



Climate Action Planning Institute Presentation to Dutchess Cohort City of Beacon

May 15, 2024

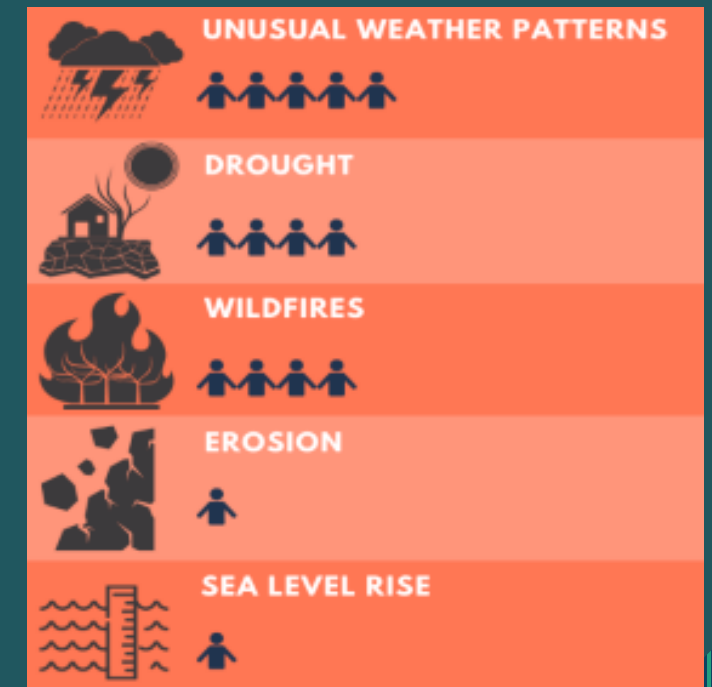
CAPI is a project of the Hudson Valley Regional Council and is funded by the DEC Climate Smart Communities Grant Program.



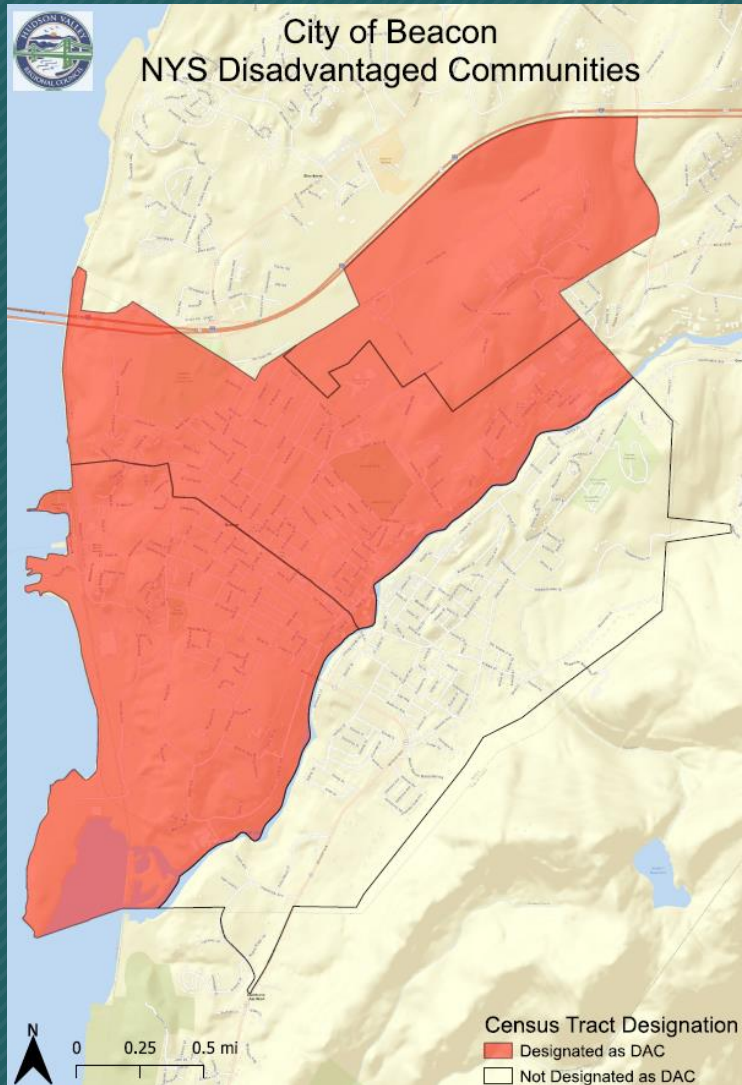
How Does Climate Change Affect Beacon?

Beacon lies a short distance from the mouth of the Hudson River, in a region with one of the greatest increases in sea level rise in the world. – NCA 2018

Hazards experienced in Beacon



Disadvantaged Community Zone (DAC): Past, Present & Future



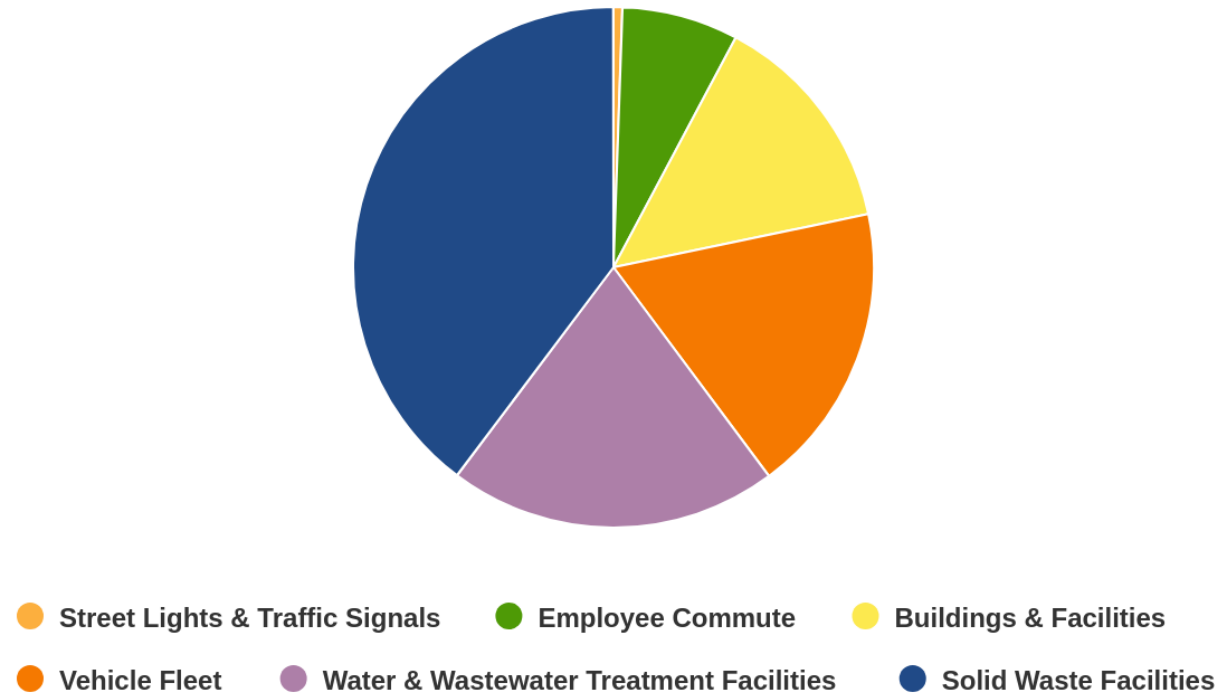
- Historical industrial pollution, chemical remediation
- High housing costs, especially for renters
- Heat islands (low tree cover)
- Long ride to nearest hospital
- Air pollution from I-84, including diesel pollution
- Risks from air quality, rising water, projected extreme heat

The waterfront tract has a “higher environmental burden than 98% of the state, making it especially susceptible to the effects of climate change.” –

[Highlands Current](#)

2021 GHG Emissions


CO2e By Category



Inventory report available on [City of Beacon website](#)


Public Outreach: Key Stakeholder Meetings

	Stakeholder Group	Outreach
Jan 2023-May 2024	Conservation Advisory Committee (CAC)	Provided monthly updates on CAPI
Jan 2024	City Council	Presented GHG inventory and overall planning, received feedback
Jan 2024	Community/Public	Sent email newsletter about GHG inventory results and overall planning
May 2024	CAC, Community/Public	Holding consultation period on draft report
Jun 2024	City Council	Will present CAP report



We thought you'd like to know!

City of Beacon Completes 4th Greenhouse Gas Inventory

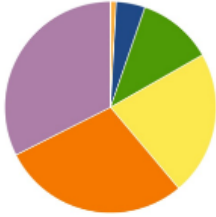


Like the rest of the world, the City of Beacon must determine how to achieve net-zero emissions before 2050 - part of a global effort to **limit warming to 1.5 degrees Celsius**. Local governments control many major sources of GHG emissions, so we have a strong role to play in collectively shifting to fossil-free systems.

But **how should we prioritize our actions?** To identify the most effective next steps, the City assessed the greenhouse gases being emitted from current municipal activities. The results - our 2021 GHG emissions inventory for government operations - are now available for public review, comments and questions.

For a **glimpse of the results**, see the pie graphic below. This shows how each type of City activity contributes to our overall emissions.

CO2e By Category



Read more in the inventory report, located on the City webpage for [Studies & Reports](#).

[Explore GHG Inventory](#)

The 2021 GHG inventory is the foundation of our **forthcoming Climate Action Plan**, which we are developing as part of the Dutchess County Climate Action Planning Institute (CAPI). We are receiving extensive assistance from the Hudson Valley Regional Council and ICLEI – Local Governments for Sustainability USA.

Get in touch to learn more or get involved in Beacon's climate smart efforts!

[Contact City of Beacon](#)

GHG Reduction Goal

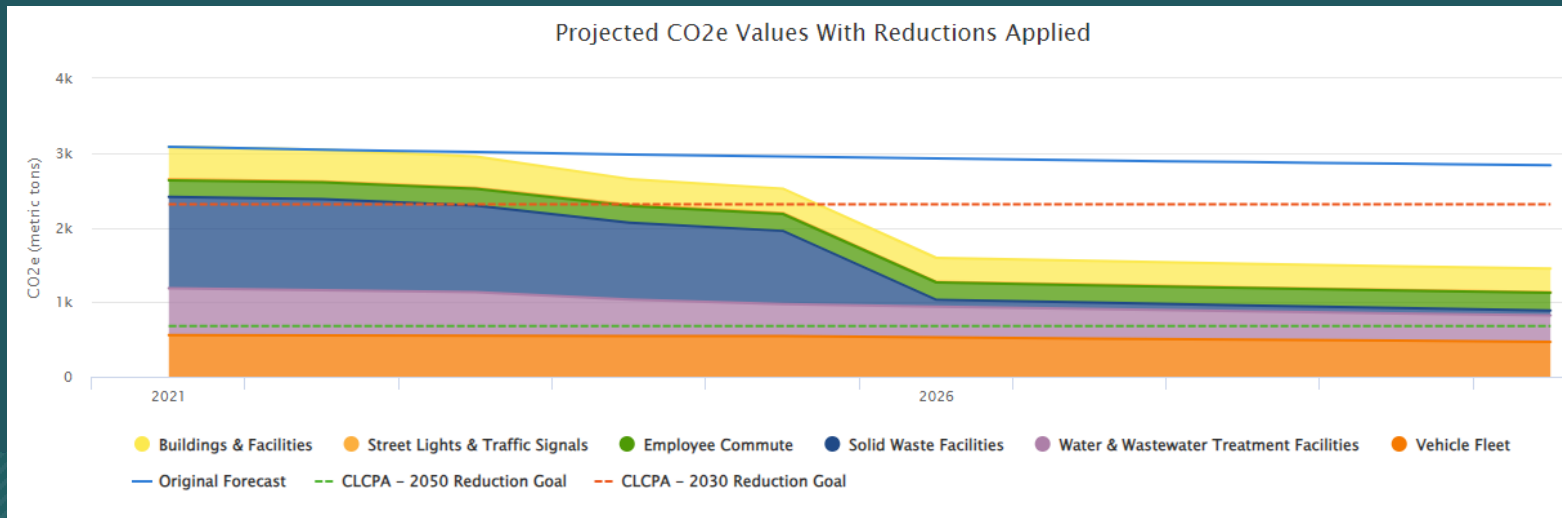
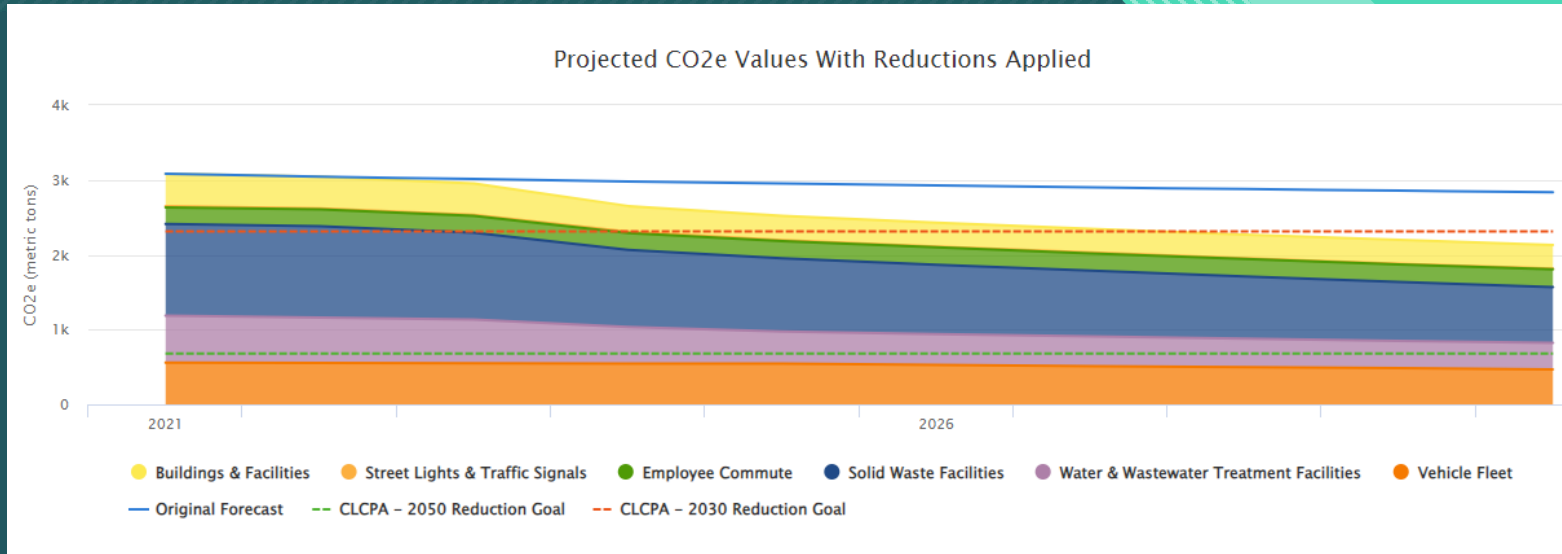
- New York State CLCPA (Climate Law): 40% before 2030 compared to the 1990 base year
- Beacon City Council: Achieve it faster
- Climate action target: 25% reduction from 2021 level

Recommended Strategies: 2023- 2030

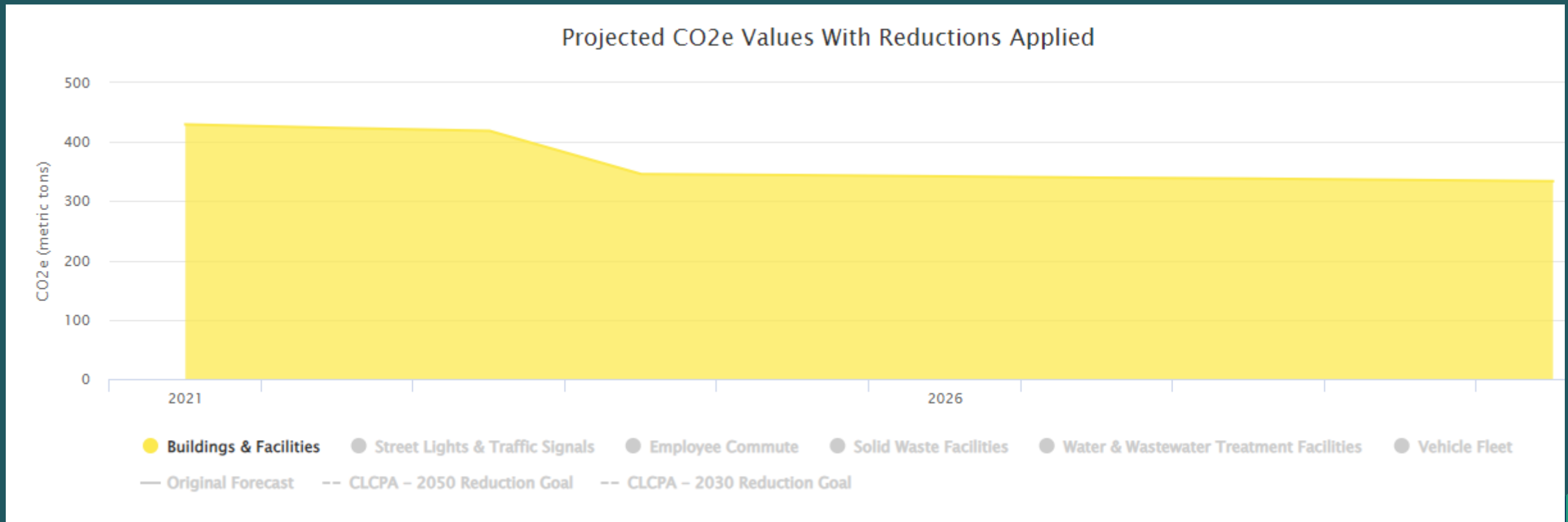
Vehicles
Buildings
Water and Wastewater
Solid waste
Monitoring/planning

2023	2024	2025	2026	2027	2028	2029	2030
Replace 2016 Chevy Impala with 2023 Ford Mach-E	Replace 2004 Chevy Impala with 2023 Chevy Bolt	Install additional EV chargers	Transition 5% of gas fleet to BEV	Transition 5% of gas fleet to BEV	Transition 5% of gas fleet to BEV	Transition 5% of gas fleet to BEV	Transition 5% of gas fleet to BEV
Conduct GHG inventory	Install geothermal heat pumps at Tompkins firehouse	Install rooftop solar at Highway Garage	Install rooftop solar on new portion of firehouse	Record each vehicle's mileage	Install additional EV chargers	Record each vehicle's mileage	Record each vehicle's mileage
	Close Mase Hook & Ladder	Install rooftop solar at wastewater office	Record each vehicle's mileage	Conduct GHG inventory	Record each vehicle's mileage		Update CAP: Check implementation, adjust plan as needed
		Convert wastewater office from oil heat to electric heat pumps	Update CAP: Check implementation, adjust plan as needed		Update CAP: Check implementation, adjust plan as needed		
		Install biofilters at Dennings landfill					
		Record each vehicle's mileage					

Projected Reductions



Impactful actions: Geothermal heat at fire station



Impactful actions: Biofilters for methane

Projected CO2e Values With Reductions Applied



Ongoing Monitoring & Planning

- Conduct GHG inventory every 4 years
- Update Climate Action Plan every 2 years & report on progress
- Institute annual vehicle mileage records
- Maintain membership in ICLEI and utilize technical support
- Coordinate with CAC/CSTF on community-wide GHG inventory and climate action plans
- Work to develop public-facing scorecard on CAP progress

Thank you

The City of Beacon is thankful to the Hudson Valley Regional Council (HVRC), particularly Mary Lambert, and the International Council for Local Environmental Initiatives (ICLEI), particularly Caroline Dickey.

It was truly valuable to be part of a cohort with other Dutchess municipalities. We thank the eight other teams who participated in this process along with Beacon for the exchange of information and experiences.



Contact Us

Faye Leone

beaconclimate@gmail.com

917 208 2239