

Council Sustainability Committee

Update on Waste Reduction and Recycling Programs

January 11, 2021



Diversion



50% Diversion

MANDATE

ACWMA

75% County-wide diversion by 2010



75% City-wide diversion by 2010

80% City-wide diversion by 2018

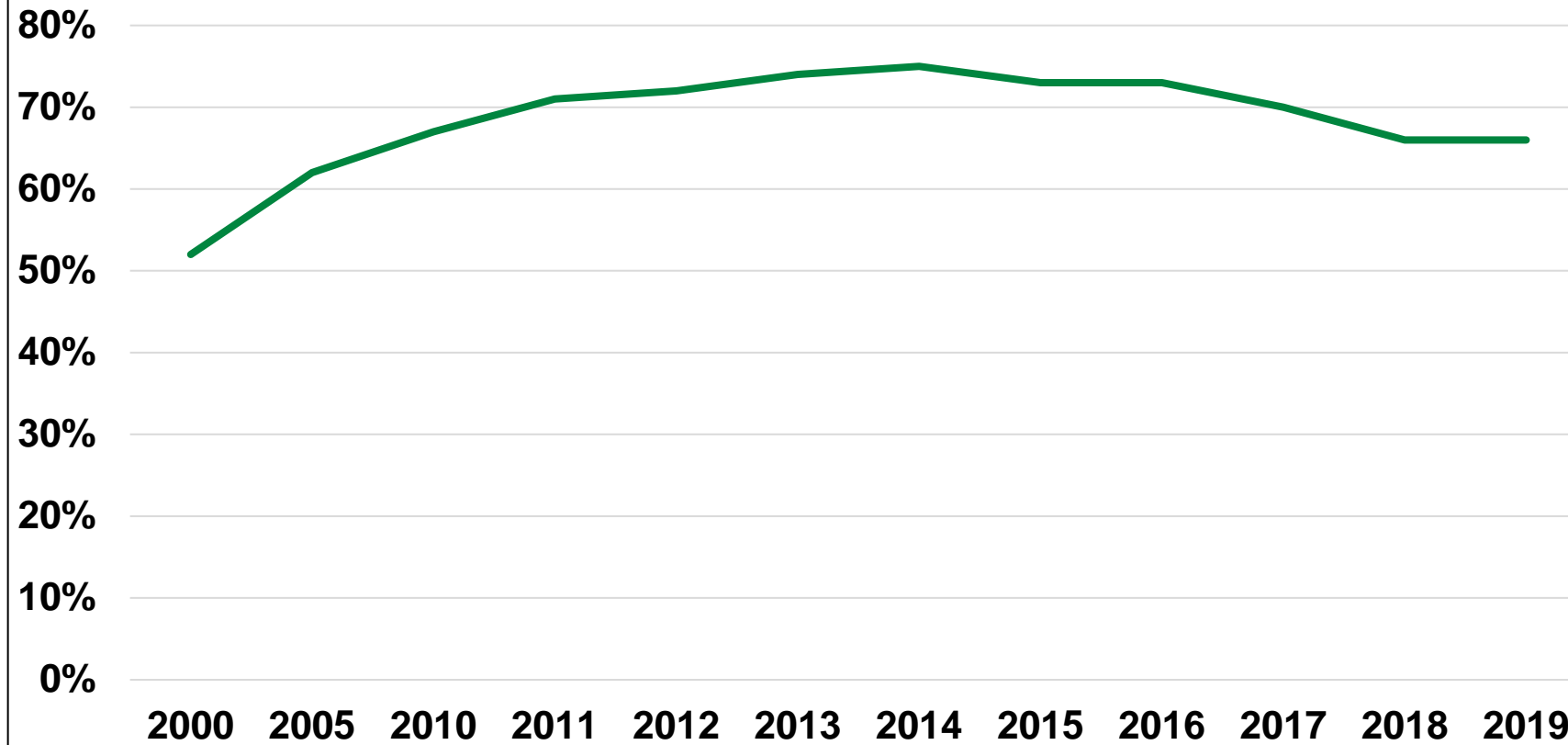
GOALS



80% WM diversion in City by 2024

CONTRACT
REQUIREMENT

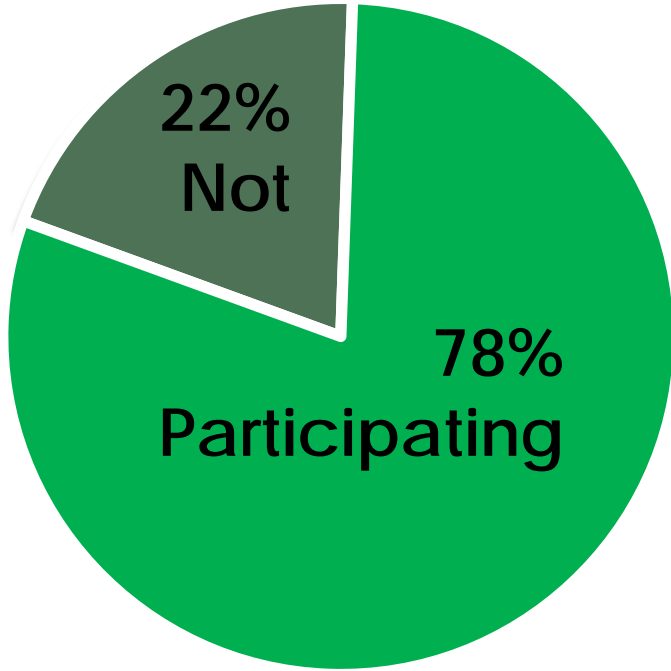
Hayward Diversion Rate 2000-2019



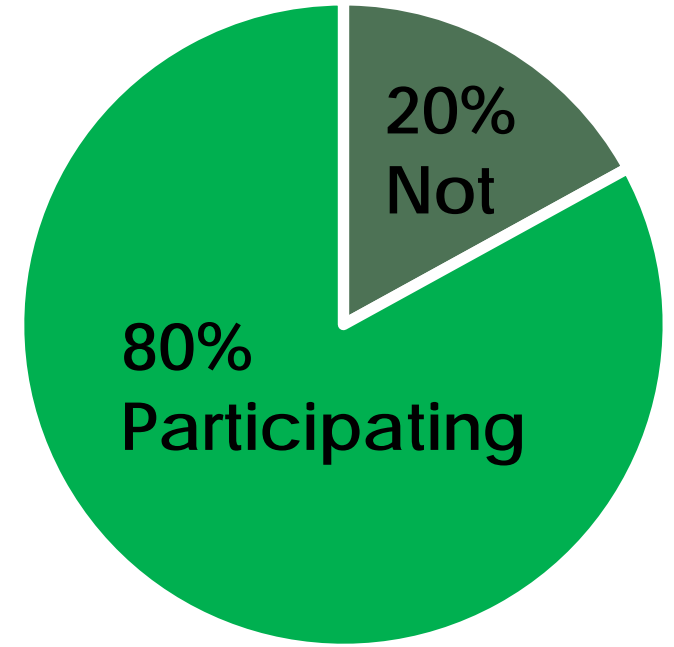
Hayward Diversion Rate for 2019 = 66%

Business | Recycling Participation

December 2019



December 2020



Multifamily | Recycling Participation

December 2019



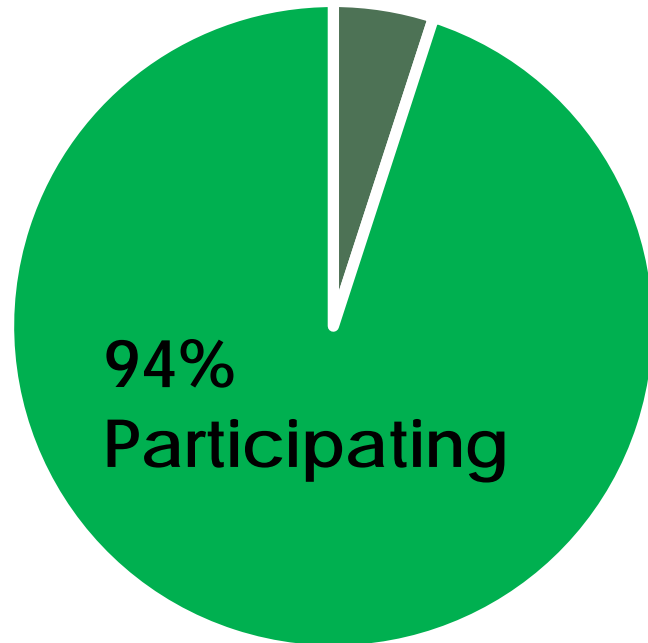
Multi-Family Recycling Participation
Same

December 2020

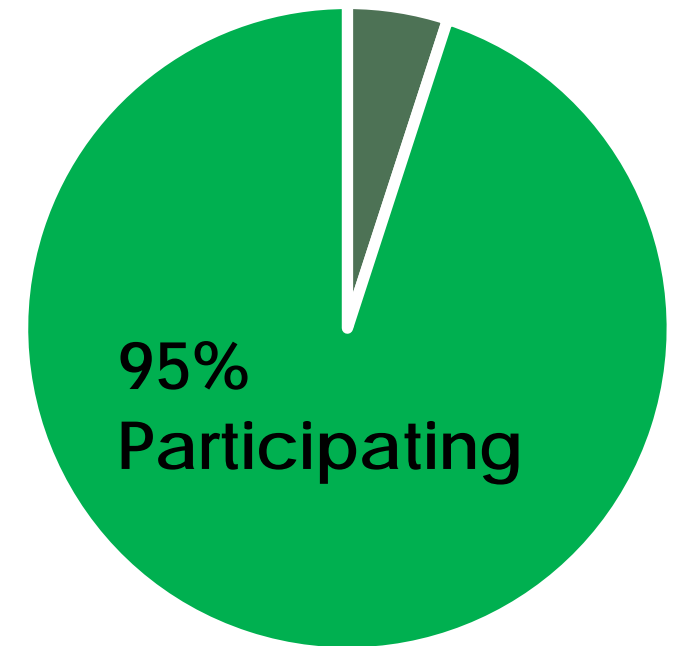


Multifamily | Organics Participation

December 2019



December 2020



Multi-Family Organics Participation

Up 1%

Bulky Service



It's As Easy As 1-2-3!



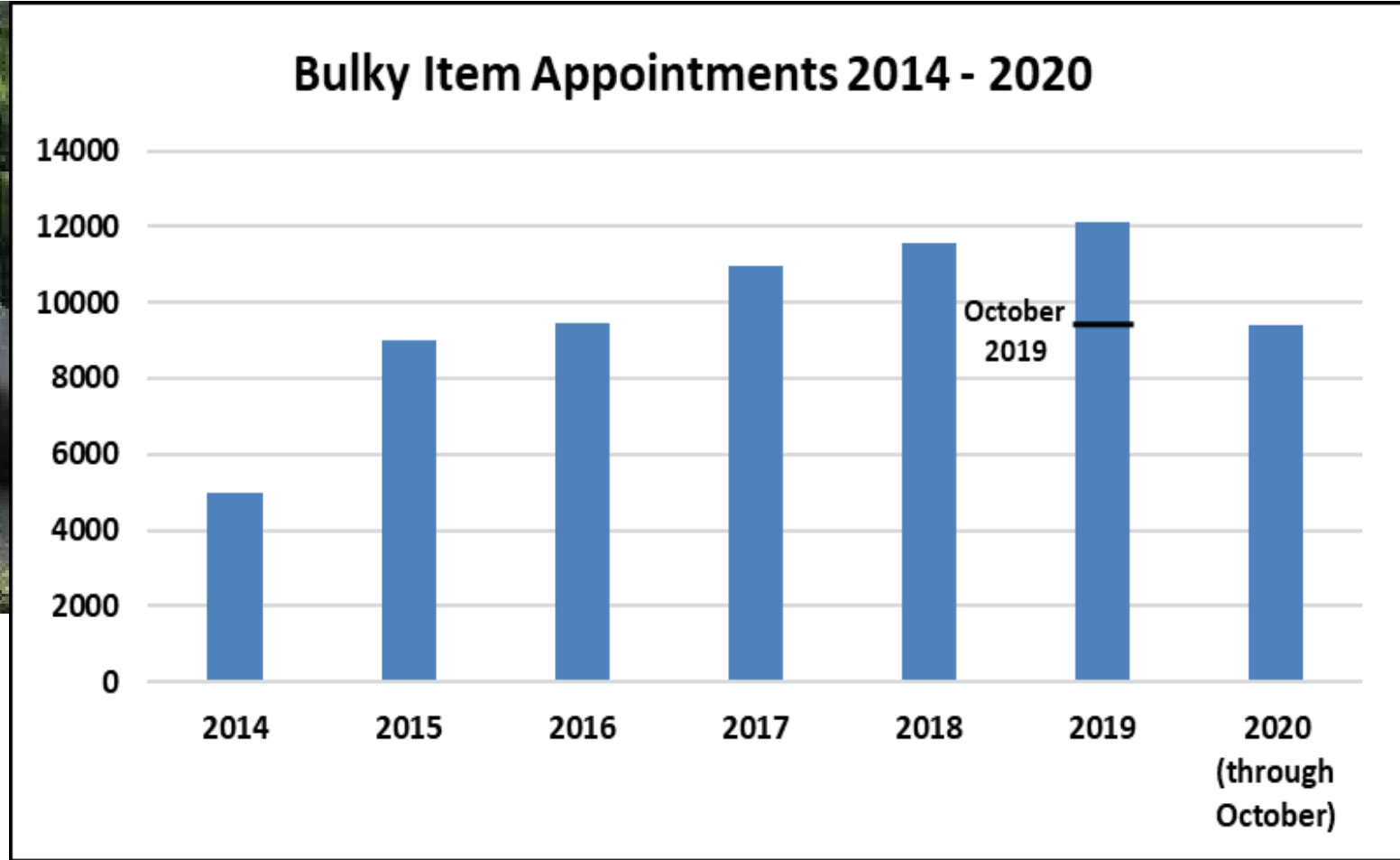
CALL-US



SET-OUT

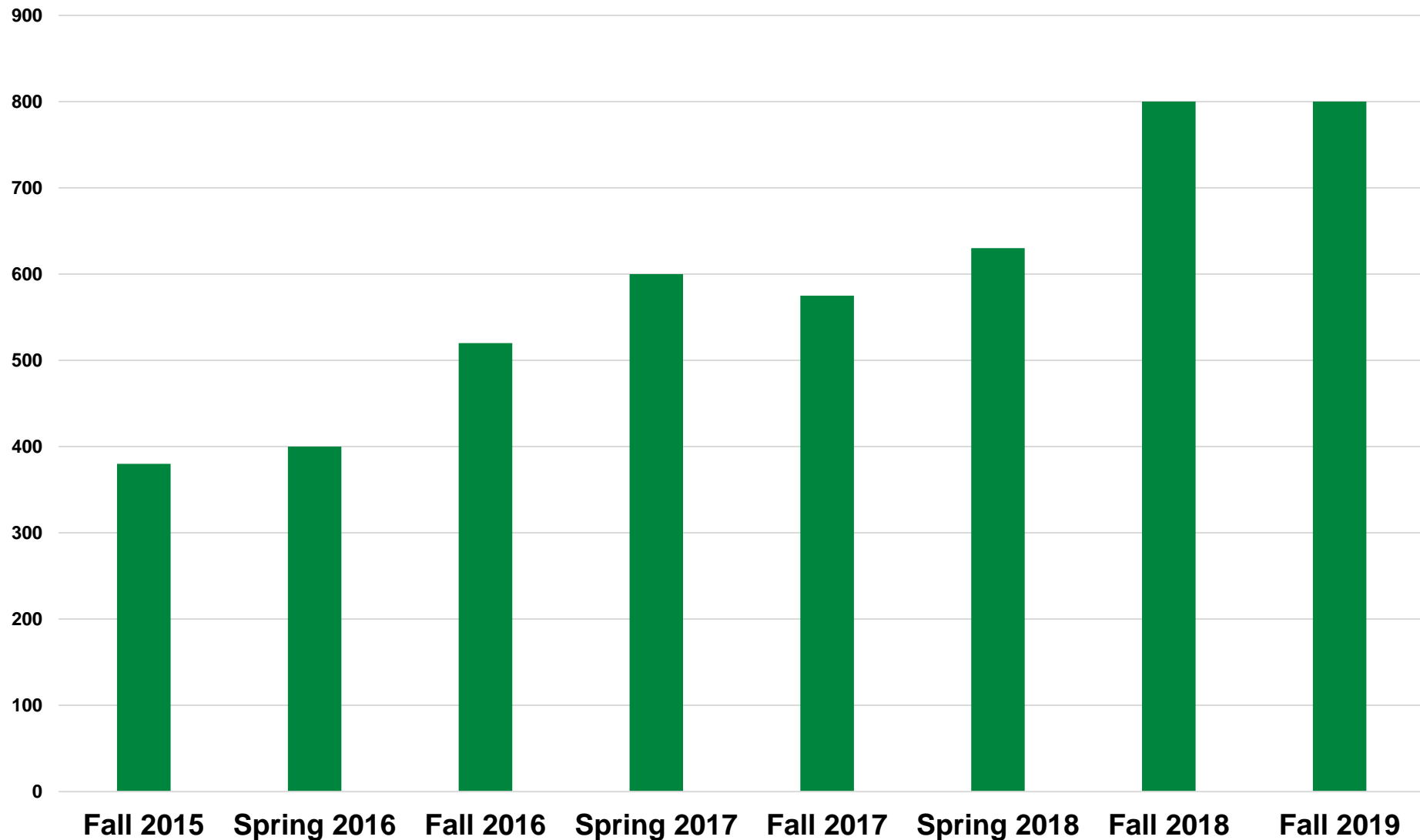


PICK-UP



WMAC Services — Free Compost

Compost Giveaway Attendance

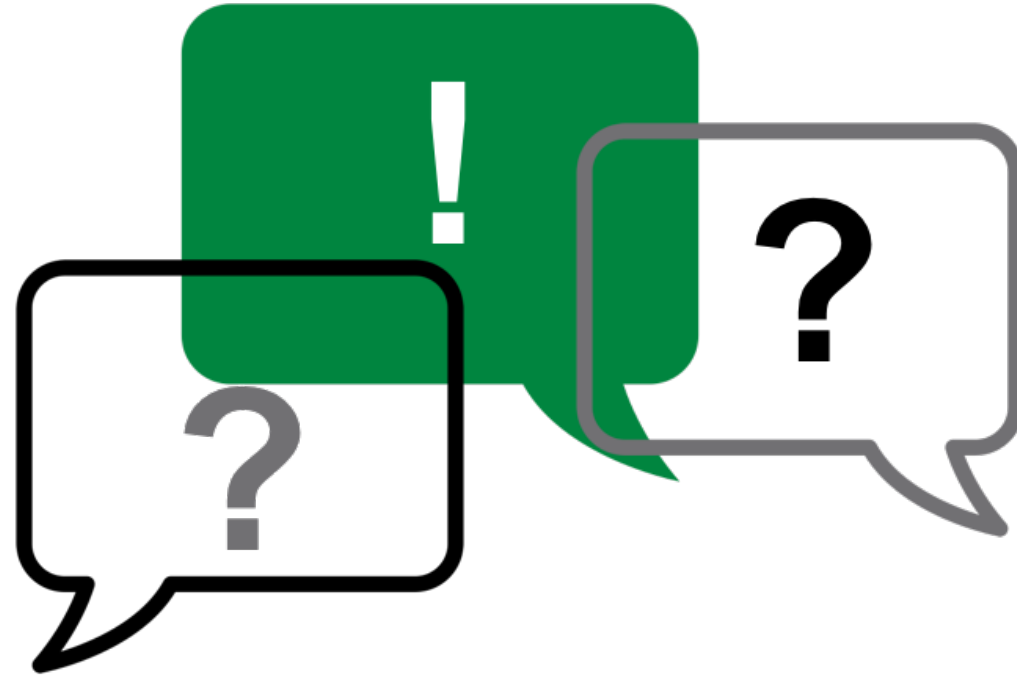




Next Steps

- Rates
 - CPI-Based 2021-2022 Rates to Council for Approval
- Continue Outreach
- March CSC Agenda:
 - Franchise Agreement Negotiations Update

Questions







Council Sustainability Committee

Municipal Regional Permit 3.0 Reissuance

January 11, 2021

Stormwater Regulatory History

- 1948
 - Federal Water Pollution Act Adopted
 - (Established funding for Water Pollution Control Facilities)
- 1972
 - Federal Clean Water Act Adopted
 - Expanded control of all 'point-source' discharges and wastewater standards for industry
 - Established NPDES permit program
- 1987
 - Clean Water Act Amended to control stormwater runoff or 'non-point source' discharges
 - Expanded NPDES permit program to include permits for stormwater runoff for municipalities
- 2009
 - Adoption of the first Municipal Regional Permit for the S.F. Bay Area
 - The MRP significantly increased the requirements for stormwater programs
- 2015
 - Adoption of the Municipal Regional Permit 2.0 (renewal of the first MRP)
 - The new MRP 2.0 increased the requirements with specific pollutant numerical reduction goals
- 2021
 - MRP 3.0 Reissuance draft scheduled to be released in January 2021. Adoption anticipated in July 2022.

MRP 3.0 Reissuance

- ▶ Regulates stormwater discharges in Alameda, Contra Costa, Santa Clara, San Mateo counties as well as the cities of Fairfield, Suisun, and Vallejo and the Vallejo Sanitation and Flood Control District
- ▶ Five-year permit- Draft to be released in January 2021 followed by a 60-day comment period
- ▶ Adoption on July 1, 2022 (delayed due to COVID)
- ▶ Likely to increase prescriptive best management practices (BMPs) that each municipality must implement to comply with stormwater pollution prevention requirements

Municipal Regional Permit (MRP) Provisions

- ▶ C.1 Discharge Prohibitions
- ▶ C.2 Municipal Operations
- ▶ C.3 New Development and Redevelopment
- ▶ C.4 Industrial and Commercial Site Controls
- ▶ C.5 Illicit Discharge Detection and Elimination
- ▶ C.6 Construction Site Control
- ▶ C.7 Public Information and Outreach
- ▶ C.8 Water Quality Monitoring
- ▶ C.9 Pesticides Toxicity Control
- ▶ C.10 Trash Load Reduction
- ▶ C.11 Mercury Controls
- ▶ C.12 Polychlorinated Biphenyls (PCBs) Controls
- ▶ C.13 Copper Controls
- ▶ C.14 Bacteria Controls (applicable to the City of Pacifica and San Mateo County only)
- ▶ C.15 Exempted and Conditionally Exempted Discharges

Significant Changes with the MRP 3.0

- ▶ Development requirements expanded to include single family homes and developments down to 5,000 square feet. Increase in Green Infrastructure compliance reporting.
- ▶ Restructuring creek monitoring requirements to not increase cost but to remove redundant efforts of sampling and analysis.
- ▶ Changing trash reduction goal milestones and increase reporting requirements.
- ▶ Load reductions for Mercury and PCBs for municipal bridges
- ▶ New regulations for homeless encampments

Development Requirements

- Addition of single-family homes to C.3 requirements.
- Threshold for C.3 applicability changed from 10,000 sq ft to 5,000 square feet.
- Increased reporting on Green Infrastructure progress.



Trash Reduction Requirements

- ▶ 90% Reduction by July 1, 2023 (or plan must be provided by July 1, 2023)
- ▶ 100% trash reduction by July 1, 2025.
- ▶ New requirements regarding pollution from homeless encampments not yet released.
- ▶ Removal of source control credits (plastic bag and polystyrene bans) in 2025.



Current Trash Reduction Status

Past and Future Reduction Percentages		Compliance Dates
2015/2016	79%	60% by July 1, 2016
2016/2017	79.3%	70% by July 1, 2017
2017/2018	60.6% (reduction due to unsustainable on-land pick up)	80% by July 1, 2019
2018/2019	61%	80% by July 1, 2019
2019/2020	62%	100% by July 1, 2022
2020/2021	TBD	100% by July 1, 2022
2021/2022	TBD	90% by July 1, 2023*
2022/2023-2024/2025	TBD	100% by July 1, 2025

*Text in red are future MRP 3.0 draft requirements

Trash Reduction Goals

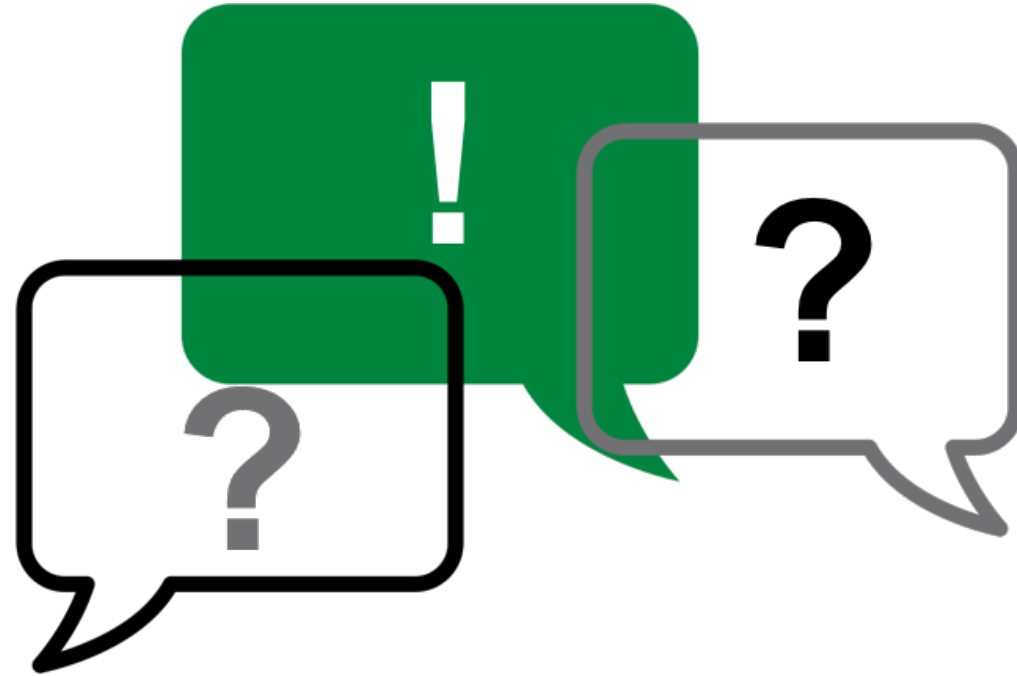
Current Goals:

- ▶ Install large full trash capture device by October of 2021 using EPA grant funds (~5% credit)
- ▶ Install three large full trash capture devices by 2022 using Caltrans funds (23% credit)

Proposed Goals:

- ▶ Propose a fourth project to Caltrans (6% credit)
- ▶ Increase commercial/industrial stormwater inspection program using automated ticket system
- ▶ Focus additional stormwater inspections in high trash generating areas
- ▶ Propose ordinance for private properties not connected to City's trash devices to install private trash capture.

Discussion





Council Sustainability Committee

CY 2019

Greenhouse Gas Emission Inventory

January 11, 2021



Hayward's GHG Emission Reduction Goals and Actual Emission Reductions

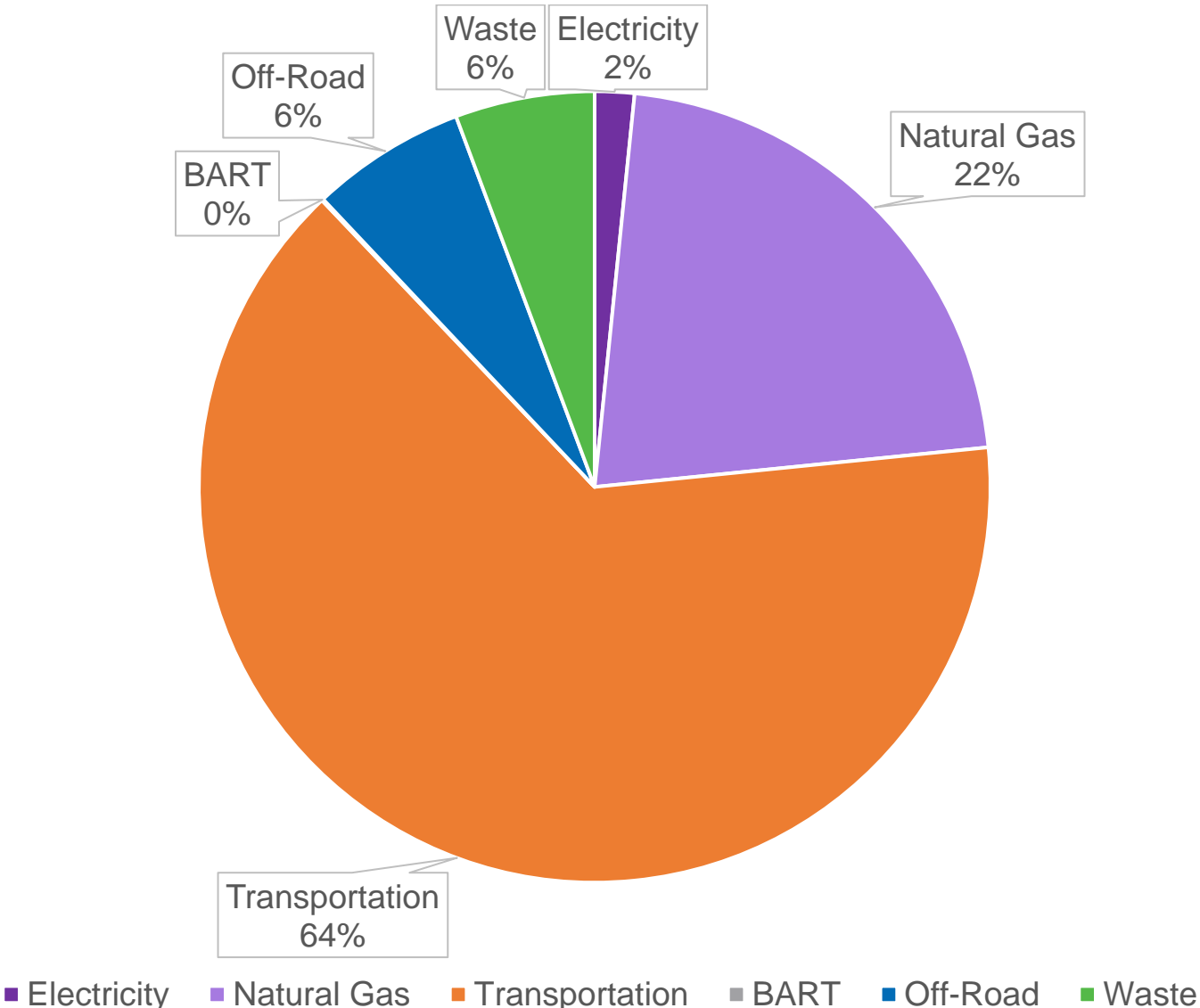
Year	Goal	Actual Reduction
2005	Baseline	
2018		21.6%
2019		25.7%
2020	20%	
2025	30%	
2030	55%	
2045	Carbon neutrality	

Hayward's GHG Emission Inventory Data

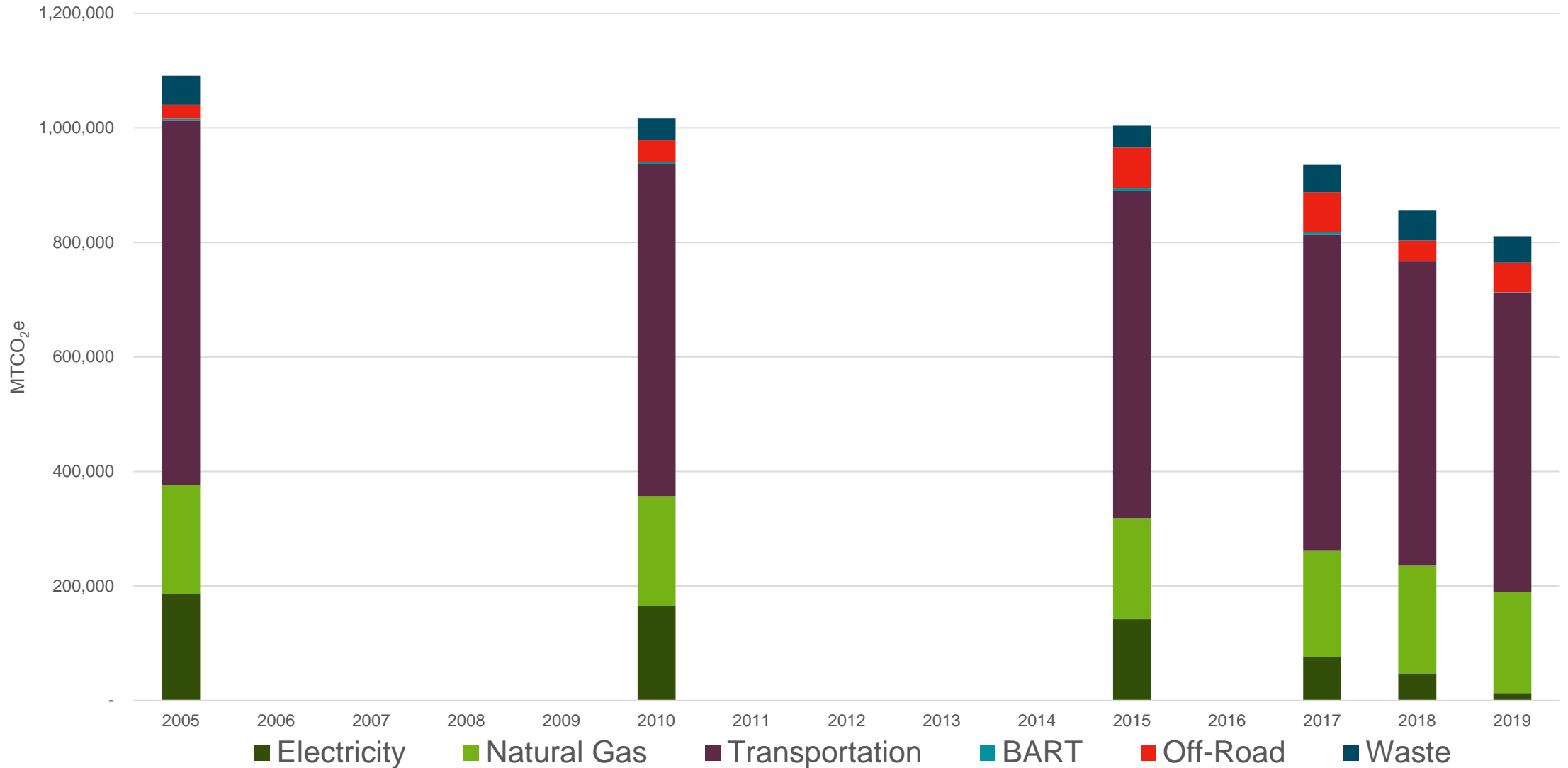
GHG Emissions by Sector (MTC02e)

	2005	2010	2015	2017	2018	2019	% Change from 2005
Electricity	185,890	165,304	141,854	75,118	47,531	13,093	-93.0%
Natural Gas	189,995	191,526	176,803	186,110	187,991	176,649	-7.0%
Transportation	636,581	580,238	571,556	553,298	531,104	522,897	-17.9%
BART	3,440	3,425	4,276	3,994	556	547	-84.1%
Off-Road Vehicles	24,345	37,630	71,034	69,279	36,064	51,392	+111.1%
Waste	50,924	38,338	38,148	47,555	52,209	46,187	-9.3%
Total	1,091,174	1,016,461	1,003,670	935,354	855,465	810,765	-25.7%
Hayward Population	140,530	143,921	155,753	159,623	159,603	160,197	
Total Emissions/ Capita	5.2	4.8	4.4	4.1	3.7	3.5	-32.9%

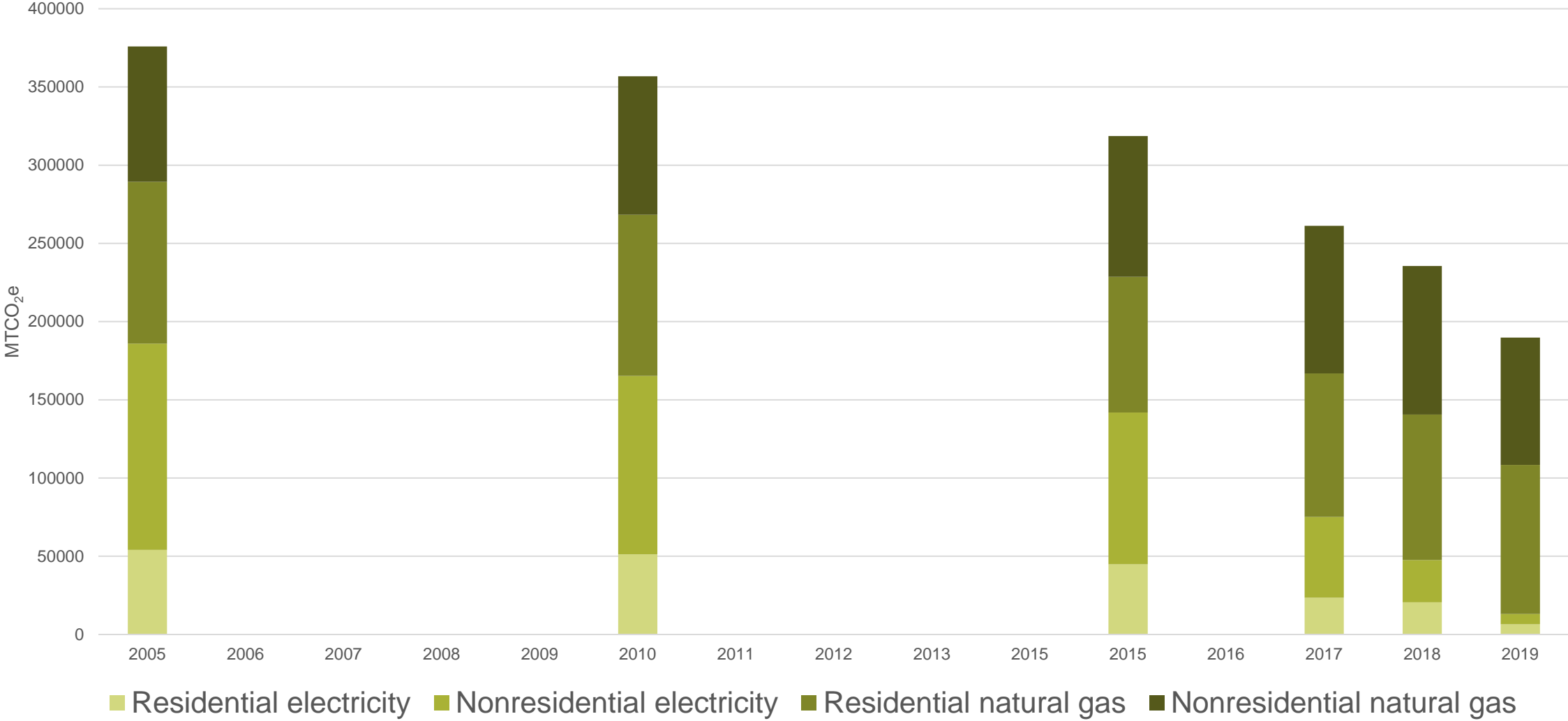
Relative Contributions to Hayward's GHG Emissions (2019)



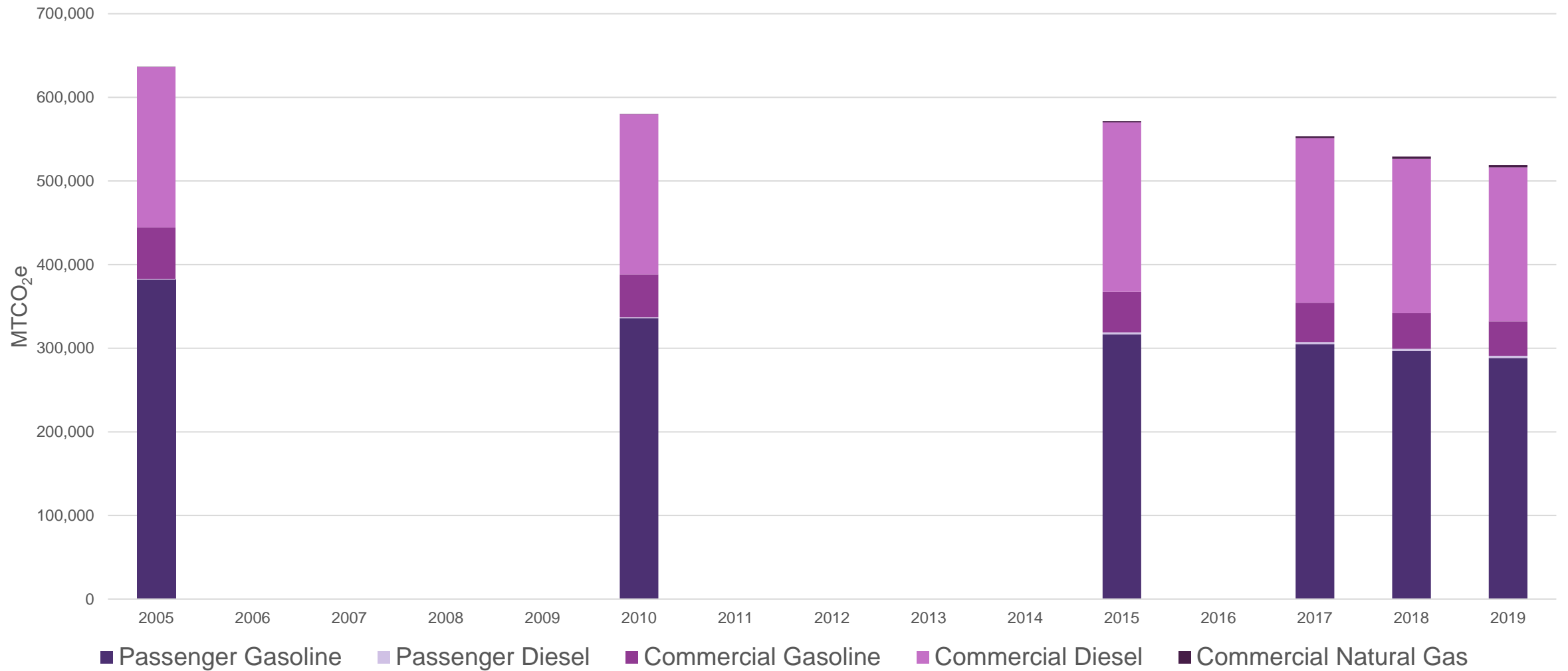
Hayward's GHG Emissions by Subsector



Energy Sector



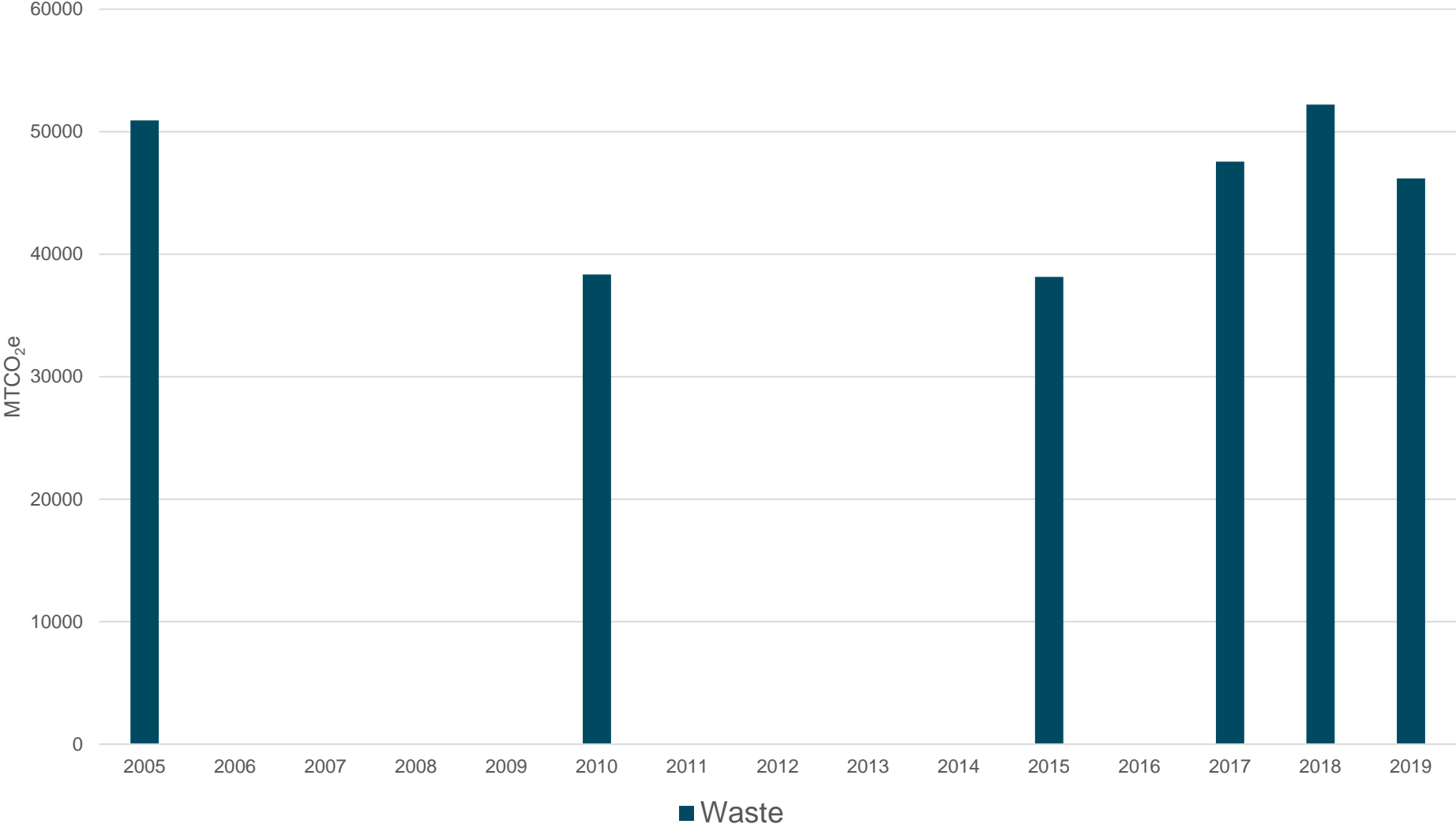
Transportation Sector



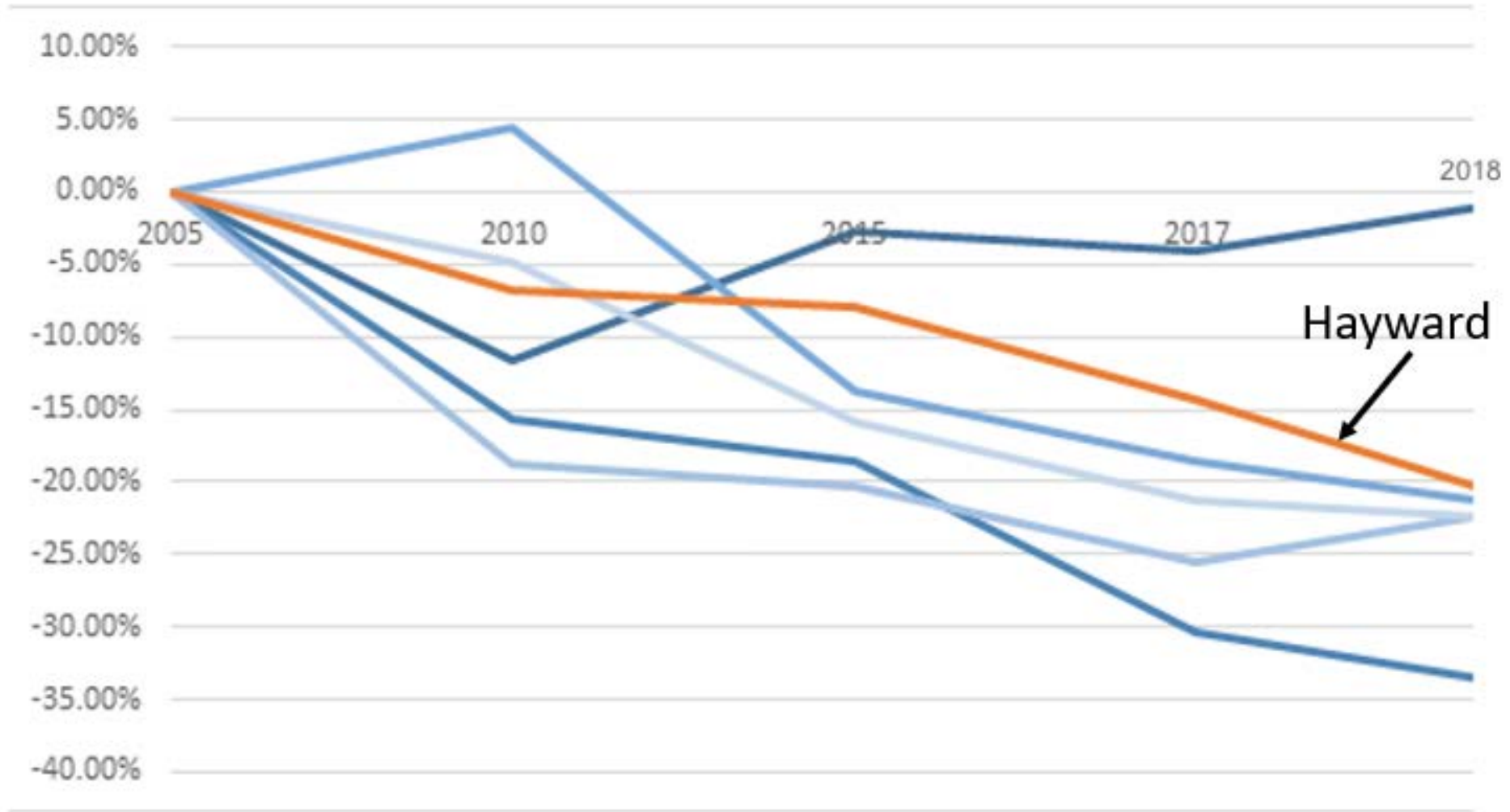
Off-road Vehicles Sector

	2005	2010	2015	2017	2018	2019	% Change from 2005
Agricultural Equipment	0	0	0	0	0	0	
Airport Ground Support Equipment	0	0	0	0	0	0	
Construction and Mining Equipment	0	11,478	40,143	37,833	5,696	20,447	+78%*
Dredging	0	0	0	0	0	0	
Entertainment Equipment	83	83	83	85	83	83	0%
Industrial Equipment	12,564	13,030	14,007	14,350	14,522	14,697	+17%
Lawn and Garden Equipment	2,470	2,460	2,562	2,664	2,640	2,653	+7%
Light Commercial Equipment	4,958	5,009	5,046	5,141	5,185	5,230	+5%
Logging Equipment	0	0	0	0	0	0	
Military Tactical Supp. Equip.	0	0	0	0	0	0	
Oil Drilling	0	0	0	0	0	0	
Pleasure Craft	1,531	1,751	2,036	2,218	2,247	2,311	+51%
Recreational Equipment	379	455	544	597	608	628	+66%
Transport Refrigeration Units	2,359	3,000	3,832	4,461	5,083	5,342	+126%
Total GHG Emissions	24,345	37,265	68,251	67,348	36,064	51,392	+111%

Solid Waste Sector



Progress Toward GHG Reduction Goal



*Individual cities are not labeled due to privacy concerns.

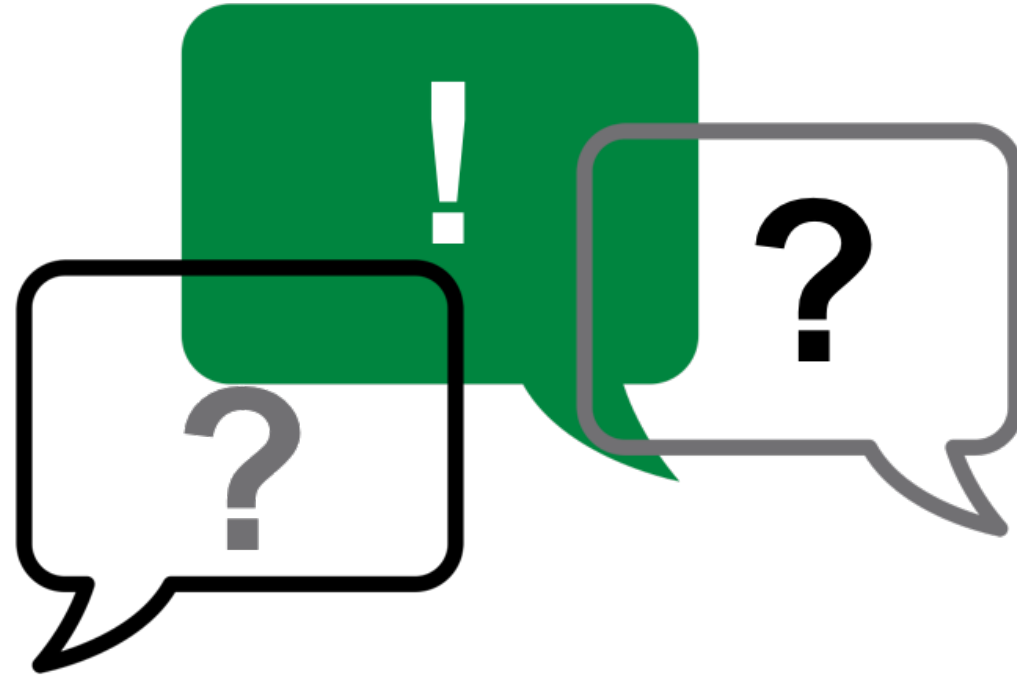
Limitations of the Inventory

- **Inventory is not a complete carbon footprint.**
- **Emissions associated with food and other products/services purchased are not included.**

Next Steps

- 
- **Continue to work with regional agencies on inventories to increase frequency**
 - **Develop a roadmap to meet the 2030 target**

Questions





Council Sustainability Committee

Proposed 2021 Agenda Planning Calendar

January 11, 2021



Proposed 2021 Agenda Planning Calendar

Monday, March 8, 2021

Update on Preparation of 2020 Urban Management Plan & Water Conservation

Recycling and Recyclables Markets

Results of the Advanced Metering Infrastructure (AMI) Customer Portal Pilot Program

Monday, May 10, 2021

Recycled Water – Annual Report (May or July)

WMAC Franchise Agreement

Underlined items are those recommended to be added to calendar

Proposed 2021 Agenda Planning Calendar

Monday, July 12, 2021

Implementation of Reach Code – Annual Report

EBCE Default Electricity Product Choices

Draft Ordinance for Implementation of SB 1383

Unscheduled Items

Sustainable Groundwater Plan

Low Carbon Concrete

Roadmap to Meet 2030 GHG Target

Pilot Program for Reusable Dishware

EV Charging Requirements for Existing Multifamily Properties

Ending Natural Gas Use by 2045

Implementation of Strategic Roadmap (Combat Climate Change projects)

Single-Use Food ware – Draft Ordinance

Underlined items are those recommended to be added to calendar

Discussion

