



Greenhouse Gas Inventory Results for the Village of Tarrytown

Westchester Climate Action Planning Institute Presentation for the Village Board of Trustees

September 13, 2023

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



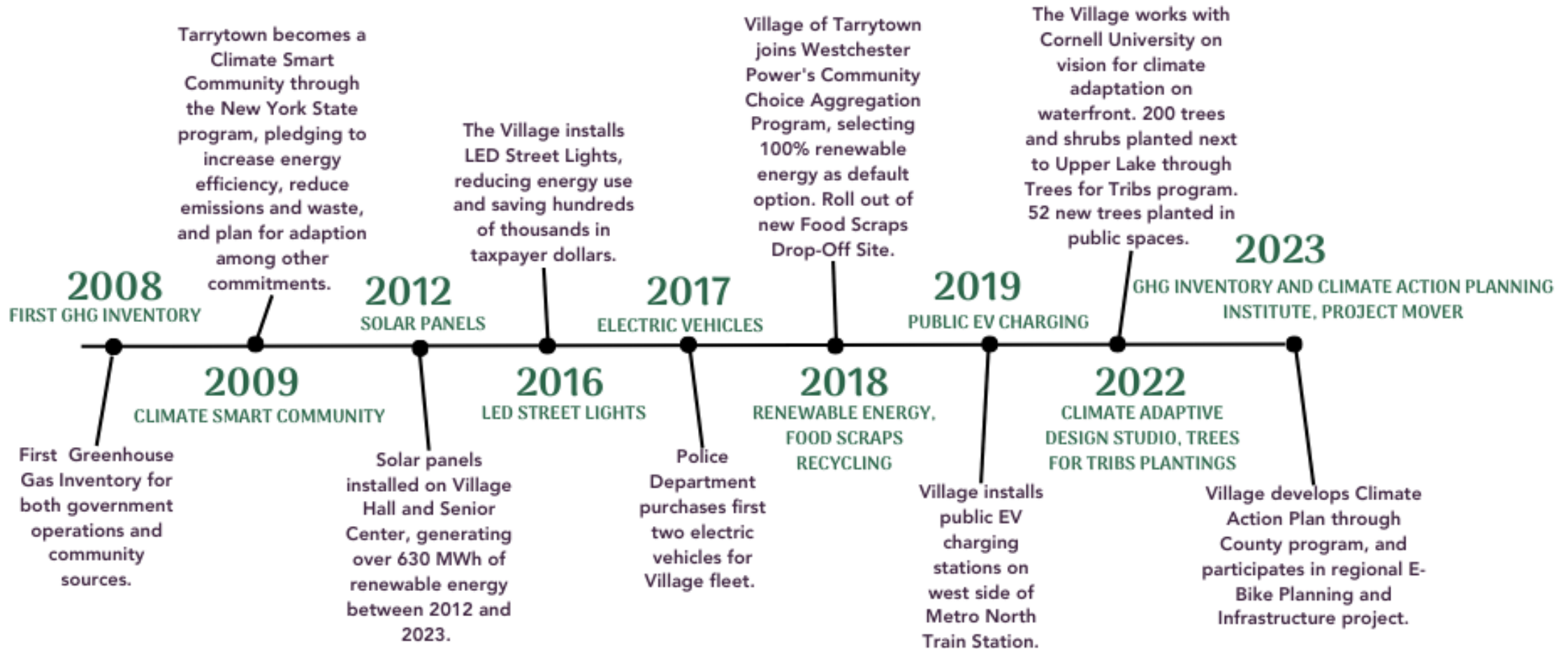


Background on the CAPI Program

- In 2019, the Village was selected as one of eight Westchester County municipalities to participate in a grant-funded Climate Action Planning Institute (CAPI) for government operations sponsored by the DEC's Climate Smart Communities program.
- The Hudson Valley Regional Council is coordinating the Institute for Westchester County working with consultants from ICLEI – Local Governments for Sustainability.
- The GHG Inventory is Phase 1 of the Climate Action Planning Institute (CAPI).
- Data collection for the GHG Inventory began in Spring 2023. Dean Gallea, Co-Chair of TEAC has led the data collection effort working with TEAC volunteer, Meghan McClane, while the Village Administrator's Office has served as the point of contact with department personnel to help gather the data, and to write the GHG Inventory report.



Climate Actions in Tarrytown



*This is an overview and not all-inclusive

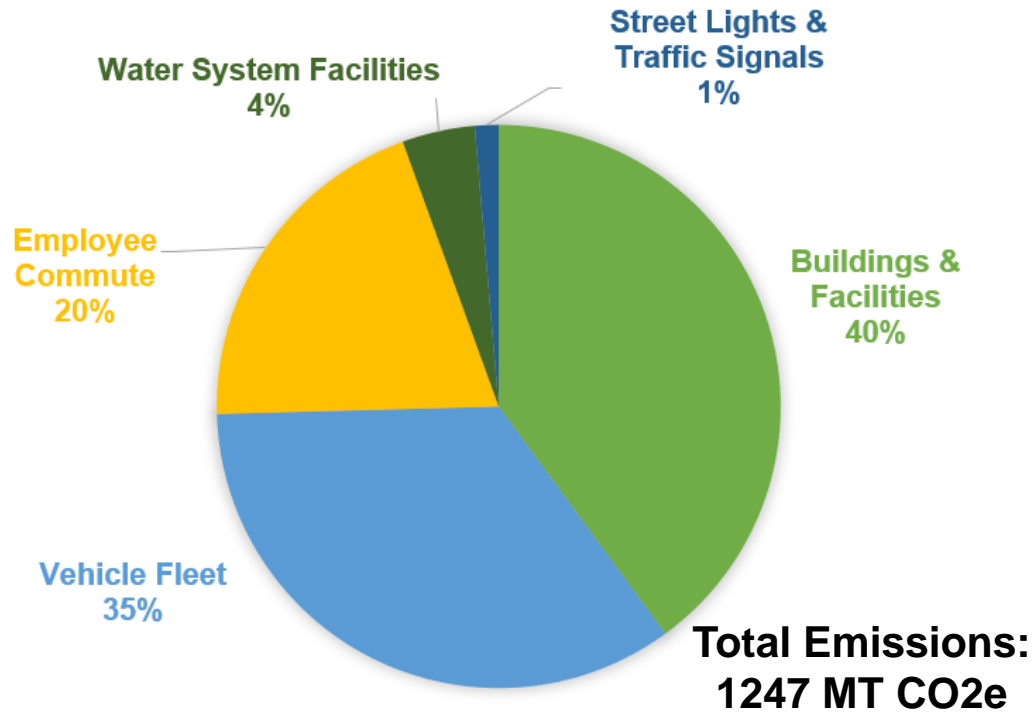


Background on the Inventory

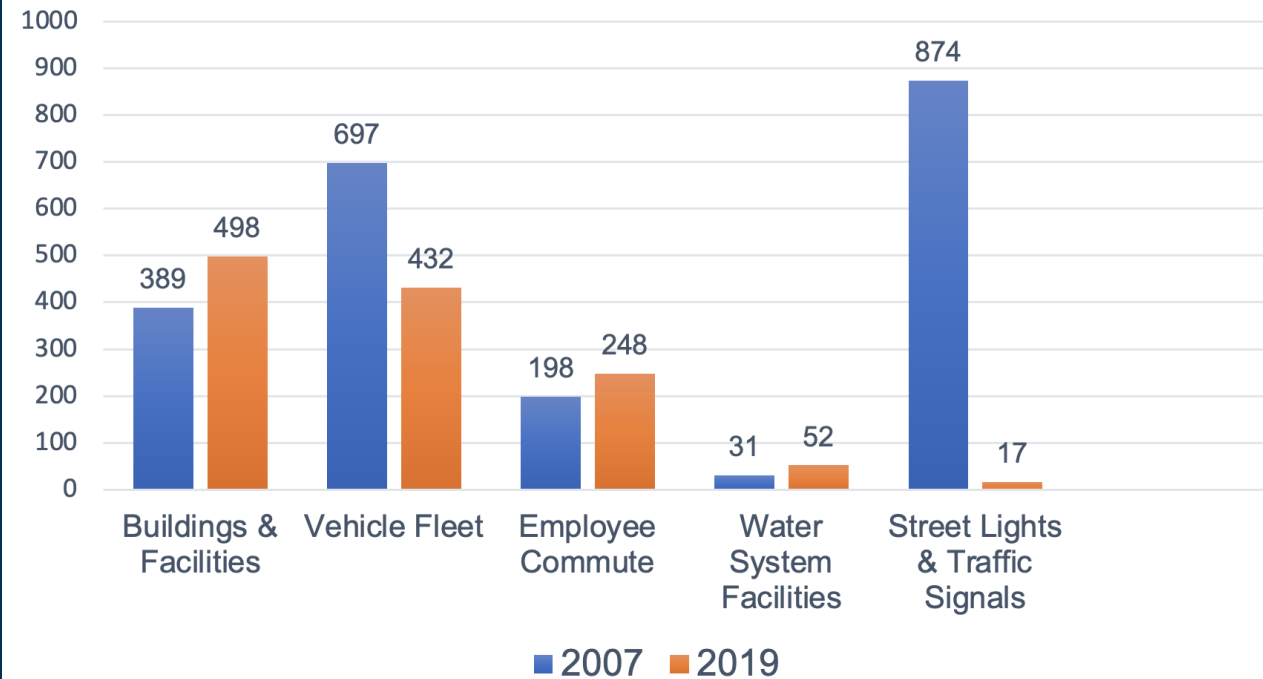
- Baseline Year: 2019
- **Sectors included:** Buildings and Facilities, Vehicle Fleet (including Senior Bus), Employee Commute, Water System, Street Lighting
- Sectors not included: Solid Waste, Wastewater Treatment, Refrigerants
- Used 2007 GHG Inventory for comparison. Also an ICLEI-based inventory. Tried to follow similar methodology for data collection, acknowledged differences between datasets in report.

Notes on the Emissions by Sector

**GOVERNMENT OPERATIONS EMISSIONS
BY SECTOR - 2019**

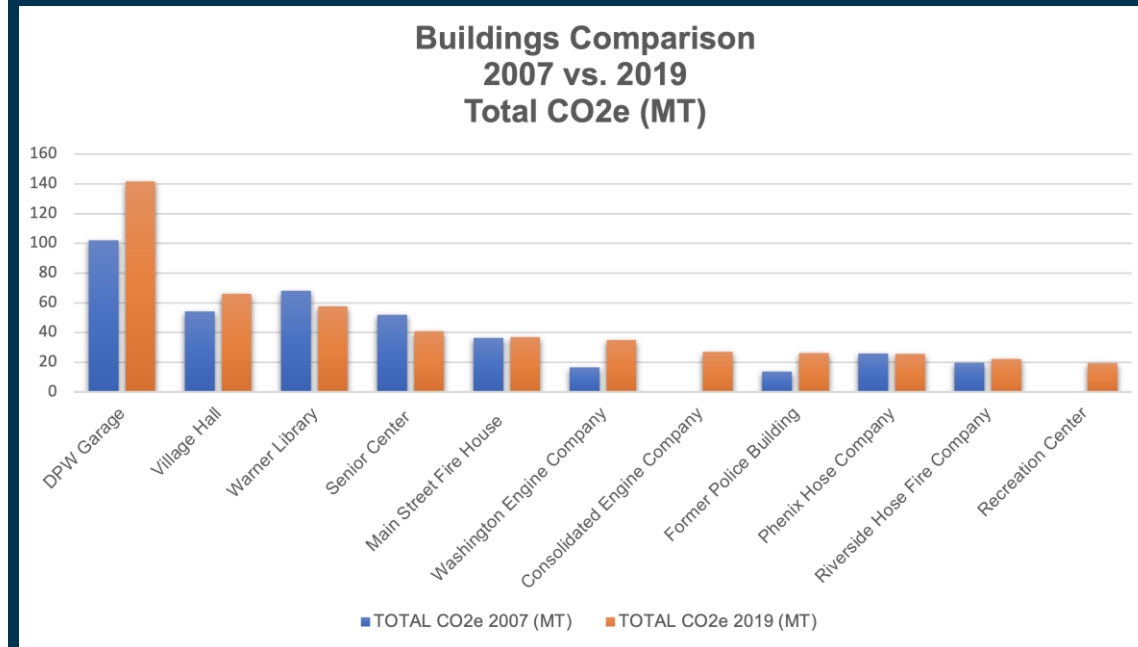


**Carbon Emissions
Comparison: 2007 and 2019**



Notes/Comments on the Emissions by Sector

Buildings and Facilities



Buildings and Facilities: 2007 vs 2019

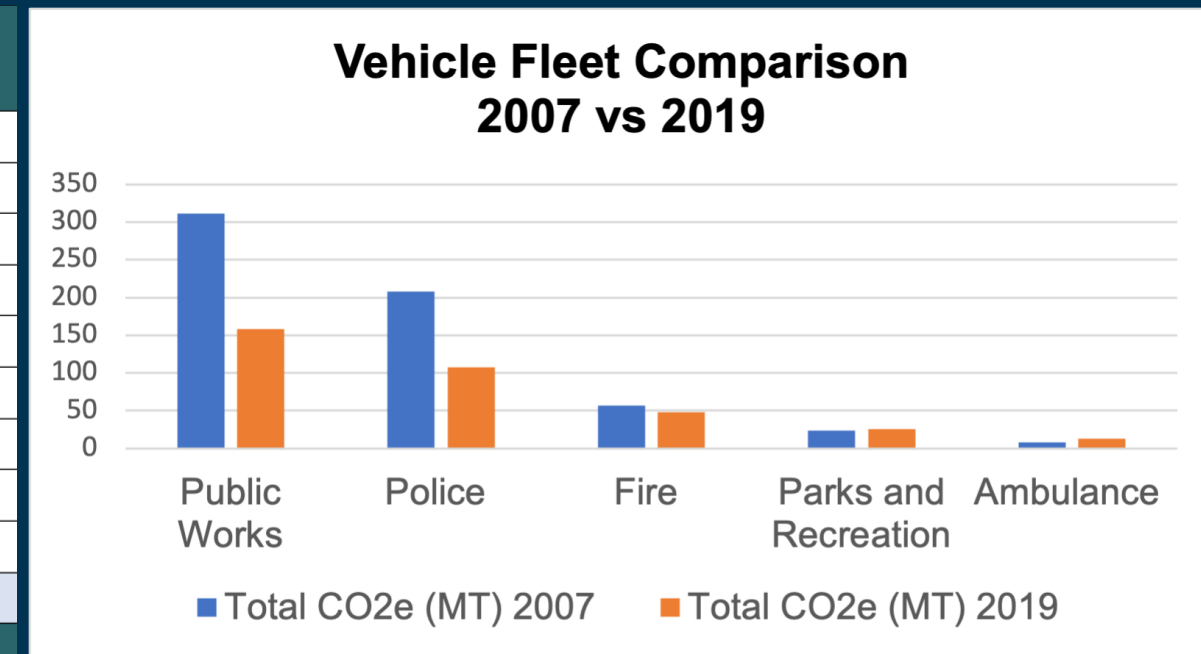
Buildings	Total MTCO2e 2007	Total MTCO2e 2019	MTCO2e from Gas 2007	MTCO2e from Gas 2019	MTCO2e from Electricity 2007	MTCO2e from Electricity 2019
DPW Garage	102.17	142.24	100.91	136.83	1.26	5.42
Village Hall	54.36	66.15	12.04	50.54	2.2	15.61
Warner Library	68.04	57.72	67.31	48.08	0.72	9.64
Senior Center	51.89	42.96	50.86	38.20	1.02	4.76
Main Street Fire House	36.42	36.94	35.32	33.79	1.1	3.15
Washington Engine Company	16.67	35.22	15.92	31.97	0.75	3.25
Consolidated Engine Company		27.10		24.37		2.80
Phenix Hose Company	25.83	25.74	24.81	24.16	1.02	1.58
Riverside Hose Fire Company	19.66	22.30	18.46	20.27	1.2	2.03
Recreation Center		19.31		12.66		6.69
Former Police Building	13.73	26.32	12.62	19.57	1.1	6.75
Skate Shack		0.75				0.75
Patriots Park Stone Shed		0.02				0.02
EV Charging Station		0.37				0.37
Total:	388.77	498.9	338.25	440.45	10.37	58.44
Total Building Emissions 2007	389	Total Building Emissions 2019	499			



Notes/Comments on the Emissions by Sector

Vehicle Fleet

Vehicles by Department	Fuel or source	2019 Usage (gallons)	2019 Emissions (MTCO _{2e})
DPW	Diesel	14,237.00	145.36
	Gas	10,612.00	93.17
Fire Department	Diesel	3,162.00	32.28
	Gas	1,788.00	15.70
Parks Department	Diesel		1.83
	Gas	1,459.00	12.81
Police Department	Gas	12,210.00	107.20
Ambulance Corps	Gas	1,499.00	13.16
Senior Van (Transit)	Gas	1,277.00	11.21
Total Usage		46,244.00	
Total fleet vehicle emissions			432.73



Notes/Comments on the Emissions by Sector

Employee Commute

- Employee Commute emissions increased from 198 MTCO₂e to 248 MTCO₂e between 2007 and 2019 despite the fact that the Village had 99 employees in 2007 versus 93 employees in 2019.
- The number of Light Trucks and SUVs used for commuting increased, but more significantly, annual vehicle miles traveled more than tripled, increasing from 164,964 miles traveled annually to 556,477.
- 36% of respondents demonstrated openness to considering alternative forms of transportation.

Employee transit mode the majority of the time:

87% 10% 2% 2%

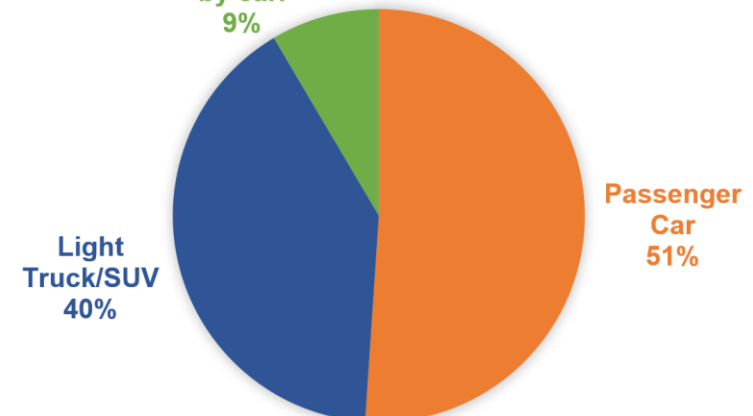


Employee transit mode at least once per month:

4% 2%



I do not regularly commute by car.
9%



NEXT STEPS

- Establish the Climate Action Plan for Government Operations Task Force
- Consider a target for emissions reduction by 2050.
- Investigate actions and projects to help reduce emissions from government operations and include them in the Climate Action Plan.
- Set up systems for periodic monitoring.



Acknowledgements / Thanks

- **County:** Westchester County Executive George Latimer and Peter McCartt of the Office of Sustainability for taking the lead on this project and giving Tarrytown this opportunity.
- **HVRC:** Mary Lambert and Team for excellent guidance, hand holding, responsiveness and good information
- **Tarrytown TEAC:** Dean Gallea, Co-Chair of TEAC, spearheaded the project, and worked closely with volunteer Meghan McLane on data collection and work with the ICLEI ClearPath tool
- **Tarrytown staff:** Multiple employees in the Public Works Department, the Treasurer's Office and the Building Department contributed time and energy to data collection efforts.
 - THANKS TO ALL INVOLVED PARTIES!



Thank You