

Croton-on-Hudson Community Greenhouse Gas Emissions Inventory

February 2020

An essential component in assessing the Village of Croton-on-Hudson's emissions baseline is completing the community greenhouse gas (GHG) emissions inventory. For this report, Croton is utilizing baseline data from 2010 as reported in the 2012 Mid-Hudson Regional Greenhouse Gas Inventory, which is posted at https://www.crotononhudson-ny.gov/sites/g/files/vyhlf441f/uploads/midhud_community_ghg_inventory2012.pdf. See its Table 32 on its page 51 for the Croton data used for this inventory.

That inventory, conducted by ICF International for the New York State Energy Research and Development Authority (NYSERDA), reports on community-level emissions of various sectors in metric tons of carbon dioxide equivalent (MTCO₂e). This data is meant to provide a baseline which may be used to measure future progress in reducing the broader community's collective emissions. In order for the inventory to be valid for submission, it must be completed within 5 years of submission; this inventory was completed in Spring 2020.

The Village of Croton's community inventory shows that the largest emitting sector is the built environment (Residential, Commercial, Industrial) which collectively accounts for 40,197 MTCO₂e, or approximately 50% of total community emissions (see Table 1). As shown in Table 1, the residential sector is the largest GHG emitter within the built environment. The second greatest contributor to Croton's emission profile is transportation, accounting for 33,425 MTCO₂e, or about 41% of the overall GHG emissions in 2010 (Figure 1). When combined, transportation and the built environment are over 90% of the Village's community-level emissions.

Both Industrial Processes and Energy Supply produce moderate emissions, producing 2,995 and 2,721 MTCO₂e respectively in 2010 (Table 1). The Wastewater Treatment and Solid Waste sectors produce minimal GHG emissions, while the emissions from the Agricultural sector are negligible for the purposes of this inventory.

Table 1. This table shows the greenhouse gas emissions in metric tons of carbon dioxide equivalent (MTCO₂e) for the Village of Croton-on-Hudson, NY in the year 2010, as reported in the 2013 Mid-Hudson Regional Greenhouse Gas Emissions Inventory.

Sector	MTCO ₂ e
Residential	23,628
Commercial	15,873
Industrial	696
Mobile Energy	33,425
Solid Waste	468
Wastewater Treatment	785
Industrial Processes	2,995
Agriculture	152
Energy Supply	2,721
Total	80,744

Figure 1: This pie chart shows the proportion of total greenhouse gas emissions that each emissions category accounted for in the 2010 year for the Village of Croton-on-Hudson, NY as reported in the 2012 Mid-Hudson Regional Greenhouse Gas Emissions Inventory.

