



# CITY OF HAYWARD

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## Cover Memo

**File #:** RPT 23-085, **Version:** 1

**DATE:** September 11, 2023

**TO:** Council Sustainability Committee

**FROM:** Director of Public Works

### SUBJECT

2021 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 community. This report provides the results of the calendar year 2021 inventory and compares it to the previous seven 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 (MTC02e). The table shows that, in 2021, emissions were reduced by 37.4% since 2005.

Table 1: GHG Emissions by Sector (MT C02e)

|                         | 2005    | 2010    | 2015    | 2017    | 2018    | 2019    | 2020    | 2021    | % Change from 2005 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| Electricity             | 185,536 | 165,172 | 141,814 | 74,919  | 47,452  | 12,467  | 23,038  | 35,844  | -80.7%             |
| Natural Gas             | 189,995 | 191,526 | 176,803 | 186,111 | 187,991 | 176,649 | 166,334 | 168,917 | -11.1%             |
| Transportation          | 529,317 | 458,988 | 450,925 | 445,769 | 440,914 | 420,995 | 309,168 | 345,905 | -34.6%             |
| Off-Road Vehicles       | 14,889  | 17,004  | 27,267  | 27,019  | 21,830  | 24,287  | 31,352  | 25,040  | 68.2%              |
| Waste                   | 50,924  | 38,338  | 38,148  | 47,555  | 52,209  | 46,187  | 34,628  | 32,011  | -37.1%             |
| Water and wastewater    | 4,718   | 4,314   | 3,471   | 2,742   | 2,730   | 2,706   | 2,516   | 2,201   | -53.3%             |
| Total                   | 975,379 | 884,079 | 838,428 | 784,115 | 753,126 | 683,291 | 567,036 | 609,918 | -37.4%             |
| Hayward Population      | 140,530 | 143,921 | 155,753 | 159,623 | 159,603 | 160,197 | 162,954 | 163,404 | 16.3%              |
| Total Emissions/ Capita | 6.9     | 6.1     | 5.4     | 4.9     | 4.7     | 4.3     | 3.5     | 3.8     | -46.7%             |

## **ATTACHMENTS**

Attachment I Staff Report