



# CITY OF PEEKSKILL

## Climate Action Planning Institute Cohort Presentation

March 7th, 2024

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



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# 1. Emissions Sector Pie from GHG Inventory

## 2019 Emissions by Sector

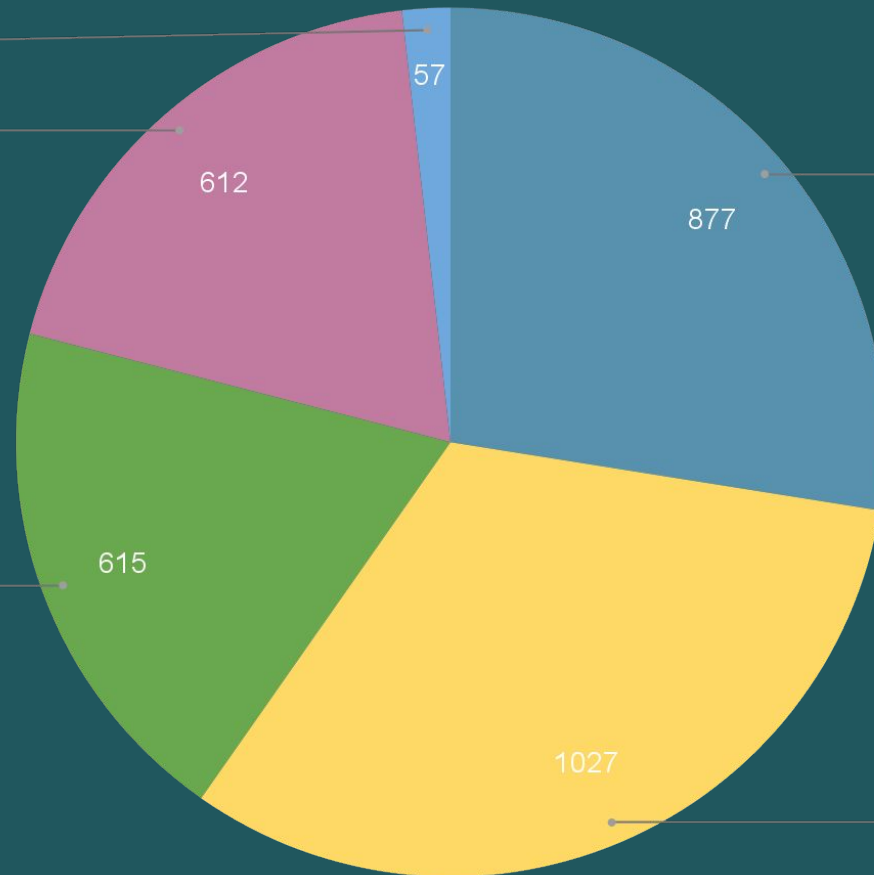
Streetlights & Traffic Signals  
1.8%

Water & Wastewater Treatment  
19.2%

Employee Commute  
19.3%

Buildings & Facilities  
27.5%

Vehicle Fleet  
32.2%



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

## 2. GHG Emissions Reduction Goal + Mitigation Objectives

Peekskill 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 City of Peekskill, 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 government vehicles
2. Fleet efficiency policy - Prioritize EV or PHEV Purchases
3. Install EV Infrastructure

### **EMPLOYEE COMMUTE**

1. Remote Work

### **BUILDINGS & FACILITIES**

1. Upgrade HVAC equipment (Convert Facilities Space Heating to Heat Pumps)
2. Install solar panels in relevant locations (Solar Photovoltaic Installation)

### **SOLID WASTE**

1. Pass environmentally friendly purchasing policy
2. Implement food waste recycling in municipal buildings / Reduction in government generated waste sent to landfill

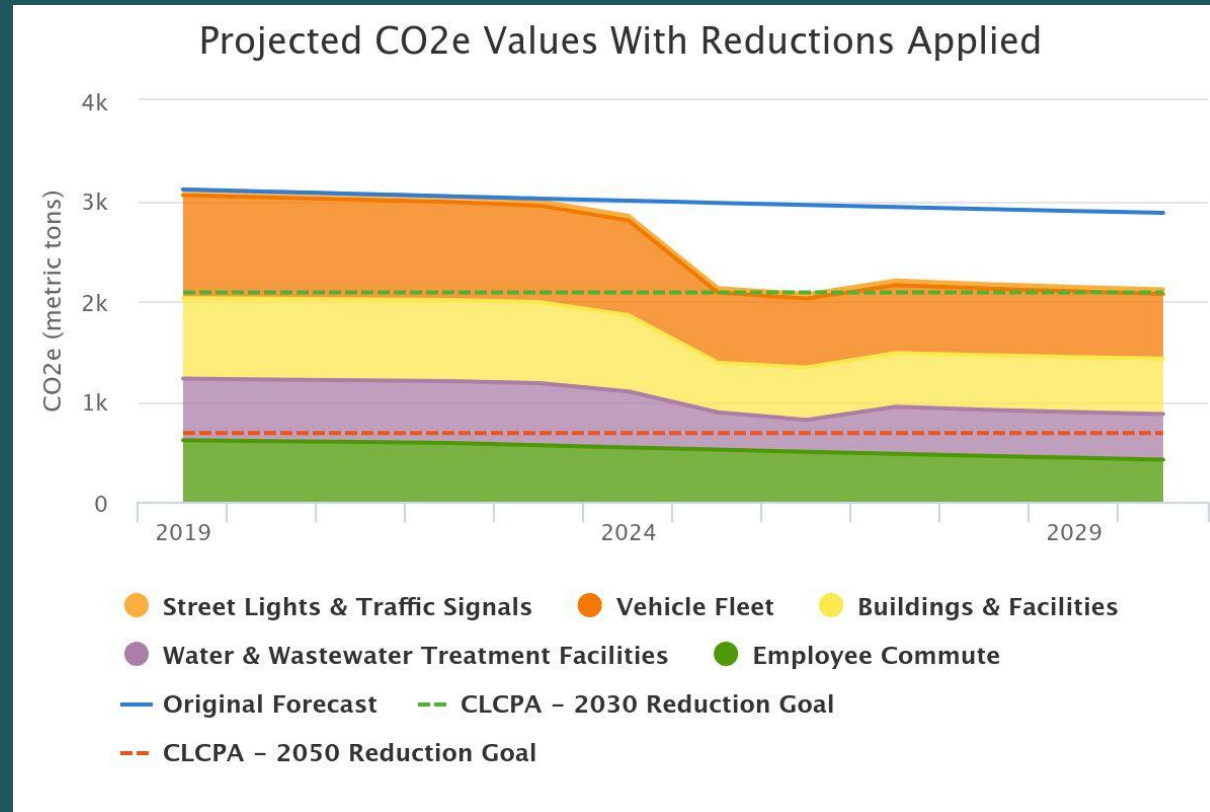
## 4. Recommended Strategies Overview (Buildings and Facilities)

<b>OBJECTIVE</b>	Use Renewable Energy for Government Operations
<b>STRATEGY</b>	Install solar panels in relevant locations (Solar Photovoltaic Installation). Installation of Rooftop and Parking Lot mounted PV panels at: Police Station, City Hall, Neighborhood Center, Paramount Theatre, Veterans Memorial Pool, Kitchen Incubator, Peekskill Fire Department
<b>CO-BENEFITS</b>	Enhancing Resource Security, Job Creation, Community Benefits
<b>REDUCTIONS POTENTIAL</b>	Medium: 81 MT CO <sub>2</sub> e (estimate for four installations)
<b>IMPLEMENTATION</b>	RFP published 2023 -> Bid Review 2024 -> Contractor Selection 2024 -> Agreement signed 2024 -> Construction beginning 2025 -> Project Completion 2025 or 2026
<b>LEAD ACTORS</b>	Department of Public Works, Department of Planning
<b>Key Performance Indicators</b>	# solar installations - specified by type (rooftop or parking lot) kwh electricity generated annually

## 4. Recommended Strategies Overview (Buildings and Facilities)

<b>OBJECTIVE</b>	Improve Energy Efficiency of Government Buildings
<b>STRATEGY</b>	Upgrade HVAC equipment (Convert Facilities Space Heating to Heat Pumps). Replacement of Heating Oil or Natural Gas based heating systems at Police Building, Paramount Theatre, Neighborhood Center, City Hall, Cortlandt Hook & Ladder with Air-Source heat pumps,
<b>CO-BENEFITS</b>	Job Creation, Community Benefits (air quality), Long-term Cost Savings
<b>REDUCTIONS POTENTIAL</b>	High: 212 MT CO2e
<b>IMPLEMENTATION</b>	2024 + 2025 Funding options research + Applications -> 2025 on Upgrades
<b>LEAD ACTORS</b>	Department of Public Works
<b>Key Performance Indicators</b>	# Systems Replaced, # Buildings removed from natural gas + heating oil use

## 6. Reduction Measures Graphs from ClearPath



Reduction Measures Modeled: Employee Commute Electrification, LED Streetlights, Heat Pump Conversion at four buildings, Solar PV installations at four facilities (more to come), Vehicle fleet electrification

## 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				
Buildings & Facilities	Install solar panels in relevant locations	x	x	x				
Solid Waste and Recycling	Implement food waste recycling in municipal buildings	x	x					
Vehicle Fleet and Employee Commute	Install EV Infrastructure	x	x					
Solid Waste & Recycling	Pass environmentally friendly purchasing policy	x						
Employee Commute	Remote Work	x						
Vehicle Fleet	Adopt an anti-idling policy for government vehicles	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 Peekskill's capacity to withstand and adapt to climate change.*

- Since Peekskill 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

# Acknowledgements

This GOCAP has been made possible by the work and support of Peekskill's Conservation Advisory Council, City Manager, and the Department of Planning

*CAPI is a program of the Hudson Valley Regional Council. This program has been funded in part through a grant to the County of Dutchess as lead applicant through the Climate Smart Communities Grant Program, Title 15 of the Environmental Protection Fund through the New York State Department of Environmental Conservation."*



# Thank You

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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"><li>Go from 12.9 to 34 mpg</li><li>\$209,000 annual fuel savings fleetwide</li><li>Estimated 4 year payback of initial cost difference</li></ul>	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	City 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

**EXAMPLE**

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](mailto:gocapfeedback@gmail.com).