP and 2019 greenhouse gas emissions inventory that should be revisited for accuracy and comprehensiveness. These included, but are not limited to, assumptions about and parameters around transboundary transportation emissions.

Town staff recommends updating the Mountain Village Climate Action Plan to account for these revised emissions assumptions and calculations. Additionally, staff will produce a 2023 greenhouse gas emissions inventory to inform the updated CAP. Concurrently, staff will continue work on the implementation roadmap and bring an updated CAP and final roadmap to Town Council as a comprehensive document for formal adoption in 2024.

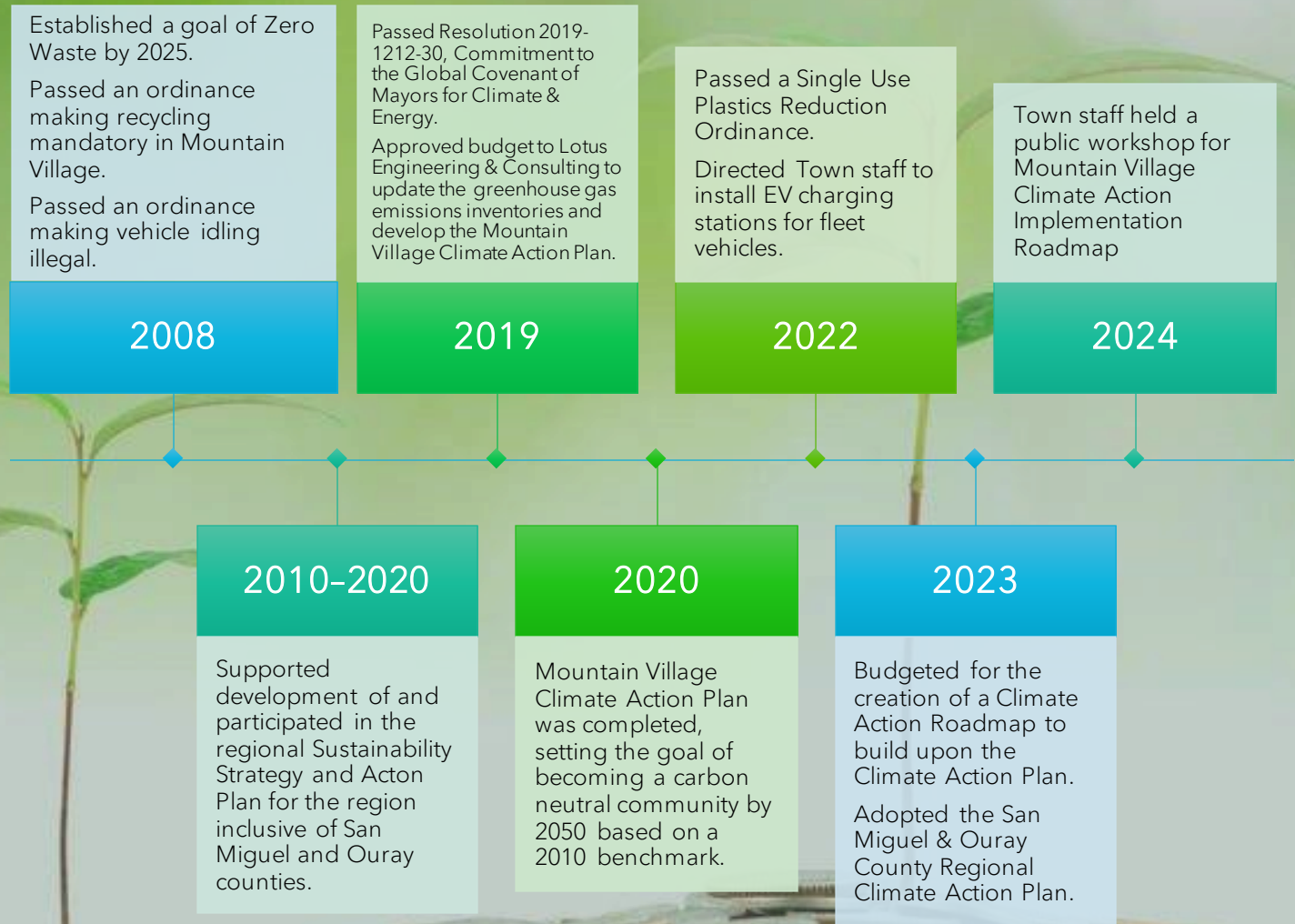
# Mountain Village Climate Action Roadmap Update

MOUNTAIN VILLAGE  
TOWN COUNCIL  
MEETING

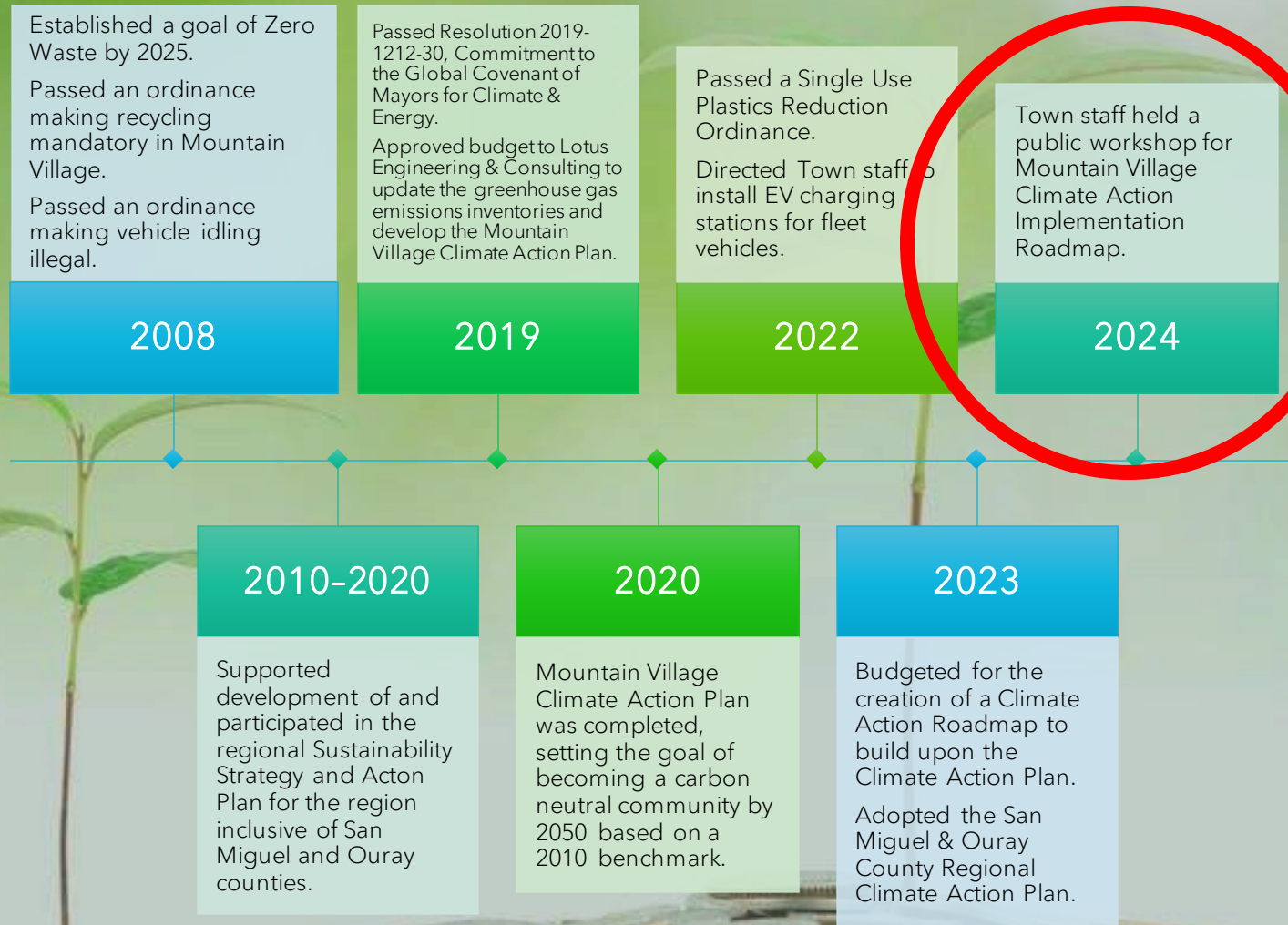
FEBRUARY 15, 2024



# Mountain Village Sustainability



# Mountain Village Sustainability



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# Mountain Village Climate Action Plan (CAP)

-Developed in 2020-

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## Goal Setting

The CAP includes 11 strategies and 33 implementation actions to reduce greenhouse gas emissions. If all recommended actions are implemented, then Mountain Village will reduce its emissions by over 85% by 2050.



## Methodology

Lotus Engineering & Sustainability was hired to develop a 2019 greenhouse gas emissions inventory compliant with the Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories. This inventory informed the CAP. The 85% emissions reduction by 2050 is based on a 2010 baseline.



## Strategies

The CAP sets emissions reduction strategies across four categories: Transportation, Building Energy, Renewable Energy, and Waste. These strategies include suggested actions and emissions reduction estimations.



## Values

The CAP defines Mountain Village's climate action values in terms of fiscal responsibility, quality of life, circular economy, equity, education and engagement, and supporting local food networks.

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# Mountain Village Climate Action Roadmap: Implementing the CAP

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## Purpose

To implement the Climate Action Plan's strategies and actions. The roadmap will prioritize these based on greenhouse gas emissions reductions, timeline for implementation, cost, and community benefit.



## Goal setting

To establish 3-, 5-, and 10-year emissions reductions targets to reach carbon neutrality by 2050.



## Focal points

Address climate mitigation and climate adaptation, taking into consideration economic, social, and environmental factors within the context of the Mountain Village community.



## Approach

Town staff is working with Cascadia Consulting to develop a science-based, transparent implementation plan to reach carbon neutrality by 2050. The plan will be developed with the public's input and will be presented to Town Council for adoption.

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# Mountain Village 2019 GHG Emissions Inventory



## GPC Protocol

Compliant with Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC protocol).



## BASIC Methodology with aviation (partial BASIC+)

The BASIC methodology covers stationary energy, in-boundary transportation, and community-generated waste. Emissions from aviation were also included.



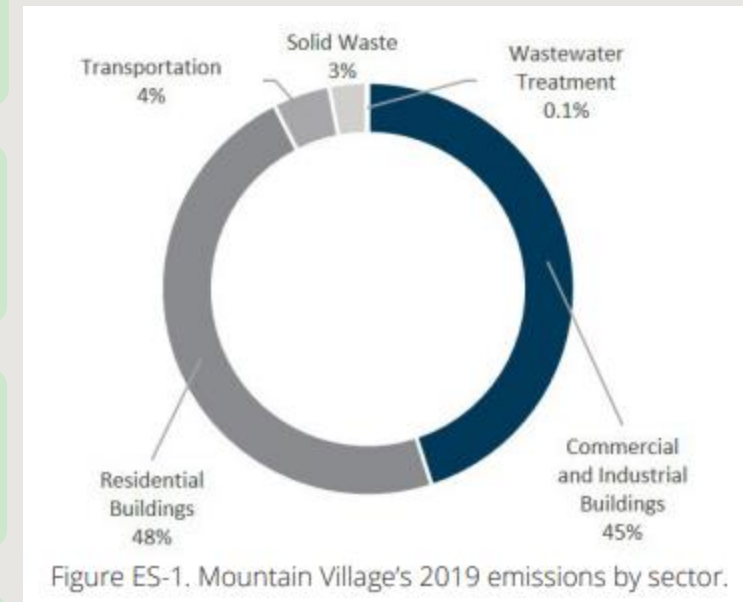
## Town Boundary

The boundaries of the GHG emissions inventory were set as within Town limits.



## Data Collection

Data was collected from TMVOA, the wastewater treatment plant, TSG, the State of Colorado, Bruin Waste, Waste Management, Black Hills Energy, SMPA, and town departments.



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# Next Steps

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- ✓ Town staff has identified items in the 2020 Climate Action Plan and 2019 Greenhouse Gas (GHG) Emissions Inventory that should be revisited.
  - ✓ Staff recommends updating the CAP based on a 2023 GHG emissions inventory that considers additional transboundary transportation emissions.
  - ✓ Concurrently, staff will continue development of the Climate Action Roadmap, taking into account relevant updates to the CAP.
  - ✓ The updated CAP will include the implementation roadmap and cost benefit assessment within a comprehensive document.
  - ✓ This document will be presented to Town Council for adoption in 2024.
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