

TOWN OF MOUNTAIN VILLAGE GREEN TEAM COMMITTEE MEETING TUESDAY, JUNE 14, 2022, 3:30 PM TO BE HELD AS A HYBRID MEETING TOWN POLICE DEPARTMENT 411 MTN VILLAGE BLVD, THIRD FLOOR					
Item	Time	Min	Presenter	Type	
1.	3:30		Wisor		Call to Order
2.	3:30	20	Wisor	Discussion	Green Team Dynamics and Looking Ahead
3.	3:50	10	Kirn	Informational	2022 Community Cleanup Day Update
4.	4:00	25	Kirn	Informational	5-to-10 Year Climate Action Goals
5.	4:25	25	Kirn	Informational	Quarter 2, 2022 Environmental Efficiencies Staff Report
6.	4:50	10	Wisor	Informational	Other Business
7.	5:00		Wisor		Adjourn

Topic: Green Team Meeting

Time: Jun 14, 2022 03:30 PM Mountain Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/84838184249?pwd=MDc3NUdRb0FrOFB5TWIFT1VHUUpWZz09>

Meeting ID: 848 3818 4249

Passcode: 591556

One tap mobile

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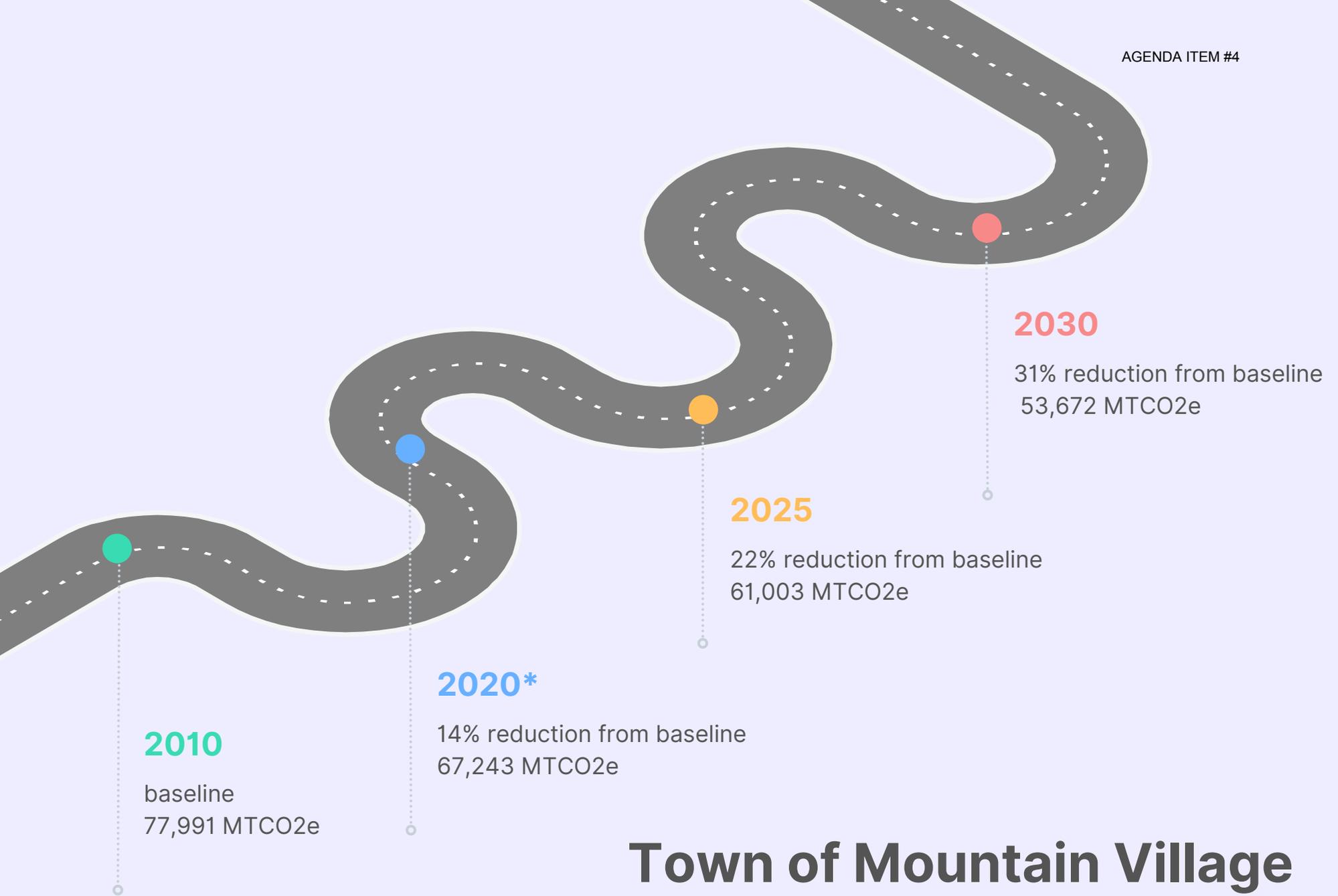
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*2020 is a deviation year due to impacts of the COVID-19 pandemic.

Town of Mountain Village GHG Emissions Reduction 5- and 10-Year Projections²



TOWN OF MOUNTAIN VILLAGE
 455 Mountain Village Blvd., Mountain Village, CO 81435
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TO: Green Team

DATE: June 10, 2022

FROM: Lauren Kirn, Environmental Efficiencies and Grant Coordinator
 Zoe Dohnal, Business Development and Sustainability Director

RE: Greenhouse Gas Emissions Reduction Projections

SUMMARY

The Town of Mountain Village has a goal of carbon neutrality by 2050. By direction of the Green Team, Town staff evaluated current greenhouse gas emissions and environmental initiative impacts to understand the community’s 5-to-10-year greenhouse gas reduction projections. This assessment was completed with the help of Lotus Engineering and Sustainability.

GREENHOUSE GAS EMISSIONS (GHG) OVERVIEW

In 2019, Lotus calculated the Mountain Village community’s greenhouse gas emissions in 2010 in accordance with the Global Protocol for Community-Scale Greenhouse Gas Emissions [GPC] BASIC methodology. The community’s greenhouse gas emissions in 2010 is estimated to be 77,991 MTCO_{2e}.

Lotus was contracted to model the greenhouse gas emissions reduction potential of the Town’s existing incentive programs and potential new incentive programs. In reviewing these models and the feasibility and timelines for implementing potential new programs, the estimated greenhouse gas emissions projections are below. These calculations incorporate greenhouse gas emissions considerations of existing incentive programs, potential incentive programs, recycling, and business-as-usual. The potential incentive programs evaluated and incorporated into the calculations include commercial and residential buildings-related retrofits and energy efficiency upgrades, a community compost bin, electric vehicle fleet transitions for the municipality and for businesses, additional electric vehicle charging stations, and an e-bike program.

Source	Baseline	2025	2030	2035	2040	2045	2050
Lotus		22%	31%	41%	51%	59%	69%
<i>GHG Emissions (MTCO_{2e})</i>	77,991	61,003	53,672	45,875	38,341	32,130	24,356

GREENHOUSE GAS EMISSIONS REDUCTION CONSIDERATIONS AND MOVING FORWARD

As is shown, Mountain Village is projected to reach 69% reduction in greenhouse gas emissions by 2050. Town staff are evaluating the programs modeled by Lotus, assumptions, timelines, and outside factors to understand opportunities for additional greenhouse gas emissions reductions. With buildings as the largest source of community GHG emissions, Town staff are working on researching and developing an incentive program for retrofitting commercial and residential buildings with the goal of rolling it out in 2023. Additionally, staff are working cross-departmentally to evaluate existing building codes and opportunities for incorporating green building standards or

incentives. With solid waste as the second highest source of greenhouse gas emissions, staff are working to develop a community composting program and further increase solid waste diversion rates.

This modeling effort was the first step in understanding Mountain Village's greenhouse gas emissions projections. With this information and the models, staff can prioritize programs high GHG emissions reduction potential and understand the GHG emissions and cost effects of expanding certain programs and implementing others. Additionally, as mentioned, staff are working to identify additional avenues beyond the models for reducing greenhouse gas emissions to reach carbon neutrality by 2050.



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TO: Green Team

DATE: June 08, 2022

FROM: Lauren Kirn, Environmental Efficiencies and Grant Coordinator
 Zoe Dohnal, Business Development and Sustainability Director

RE: Environmental Efficiencies Quarter 2 Report

SUMMARY

The report for the Environmental Department summarizes how key performance measures were accomplished as of May 30, 2022 and provides a summary of department highlights for the year to date and department focuses 2022.

HIGHLIGHTS OF 2021

1. Starting August 16th, 2021, the **Environmental Efficiencies and Grant Coordinator** position has been filled.
2. The Solar Incentive Program had a **37.8% close rate**, the second highest in the state. Solar arrays will provide **68.8KW of solar capacity** on homes in Mountain Village through this program.
3. A total of **9 electric vehicle charging stations** were made available for use within Mountain Village, with 4 more in the pipeline for 2022.
4. The Farm to Community Program served **85 families** and the average daily distribution increased by **16%**.
5. Mountain Village **diverted 2.5 tons of waste** from the landfill through the Compost Incentive Program and November's Free Composting Event.
6. Mountain Village's **recycling rates** for both **residential (27%)** and **commercial (16%)** were higher than the statewide combined recycling and composting rate of 15%.
7. The **Water Conservation Advisory Board** was formed to address long term strategies and measures for water conservation and water loss prevention in Mountain Village.

QUARTER 2 - 2022 OVERVIEW

1. Environmental Policy and Regional Collaboration
 - a. In the second quarter of 2022, Town staff attended **3 of 3 Telluride Ecology Commission** meetings, the **Sneffels Energy Board** quarterly meeting, and the **CC4CA Board Retreat**.
 - b. Town Council approved the San Miguel Watershed Coalition's request for \$10,000 to develop a hydrologic forecasting model of the San Miguel Watershed, pending San Miguel County and Town of Telluride matching commitments.



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- c. Town staff attended the following events: Southwest Water Conservation's 38th Annual Water Seminar, Sustainability Symposium 2022: Roadmap to Decarbonization, Water Law in a Nutshell, Building the Future Now – Climate-Aligned Building Codes and Policies, and Searching for San Juan Permafrost.
2. Zero Waste by 2030
 - a. The **Farm to Community** initiative has **80 households** signed up to date to participate in the 14-week program starting on June 15, 2022.
 - b. Community Clean-Up Day will take place on **August 6, 2022**.
 - c. Recycling
 - i. Mountain Village **residential recycling** is tracking at **27%** for 2022. This is on par with 2021. Plastics made up **7%** of the recycled materials. This surpasses the 2021 Colorado statewide recycling and composting rate of **15%**. The Town's residents have avoided **111 metric tons CO2e** in 2022 to date.
 - ii. Mountain Village commercial recycling is tracking to be around **20%** for 2022. This is a **3% increase** from 2021. Plastics made up about **15%** of the recycled materials. This surpasses the 2021 Colorado statewide recycling and composting rate of **15%** and the statewide plastic containers and packaging rate of **9%** recycling in 2021. The Town's commercial properties have avoided **178.87 metric tons CO2e** in 2022 to date.
 - iii. The Town recycles plastic film collected in a bin outside of the Town Hall entrance and at the VCA Main Office. The bin is filled every month. Informational posts and educational materials will be distributed through email newsletters, blog posts, and social media. The Town started tracking the recycling metric mid-March 2022. The community has recycled **29.43 pounds** of plastic film and packaging in 2022 to date.
 - iv. The Town of Mountain Village **hosted** EcoAction Partners' **Electronic Waste Recycling** event on May 20, 2022. The events in Mountain Village, Norwood, and Telluride diverted a combined **37,910 pounds** of electronic waste.
 - d. Composting
 - i. The Town has contracted with Dirty Sturdy's Mountain Compost to provide weekly composting services to Village Court Apartments for a **one-year pilot program**. Registration for the program is currently **open** and will be accepting applications on a rolling basis. The program has **6 participants** to date since the opening on **June 7**.
 - ii. The Town continues to explore and pursue opportunities for expanding composting options and availability for the region. This includes grant funding, discussions with waste haulers,
 - e. Single-Use Plastic Reduction
 - i. The Town of Mountain Village Town Council unanimously passed the first reading of the **Single-Use Plastics Reduction Ordinance**, which will ban plastic bags and Styrofoam takeout food containers and implement a \$0.20 disposable carryout bag fee at point of sale. The **second reading** is scheduled for Thursday, June 16.
 - ii. The Town will continue collaborating with Telluride and other mountain towns to develop further single-use plastics restrictions in alignment with **HB21-1162**.
3. Carbon Neutral by 2050, using 2010 as a benchmark.



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- a. Greenhouse Gas Reporting
 - i. Staff are gathering the required data for the 2021 municipal and community greenhouse gas inventory reports.
 - ii. Town staff are evaluating greenhouse gas emissions reduction incentive programs to develop **5-to-10-year goals**.
- b. Alternative Energy
 - i. The Town of Mountain Village is a U.S. EPA Green Power Partner. The U.S. EPA's Green Power Partnership requires a **minimum of 25%** green power usage. The Town uses **38% green power**. Mountain Village purchases **1,813,680 kWh/year in green power** from SMPA.
 - ii. In 2022, the Town partnered with San Miguel County to make affordable solar energy accessible to all San Miguel County residents. The 2022 Solar Co-Op has **89 members**, 3 signed contracts, and 24 proposals to date.
- c. Open Space
 - i. The Town of Mountain Village is **60% open space**, which is a significant source of carbon sequestration. Out of the total 2,095.551 acres, Mountain Village has **1,103.8 acres** in open space.
- d. Building Incentives
 - i. Town staff received feedback on the **Smart Building Incentive Program** through a survey sent to the design, engineering, and construction industries. The program is being assessed for efficacy and practicality with this feedback in hand.
 - ii. **Deed-Restricted Workforce Housing incentive** awarded approximately **\$9,790** in fee waivers for deed restricted housing as of June 2022.
 - iii. Staff is researching and evaluating opportunities for improved building efficiencies, including **retrofits, renewable energy, and net zero construction** with the hopes of introducing an **incentive program** in 2023.
- e. Electric Vehicle Charging Stations
 - i. The Town offers one ChargePoint **Level II, dual port charging station** and eight **Tesla Supercharger** stations in the Gondola Parking Lot. The ChargePoint station that opened in May 2019 has avoided 17,052kg of greenhouse gas emissions to date.
 - ii. The Town installed one **Level II electric vehicle charging station** in **Heritage Parking Garage** that is now available for public use. A second charging station is in the process of being installed in **Meadows Parking Lot** over the summer 2022. These EV charging stations are made possible through the Town's **Charge Ahead Colorado** awarded grant.
 - iii. The Town now charges for electricity at EV charging stations. The cost is **\$0.20/kWh**.
4. Water Conservation and Water Loss Prevention
 - a. The Town of Mountain Village is **restricting outdoor water** use during the 2022 summer months, effective June 1.
 - b. The Town was awarded Colorado Water Conservation Board's Engagement & Innovation Grant for community education and outreach on the Smart Irrigation Controls Incentive Program and for irrigation assessments. Residents and business owners will receive a rebate up to \$300 for completing a Town-approved irrigation assessment and associated survey.



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- c. The Town contributes **\$10,000** in annual funding to SWMC for **water sampling and monitoring** to ensure the quality of municipal water, surface water, aquatic species and riparian plant communities within Mountain Village.
- d. Staff has met with SMWC to discuss partnership opportunities, including **beaver awareness and education** for the community.
- e. Water Conservation Advisory Board
 - i. The Environmental and Public Works Departments meet with a **Water Conservation Advisory Board** to discuss and evaluate water conservation measures, discuss opportunities and challenges, and develop a **long-term strategy** for water conservation.
- 5. Natural Resources Management and Education
 - a. Staff will begin conducting noxious weed control activities for both Town-owned and private properties.
- 6. Wildfire Mitigation and Education
 - a. Cedar Shake initiative has awarded approximately **\$74,700** in fee waivers to date.
 - b. The Town has hired Rodney Walters as the new **Forester**. Rodney has Master's in Forestry.

LOOKING FORWARD 2022

2022 is an exciting year for the Town of Mountain Village. Town staff are implementing new programs, like the irrigation assessments and VCA Composting Pilot Program. With these new and existing programs, comes associated data and metrics that can be used to inform strategies and actions moving forward. The Single-Use Plastic Reduction Ordinance passed its first Town Council reading and will undergo its second reading on June 16. Additionally, staff are evaluating opportunities to address building inefficiencies, both residentially and commercially. On a larger scale, Town staff will be attending the MT2030 Summit in Breckenridge in September 2022. This Summit focuses on mountain and outdoor communities achieving zero carbon emissions.