



Town of Rhinebeck



Town of Rhinebeck Climate Action Planning Institute Cohort Presentation

March 20th, 2024

CAPI is a project of the Hudson Valley Regional Council and is funded by the DEC Climate Smart Communities Grant Program.



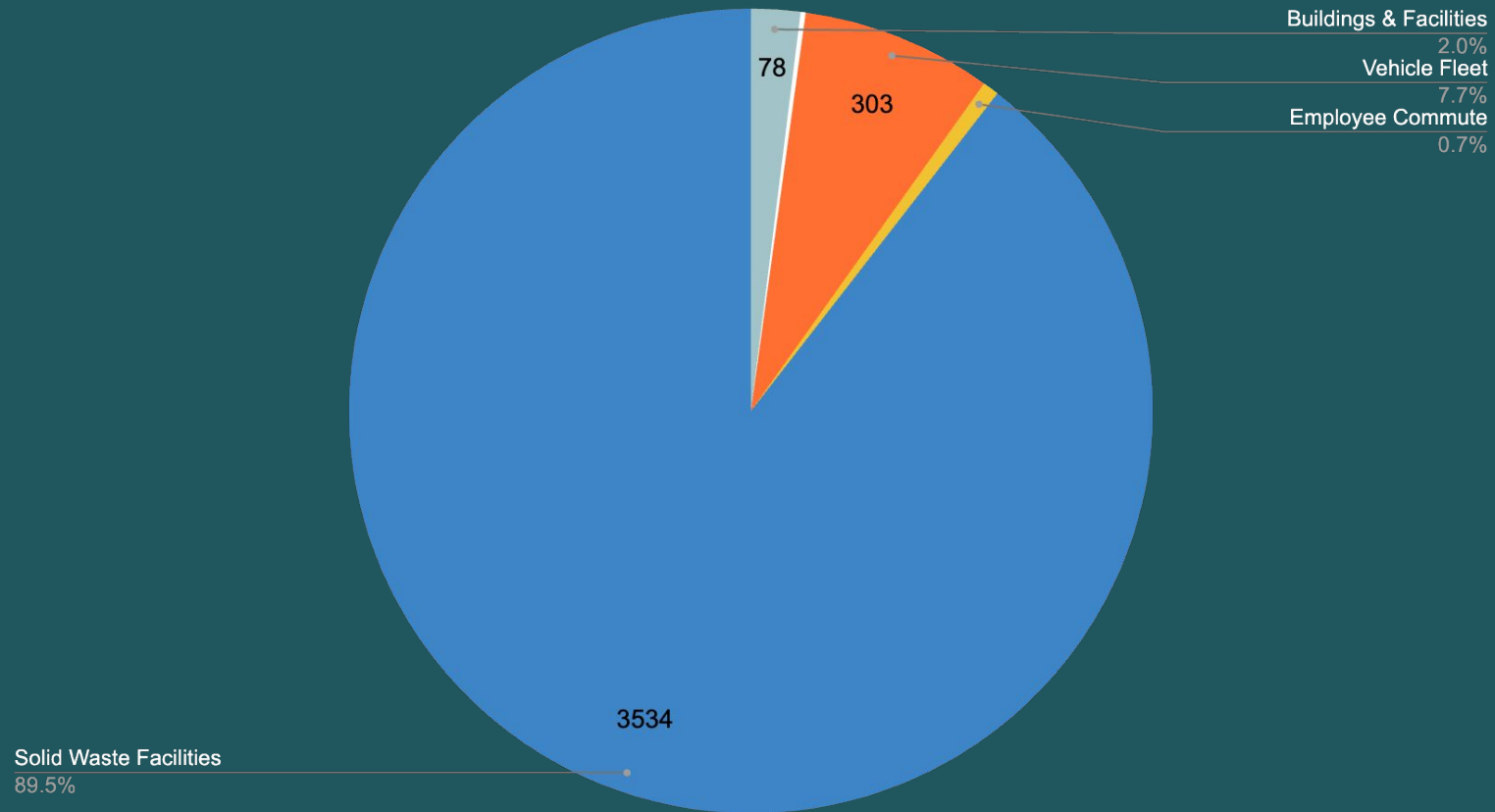
Department of
Environmental
Conservation

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1. Emissions Sector Pie Chart from GHG Inventory

Town of Rhinebeck 2019 Emissions by Sector



[Link to GO Inventory on Rhinebeck Website](#)

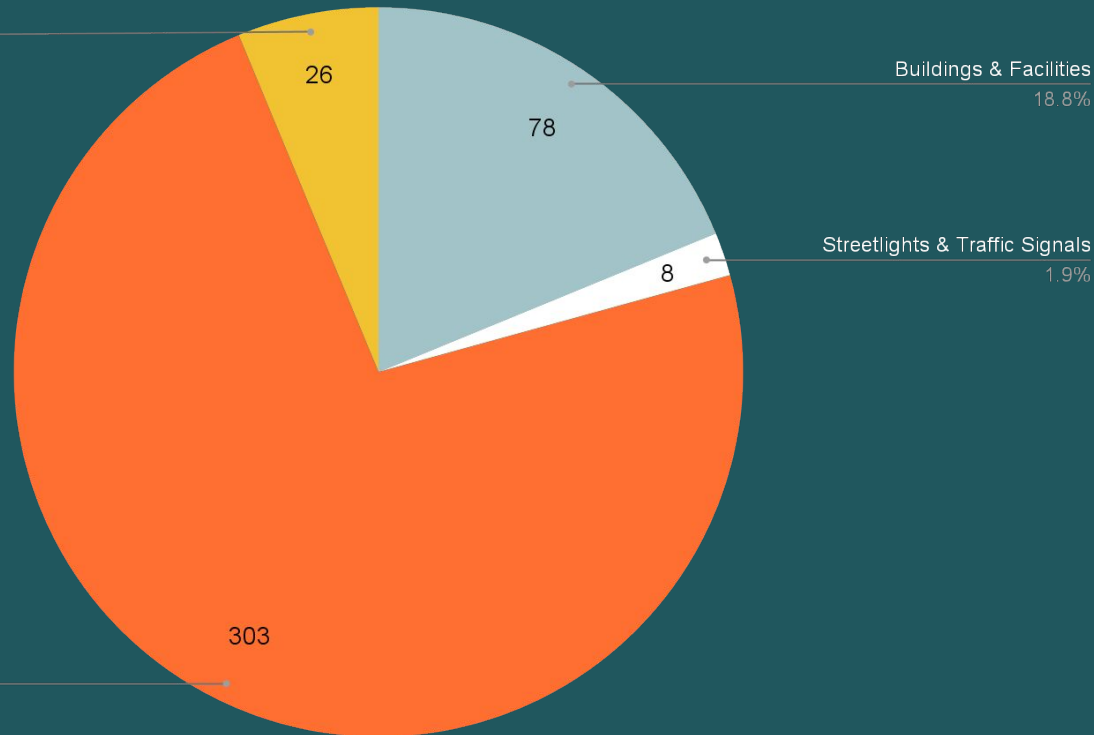
1. Emissions Sector Pie Chart from GHG Inventory

Town of Rhinebeck 2019 Emissions by Sector

(Excluding Solid Waste Facilities)

Employee Commute
6.3%

Vehicle Fleet
73.0%



Buildings & Facilities
18.8%

Streetlights & Traffic Signals
1.9%

[Link to GO Inventory on Rhinebeck Website](#)

2. GHG Emissions Reduction Goal + Mitigation Objectives

The Town of Rhinebeck has chosen to align its reduction goals with statewide goals. The Climate Leadership and Community Protection Act (CLCPA), signed into law on July 18, 2019, sets goals to reduce emissions to 40% below 1990 levels by 2030 and then to 85% below 1990 levels by 2050. When modeled in ClearPath, the emissions forecasting and reduction modeling software utilized by the Town of Rhinebeck, these percentages were further modified to 33% and 78%, given the energy reduction improvements New York State has already made to the grid since 1990.

3. Recommended Strategies Overview

VEHICLE FLEET

1. Adopt an Anti-Idling policy for municipal vehicles
2. Fleet efficiency policy - Prioritize EV or PHEV Purchases

BUILDINGS & FACILITIES

1. Upgrade HVAC equipment (Convert Facilities Space Heating to Heat Pumps)

NATURAL RESOURCES

1. Convert Land to low or no mow & replacing traditional grass with alternative covering plants

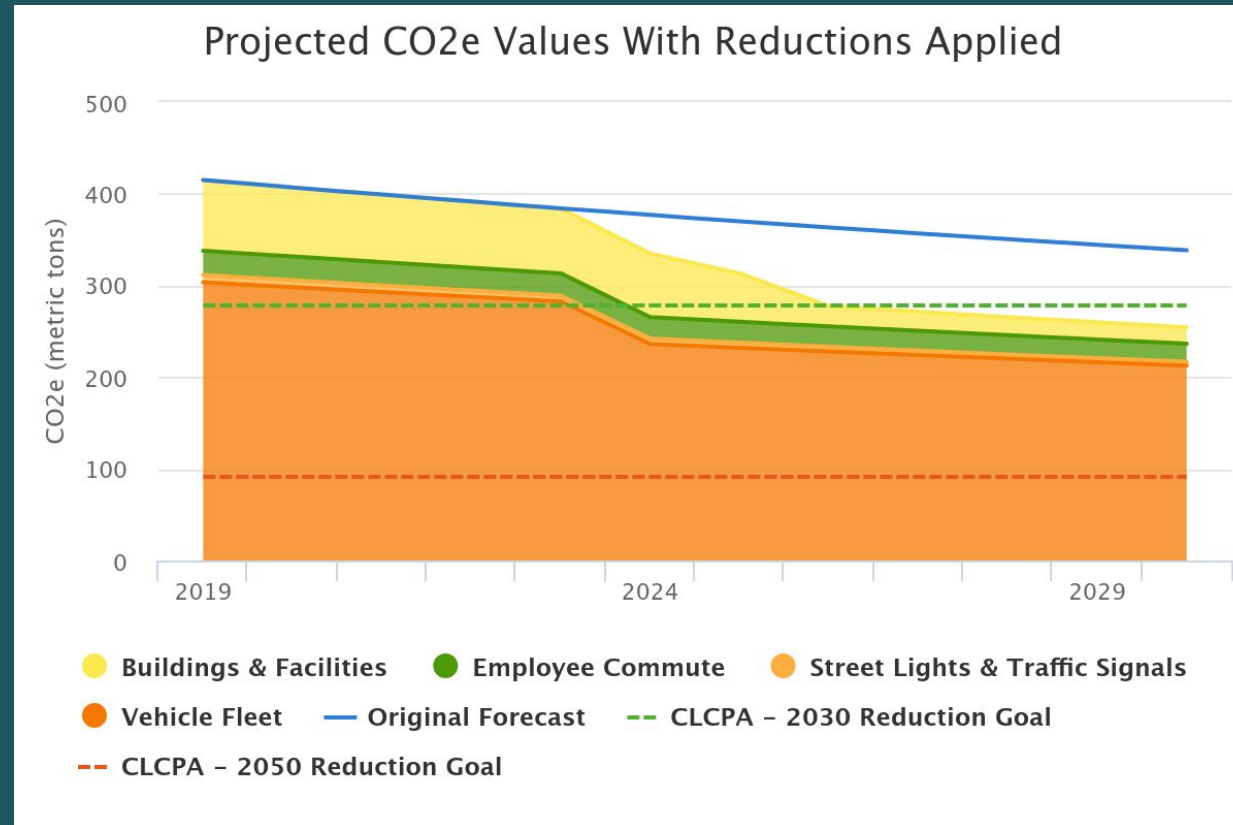
SOLID WASTE

1. Pass environmentally friendly purchasing policy
2. Install Solar array on Landfill
3. Install Biofilter on Landfill

4. Recommended Strategies Overview (Natural Resources)

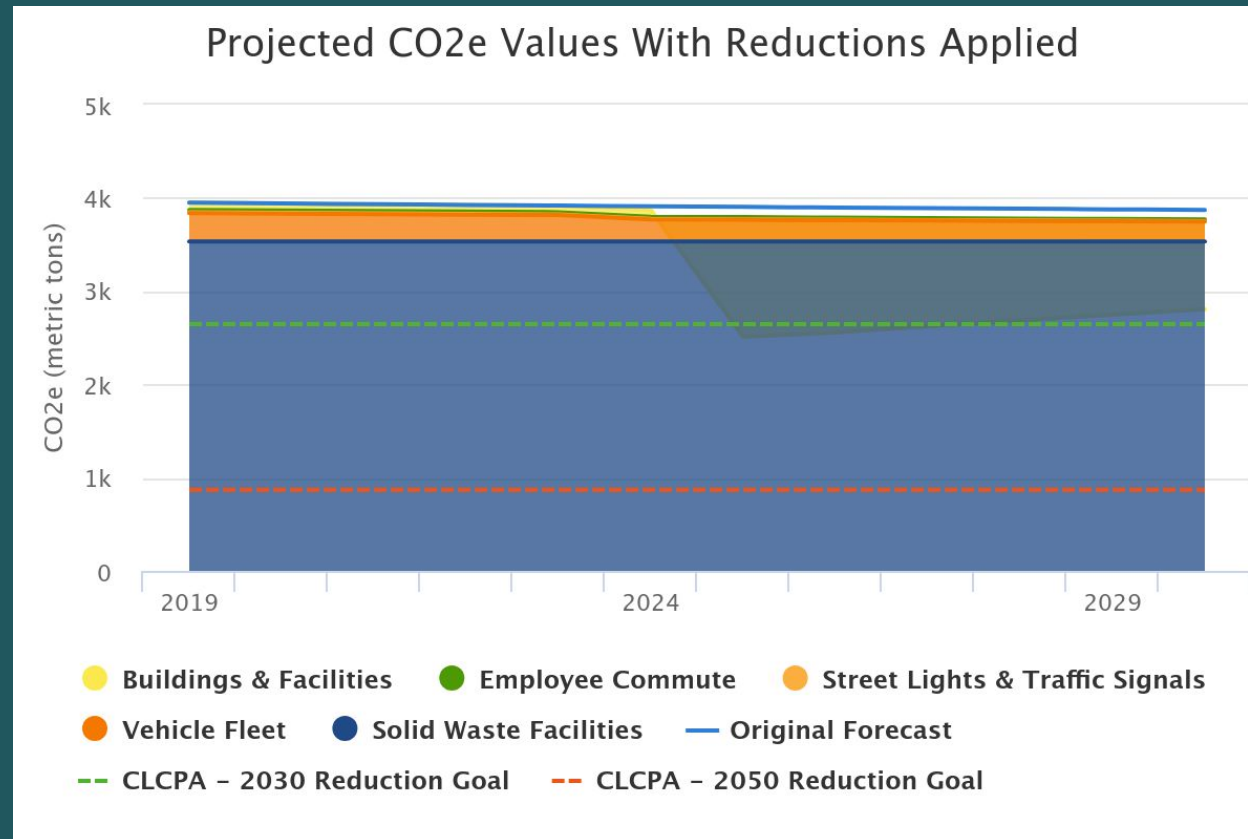
OBJECTIVE	Improve Land Management
STRATEGY	Convert Land to Low or No Mow + Replace traditional grass and non-native plantings
CO-BENEFITS	Potential Cost Savings on landscaping, Reduce Scope 1 emissions from landscaping equipment (air and noise pollution), aesthetic benefits
REDUCTIONS POTENTIAL	Low: Emissions from landscaping equipment, ecosystem benefits from native plantings
IMPLEMENTATION	-Consultation with departments to identify feasible spaces -Consultation with landscaper for alternative plantings native to Rhinebeck's environment -enact policy of no-mow and/or approve plantings
LEAD ACTORS	Maintenance Department, Department of Parks & Recreation
Key Performance Indicators	# of acres converted & # of hours of mowing/maintenance saved

6. Reduction Measures Graphs from ClearPath



Reduction Measures Modeled: Employee Commute Electrification, Vehicle Fleet Electrification, Heat Pump Conversion at three buildings

6. Reduction Measures Graphs from ClearPath



Reduction Measures Modeled: Employee Commute Electrification, Vehicle Fleet Electrification, Heat Pump Conversion at three buildings, landfill solar array

7. Implementation Plan with Priorities / Timeline

SECTOR	STRATEGY	2024	2025	2026	2027	2028	2029	2030
Buildings & Facilities	Upgrade HVAC equipment (Convert Facilities Space Heating to Heat Pumps)	x	x	x	x	x	x	x
Vehicle Fleet	Fleet efficiency policy - Prioritize EV or PHEV Purchases	x	x	x	x	x	x	x
Solid Waste	Install Biofilter on Landfill	x	x	x	x			
Solid Waste	Install Solar array on Landfill	x	x	x	x	x	x	x
Natural Resources	Convert Land to low or no mow & replacing traditional grass with alternative covering plants	x	x					
Vehicle Fleet	Adopt an Anti-Idling policy for municipal vehicles	x	x	x	x	x	x	x
Solid Waste	Pass environmentally friendly purchasing policy	x	x					

Strategies ranked in order of emissions potential, x denotes years where work on implementation is predicted

8. Draft Vision Statement

Lead by example through sustainable improvements to buildings, operations and municipal assets that both mitigate greenhouse gases and increase Rhinebeck's capacity to withstand and adapt to climate change.

Since Rhinebeck is participating in CAPI Adapt, our vision statement includes a recognition of resiliency/adaptation, which is also a requirement for points under CSC

10. Remaining Tasks - Next Steps

- Posting of Draft GOCAP to Municipal Website for Public Comment
- Presentation of GOCAP to Local Government
- Finalized GOCAP Document
- Official Adoption of GOCAP
- GOCAP uploaded to CSC portal



Thank You

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Acknowledgements

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Optional Outreach addressing Climate Equity an/or Disadvantaged Communities

Group Name	Type of Outreach	Stakeholders
Senior Council	Email to Council soliciting feedback with link to the Plan	Senior citizens who are often most affected by climate change.
Youth Council	Email to Council soliciting feedback with link to the Plan	Youth who are often most affected by climate change.
Affordable Housing Committee	February 2024	Equity issues associated with lack of affordable housing

EXAMPLE

Reminder of Strategy Co-Benefits

1. Cost / Saving Money

2. Enhancing Resource Security

> Reduce energy system strain as transition to renewable energy.

3. Creating Jobs

4. Improving Public Health





















5. Delivering Benefits to Frontline Communities

> Address vulnerable communities

4. Lead Actors and Success Metrics / KPIs

Strategy Number	Strategy	Lead Actor / Owner	Metric / KPI
T1-A	Right-size fleet: Create a vehicle pool to more effectively use and increase turnover of non-emergency vehicles	Village Manager	Total # of vehicles Departmental vehicles eliminated
T1-B	Replace sheriff patrol vehicles with hybrid pursuit rated sedans <ul style="list-style-type: none">Go from 12.9 to 34 mpg\$209,000 annual fuel savings fleetwideEstimated 4 year payback of initial cost difference	Police Dept	# of electric vehicles # of plug-in hybrid vehicles

5. Co-Benefits and Reduction Potential

Objective	Supporting Strategies	Co-Benefits	Reduction Potential
T1: Improve energy efficiency of government buildings	Upgrade <u>HVAC</u> equipment (Convert Facilities Space Heating to Heat Pumps)	  	  
T1: Improve energy efficiency of government buildings	Conduct <u>Energy Audits</u> of Government Buildings and implement recommendations (Retro-Commissioning)	  	 
T1: Improve energy efficiency of government buildings	Reassess and maintain <u>current heating system</u>	  	 
T1: Improve energy efficiency of government buildings	Install <u>light occupancy sensors</u>	  	

9. Public Outreach: Key Stakeholder Meetings

Meeting Name	Date	Stakeholders
City Council	December 2023	Cite Council, Mayor and members of the public
Internal Staff Meeting	January 2024	All municipal managers
Climate Smart Communities Task force	February 2024	CSC Task Force, members of the public
Conservation Advisory Committee	March 2024	CAC Members

Only Mandatory item needed is link to draft GOGHGI AND GOCAP on municipal web site w/email address for public comments / input. For example: gocapfeedback@gmail.com.