

Hastings-on-Hudson Community Greenhouse Gas Emissions Inventory

Fall 2019

An essential component in assessing the Village of Hastings-on-Hudson's emissions baseline is completing the community greenhouse gas (GHG) emissions inventory. For this report, Hastings is utilizing baseline data from 2010 as reported in the 2012 Mid-Hudson Regional Greenhouse Gas Inventory¹. This 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 can 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 Fall 2019.

The Village of Hastings' community inventory shows that the largest emitting sector is the built environment (Residential, Commercial, Industrial) which collectively accounts for 38,250 MTCO₂e, or approximately 51% of total community emissions (Table 1). As shown in Table 1, the residential sector is the largest GHG emitter within the built environment. The second greatest contributor to Hastings' emissions profile is transportation, accounting for 29,787 MTCO₂e, or about 40% 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, with each producing around 2,900 MTCO₂e in 2010 (Table 1). The Wastewater Treatment and Solid Waste sectors produce minimal GHG emissions, while the emissions from the Agriculture sector are negligible for the purposes of this inventory.

¹ https://www.dec.ny.gov/docs/administration_pdf/midhudghginventory.pdf

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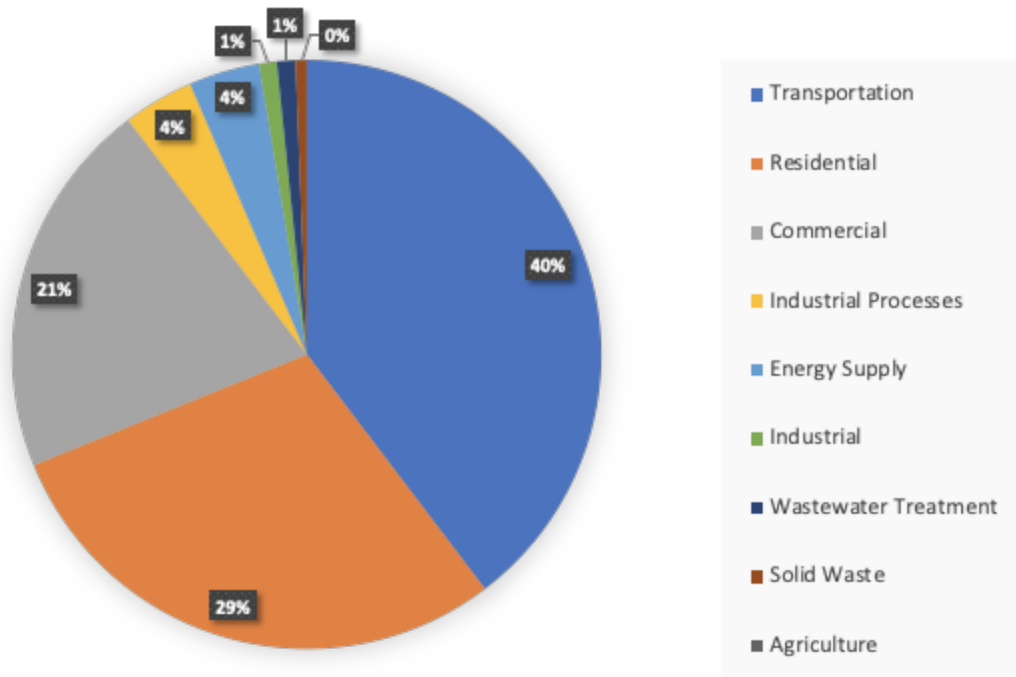


Figure 1: This pie chart shows the proportion of total greenhouse gas emissions each emissions category accounted for in the 2010 year for the Village of Hastings, NY, as reported in the 2012 Mid-Hudson Regional Greenhouse Gas Emissions Inventory.

Table 1: This table shows the greenhouse gas emissions in metric tons of carbon dioxide equivalent (MTCO₂e) for the Village of Hastings, NY in the year 2010, as reported in the 2012 Mid-Hudson Regional Greenhouse Gas Emissions Inventory.

| Sector | MTCO ₂ e |
|------------------------------|---------------------|
| Transportation | 29,787 |
| Residential | 21,934 |
| Commercial | 15,595 |
| Industrial Processes | 2,913 |
| Energy Supply | 2,925 |
| Industrial | 721 |
| Water and Wastewater Pumping | 764 |
| Solid Waste | 455 |
| Agriculture | 4 |
| Total | 75,098 |