



# CITY OF HAYWARD

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## Cover Memo

**File #:** ACT 24-014, **Version:** 1

**DATE:** March 11, 2024

**TO:** Council Sustainability Committee

**FROM:** Director of Public Works

### SUBJECT

2022 Greenhouse Gas Emissions Inventory

### RECOMMENDATION

That the Council Sustainability Committee (CSC) reviews and comments on this report.

### SUMMARY

The Council-adopted General Plan includes greenhouse gas (GHG) emission reduction targets for the Hayward community. This report provides the results of the calendar year 2022 inventory and compares it to the previous eight inventories. Table 1 summarizes the emissions totals for six sectors - electricity, natural gas, transportation (includes public transit), off-road vehicles, waste, and water and wastewater. Emissions are displayed in metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>e). The table shows that as of 2022, emissions have been reduced by 37.3% since 2005.

As the largest contributor to community GHG emissions, trends in on-road transportation highly impact the inventory. Following the decrease in transportation emissions due to the COVID-19 pandemic in 2020, staff expected emissions to increase in 2021 and 2022 as restrictions eased and pre-pandemic activities resumed. Despite 2022 being the first full year without pandemic-related restrictions, total emissions from 2021 to 2022 only increased by 0.2% from 37.5% to 37.3% above 2005 levels. The relatively consistent emissions between 2021 and 2022 could be attributed to a shift towards increased hybrid and remote work following the pandemic.

Table 1: GHG Emissions by Sector (MT CO<sub>2</sub>e)

	2005	2010	2015	2019	2020	2021	2022	% Change from 2005
Electricity	185,536	165,172	141,814	12,467	23,038	35,844	29,313	-84.2%
Natural Gas	189,995	191,526	176,803	176,649	166,334	168,917	170,495	-10.3%
Transportation	529,317	458,988	450,925	420,995	309,168	345,905	346,081	-33.5%
Off-Road Vehicles	14,889	17,004	27,267	24,287	31,352	25,040	31,695	112.8%
Waste	50,924	38,338	38,148	46,187	34,628	32,011	32,141	-36.8%

<b>Water and wastewater</b>	<b>4,718</b>	<b>4,314</b>	<b>3,471</b>	<b>2,706</b>	<b>2,516</b>	<b>2,201</b>	<b>1,939</b>	<b>-58.9%</b>
Total	975,379	884,079	838,428	683,291	567,036	609,918	611,677	37.3%
<b>Hayward Population</b>	<b>140,530</b>	<b>143,921</b>	<b>155,753</b>	<b>163,965</b>	<b>161,808</b>	<b>160,081</b>	<b>159,800</b>	<b>13.7%</b>
Total Emissions/ Capita	6.9	6.1	5.4	4.3	3.5	3.8	3.9	-43.5%

## ATTACHMENTS

Attachment I Staff Report