

Climate Action Plan for the Town of Poughkeepsie

Dutchess County Climate Action Planning Institute

May 15, 2024

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



The Highlights

- Vision Statement
- Objectives
- Inventory
- Business As Usual
- Projections
- Emissions Reduction Strategies
- Climate Action Disclaimer
- Monitoring Plan



Stakeholder Engagement

- Core Team – met the end of January 2024 – Jamboard Exercise
 - Town Supervisor: Rebecca Edwards
 - Town Board Member, Ward 2 / Climate Smart Task Force Town Board Liaison: Barbara Laird
 - Climate Smart Task Force Chair: Susan Karnes Hecht
 - Director of Municipal Development: Mike Welti, AICP
 - Senior Planner / Climate Smart Task Force Staff Liaison: Kristen E. Taylor, AICP
- Stakeholders – three meetings over two days the end of February 2024
 - Auto Department
 - Building Department
 - Highway Department
 - Recreation Department
 - Sewer Department
 - Water Department

Vision Statement

To pursue an environmentally and economically sustainable future in order to create the ability for the Town to meet its needs without compromising the ability of future generations to meet their own needs.

The Town adopted its Comprehensive Plan Update in 2021. This is only part of that more detailed vision statement. The comprehensive plan update was guided by the following e's of sustainability: economy, equity, environment and energy. The Town's operations are not separate of the Town's town-wide vision for the application of these elements. The Town is also participating in CAPI-Adapt and may update this vision accordingly.

Objectives – By 2030:

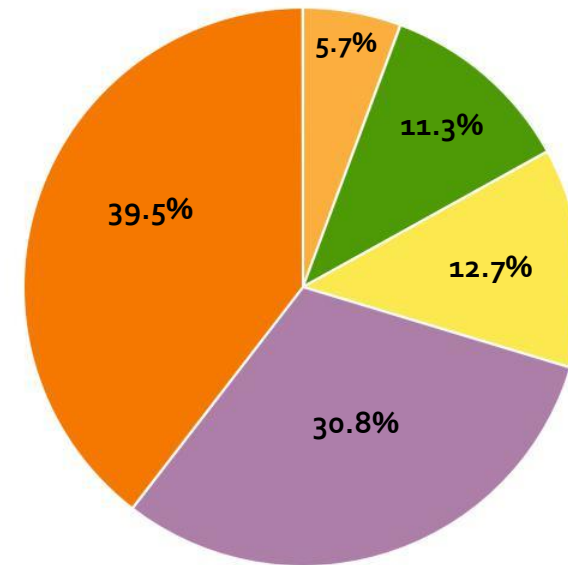
- Created and adopted a vehicle fleet inventory policy with reporting requirements
- Created and adopted a vehicle fleet efficiency policy with reporting requirements
- Replaced 10% diesel vehicle fleet with electric vehicles
- Replaced 50% of gas vehicle fleet with electric vehicles
- Replaced 75% of gas-powered maintenance equipment with electric-powered maintenance equipment*
- Retrofitted 5% of water pump station facilities with variable frequency drives
- Retrofitted 5% of sewer pump station facilities with variable frequency drives
- Conducted energy audits on all of the Town-owned buildings
- Replaced oil/propane heating in Town-owned buildings to heat pump technology

The Town aims to reduce its 2019 emissions by 40% by 2030.

TOP Government GHG Inventory

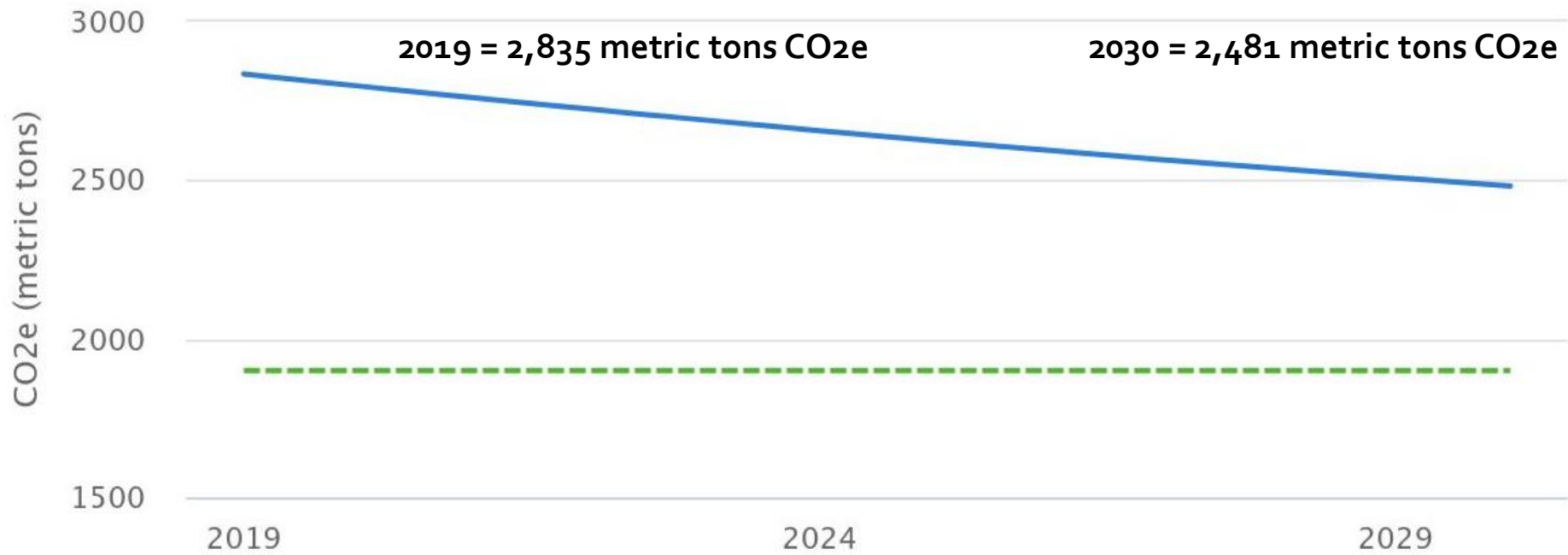
- **Vehicle Fleet**
 - 1,120 metric tons
- **Water and Wastewater**
 - 873 metric tons
- **Buildings and Facilities**
 - 360 metric tons
- **Employee Commute**
 - 319 metric tons
- **Street Lights**
 - 161 metric tons

CO2e By Category



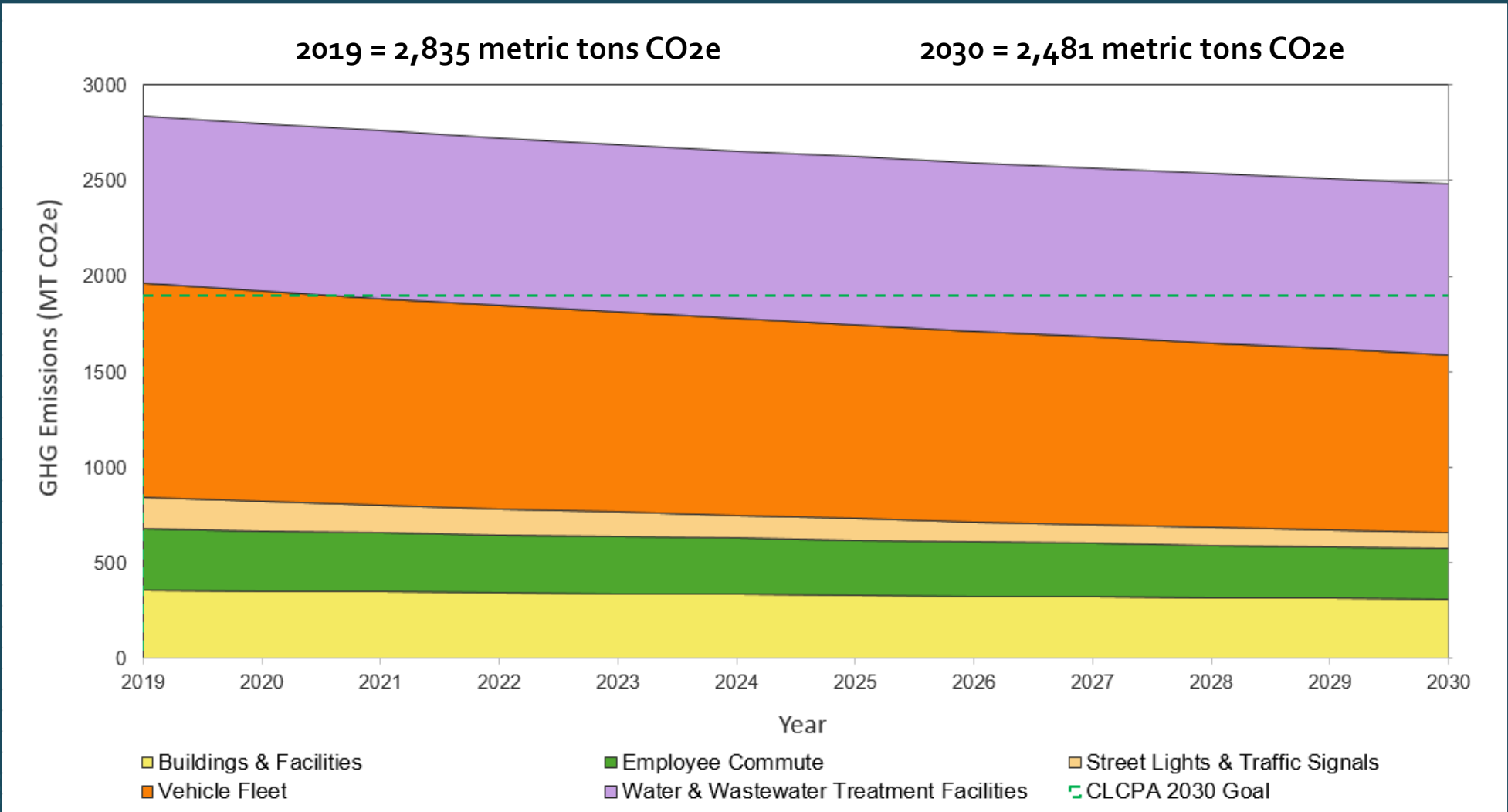
- Street Lights & Traffic Signals
- Employee Commute
- Buildings & Facilities
- Water & Wastewater Treatment Facilities
- Vehicle Fleet

Projections – Business As Usual



- Buildings & Facilities
- Vehicle Fleet
- Water & Wastewater Treatment Facilities
- Street Lights & Traffic Signals
- Employee Commute
- Original Forecast
- CLCPA - 2030 Reduction Goal
- CLCPA - 2050 Reduction Goal

Projections – Business As Usual



Vehicle Fleet – Emissions Reduction Strategies

- The objective is to reduce emissions from approximately 1,120 MTCO₂e to approximately 652 MTCO₂e in 2030. There are four (4) strategies proposed to aid in the management and reduction of this sector's emissions and they are:
 - ✓ To create and adopt a vehicle fleet inventory policy with reporting requirements
 - ✓ To create and adopt a vehicle fleet efficiency policy with reporting requirements
 - ✓ To reduce gas-fueled vehicle emissions by 50%
 - ✓ To reduce diesel-fueled vehicle emissions by 10%
- Though a subset of the Town's fleet, the Town's maintenance equipment the following strategy aid in Town fleet emissions reduction:
 - ✓ To replace 75% of gas-powered maintenance equipment with electric-powered maintenance equipment

Vehicle Fleet – Emissions Reduction Strategies

Example

FLEET STRATEGY	TO CREATE AND ADOPT A VEHICLE FLEET INVENTORY POLICY WITH REPORTING REQUIREMENTS.
	The Town does not currently have a methodology in place to track vehicles by department in one master vehicle fleet inventory list. Each Town Department Head would be in charge of managing its own department vehicle inventory, providing vehicle make, model, year, mileage, vehicle miles traveled, and so on. The Department Heads would report their respective department vehicle inventories to the Town Comptroller for a master inventory to be compiled and reported on to the Town Supervisor / Town Board.
STRATEGY GOAL	By establishing a fleet inventory policy, it holds the Town accountable for documenting each vehicle's impact on the Town's emissions.
ADMINISTRATOR	Town Department Heads to work with the Town Supervisor, Town Comptroller, and Town Auto Department to establish reporting criteria. The Town's Climate Smart Task Force undertook this process in 2018 and are able to provide insight.
TIMELINE	In 2024, the Town could draft a vehicle inventory policy and have it be adopted by the Town Board.
CO-BENEFITS	As older vehicles need to be phased out of the fleet, opportunities for electric vehicle purchase would be pursued. To be applied where appropriate. There is a high potential to save money, enhance resource security and improve public health.
KPI(s)	Timely knowledge about the Town fleet.

W&WW – Emissions Reduction Strategies

- The objective is to reduce emissions from approximately 873 MTCO₂e to approximately 802 MTCO₂e in 2030. There are four (4) strategies proposed to aid in the management and reduction of this sector's emissions and they are:
 - ✓ To create a sewer pump station inventory to support Town mapped locations
 - ✓ To create a water pump station inventory to support Town mapped locations
 - ✓ Retrofit 5% of sewer facilities with efficiency equipment
 - ✓ Retrofit 5% of water facilities with efficiency equipment

W&WW – Emissions Reduction Strategies

Example

W&WW STRATEGY	RETROFIT 5% OF SEWER FACILITIES WITH ENERGY EFFICIENT EQUIPMENT.
STRATEGY GOAL	The Town has over 40 sewer pump station facilities that it manages. Much of this technology is older and could be retrofitted and/or upgraded to more energy efficient technologies including use of variable frequency drives.
ADMINISTRATOR	Coordinated Town effort, but to include Town Supervisor, Town Comptroller, and Town Sewer/Wastewater Department Head. Support may be provided by the Town Engineering Department.
TIMELINE	By 2026, the Town will have prioritized the system’s needs accordingly and sought out estimates for energy efficient upgrades for the prioritized facilities by close of 2025. By 2026-2027, the Town will be looking at funding opportunities for said facilities. The Town continues to pursue grant opportunities where appropriate. In Spring 2024, the Town submitted an application for federal funding, for the US EPA Climate Pollution Reduction Grants (CPRG) that may initiate this energy efficient retrofitting work to be completed in order to meet the Town’s emissions reduction goals.
CO-BENEFITS	There is a high potential to save money, enhance resource security and improve public health.
KPI(s)	Less abrupt pull on the energy grid in high/peak demand situations.

B&F – Emissions Reduction Strategies

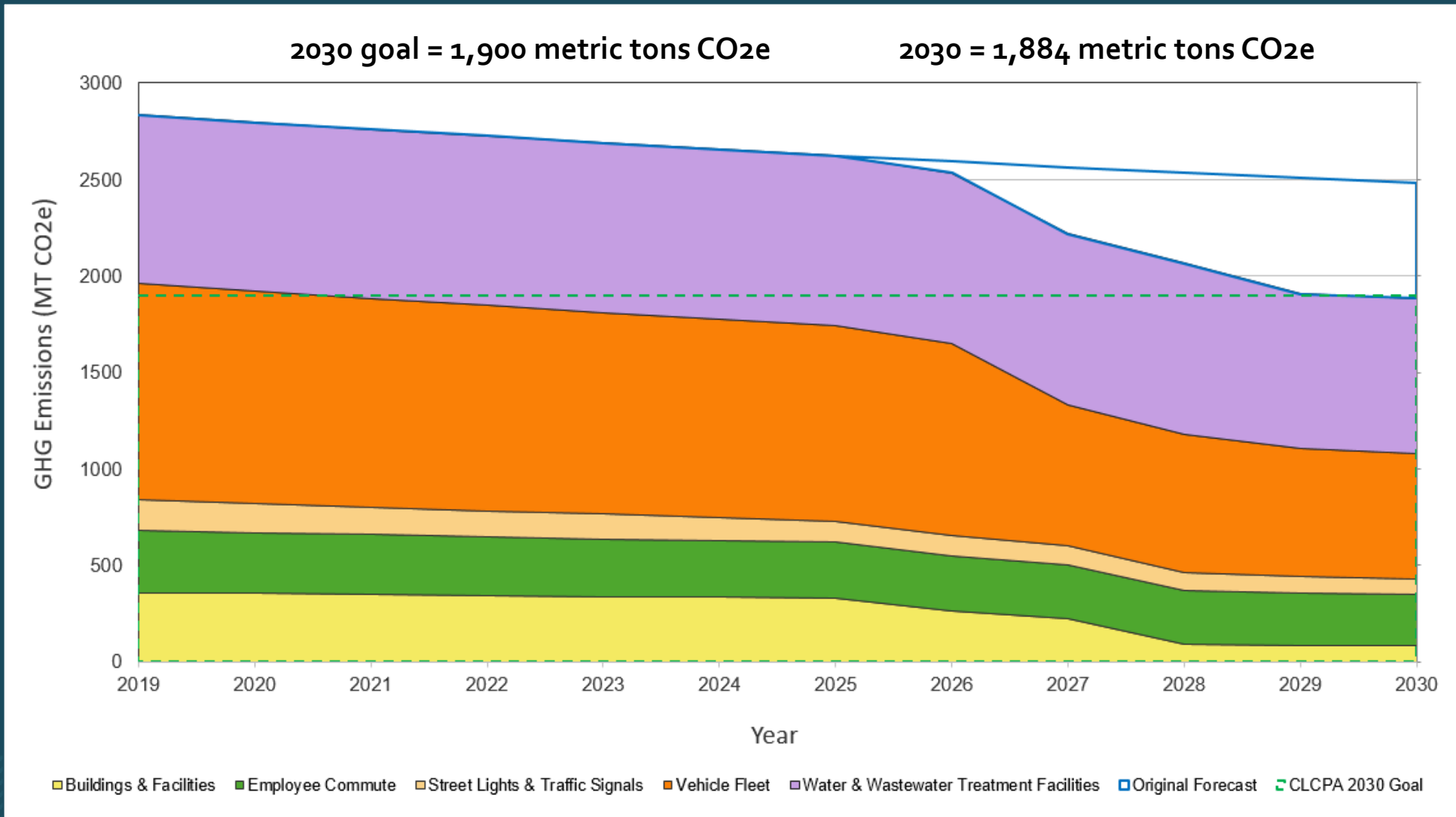
- The objective is to reduce emissions from approximately 360 MTCO₂e to approximately 82 MTCO₂e in 2030. There are three (3) strategies proposed to aid in the management and reduction of this sector's emissions and they are:
 - ✓ To create and adopt a tiered green building policy to account for new construction and redevelopment of any Town buildings and facilities
 - ✓ To conduct energy audits on all Town-owned buildings
 - ✓ To replace oil and propane heating in Town-owned buildings to heat pump technology

B&F – Emissions Reduction Strategies

Example

B&F STRATEGY	TO CREATE AND ADOPT A TIERED GREEN BUILDING POLICY TO ACCOUNT FOR NEW CONSTRUCTION AND REDEVELOPMENT OF ANY TOWN BUILDINGS AND FACILITIES.
STRATEGY GOAL	The Town will establish minimum requirements for increasing environmental and health performance of buildings, sites, and structures.
ADMINISTRATOR	Coordinated Town effort, but to include Town Supervisor and Town Building Department Head. Support may be provided by the Town Engineering Department and other Department Heads, depending on the buildings, sites, and structures under review. The US EPA offers an overview of various green building standards for which the Town could review and apply to Town buildings and facilities, as appropriate.
TIMELINE	Create and adopt policy in 2025-2026.
CO-BENEFITS	There is a high potential to save money, enhance resource security and improve public health.
KPIs	An increase in the number of energy efficient buildings and facilities.

Projections – Emissions Reductions Applied



Next Steps

- GOCAP posted to municipal website: June 2024
- Presentation of GOCAP to Town Board: July 2024
- Local government officially adopting GOCAP: July 2024
- GOCAP uploaded to CSC portal: August 2024
- Begin GOCAP Implementation: August 2024

- Disclaimer
- Monitoring Plan



**Climate Smart
Communities**
Certified Bronze

Acknowledgments

- Hudson Valley Regional Council
- ICLEI
- Town Supervisors
- Dutchess County
- Town of Poughkeepsie's Climate Smart Task Force
- Dutchess CAPI 2023-2024 Cohort Communities
- Town Departments
 - Assessing
 - Auto
 - Building
 - Clerk's Office
 - Comptroller's Office
 - Court's
 - Engineering
 - Highway
 - Legal
 - Planning
 - Police
 - Receiver of Taxes
 - Recreation
 - Sewer
 - Wastewater Treatment Facility
 - Water
 - Water Treatment Plant
 - Zoning



Town of
Poughkeepsie



Thank You

Town of Poughkeepsie Climate Smart Task Force
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