San Mateo Climate Action Plan Update

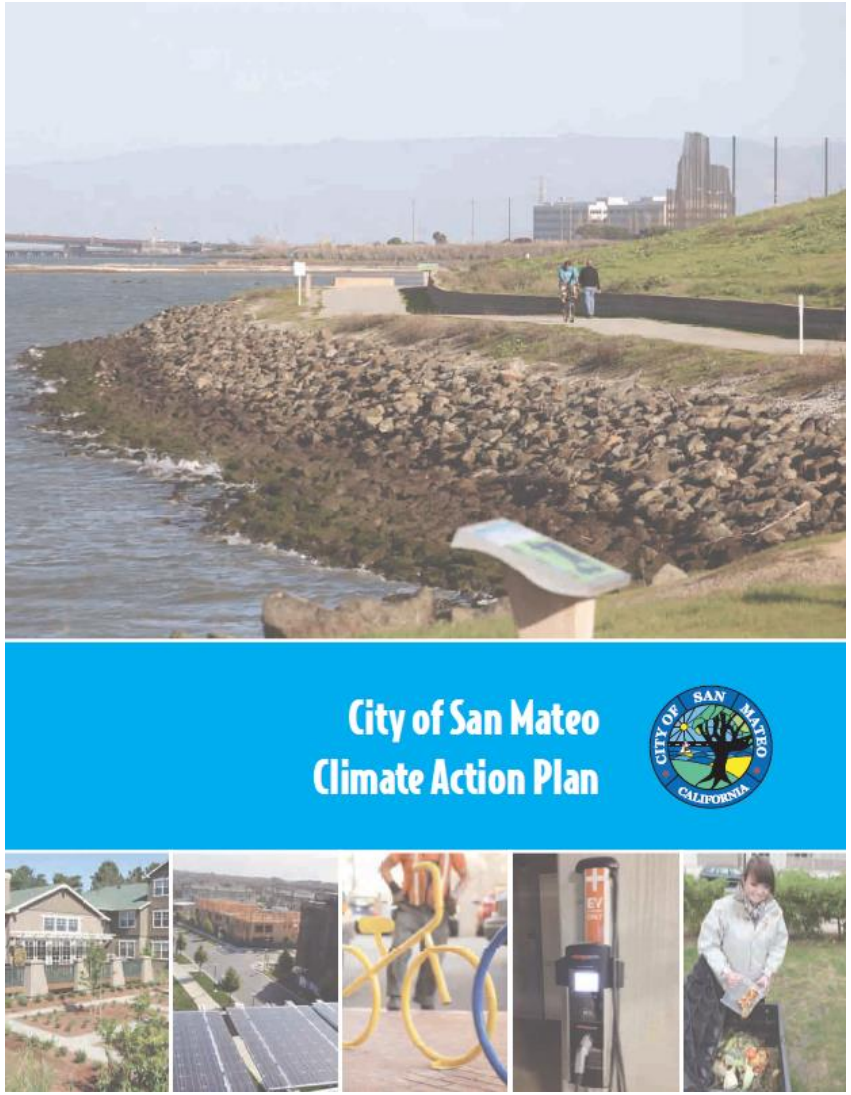
Sustainability and Infrastructure Commission | January 9, 2019

Who We Are

- Andrea Chow
  - Sustainability Analyst, City of San Mateo
- Tammy Seale
  - Principal in Charge and Project Manager, Climate Action and Resiliency Services, PlaceWorks
- Eli Krispi
  - Assistant Project Manager, Climate Action and Resiliency Services, PlaceWorks

Why Update the CAP?

- Current CAP was adopted in 2015
  - Reduces emissions to meet 2020 target.
- Need to stay consistent with State law.
- CAP does not meet long-term GHG targets.
- Build on City's recent CAP implementation successes.
- Integrate with General Plan update.



Integration with General Plan

- CAP will connect with General Plan.
  - Incorporate sustainability throughout General Plan.
  - Ensure General Plan policies support GHG reductions.
- PlaceWorks is General Plan Update prime consultant.
  - CAP will be finished before General Plan.

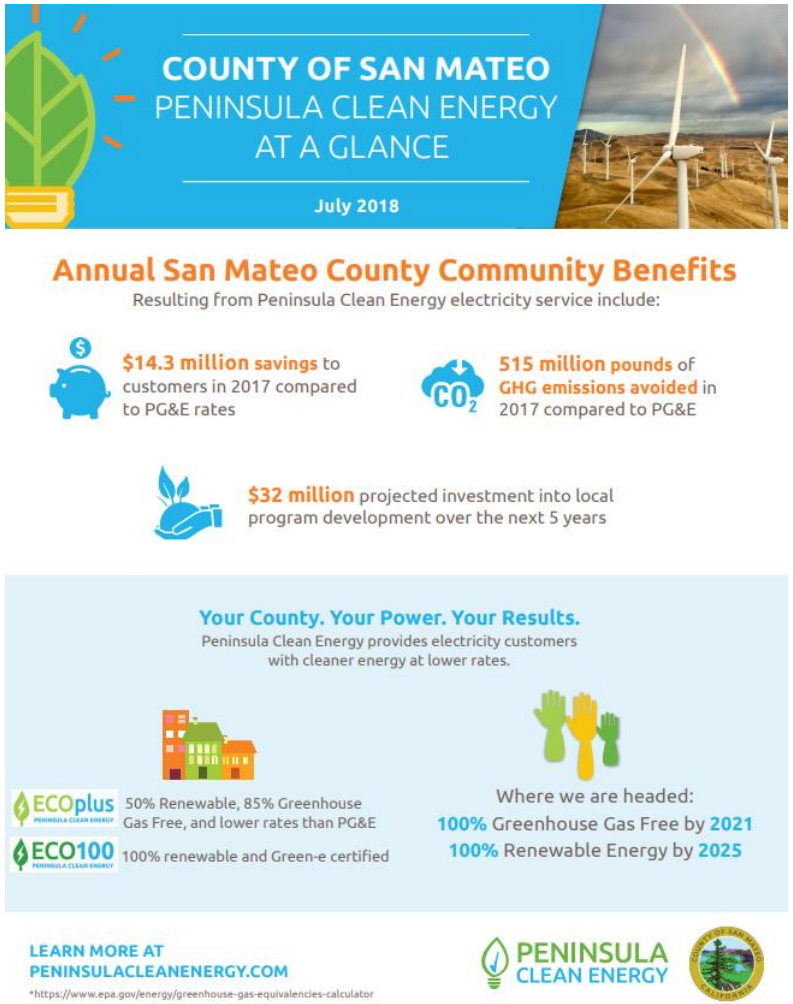
STRIVE SAN MATEO
GENERAL PLAN 2040

GHG Inventory

- Measurement of emissions that are attributed to San Mateo in a single calendar year.
  - Shows baseline emissions, to measure change against.
  - Shows interim emissions, to measure progress since baseline.
- Identifies major sources (sectors) of emissions.

Why Update the Inventory?

- Need to stay consistent with current science.
- Ensure inventories are consistent with RICAPS.
- Prepare 2017 inventory.
  - Impact of PCE and other recent policies.

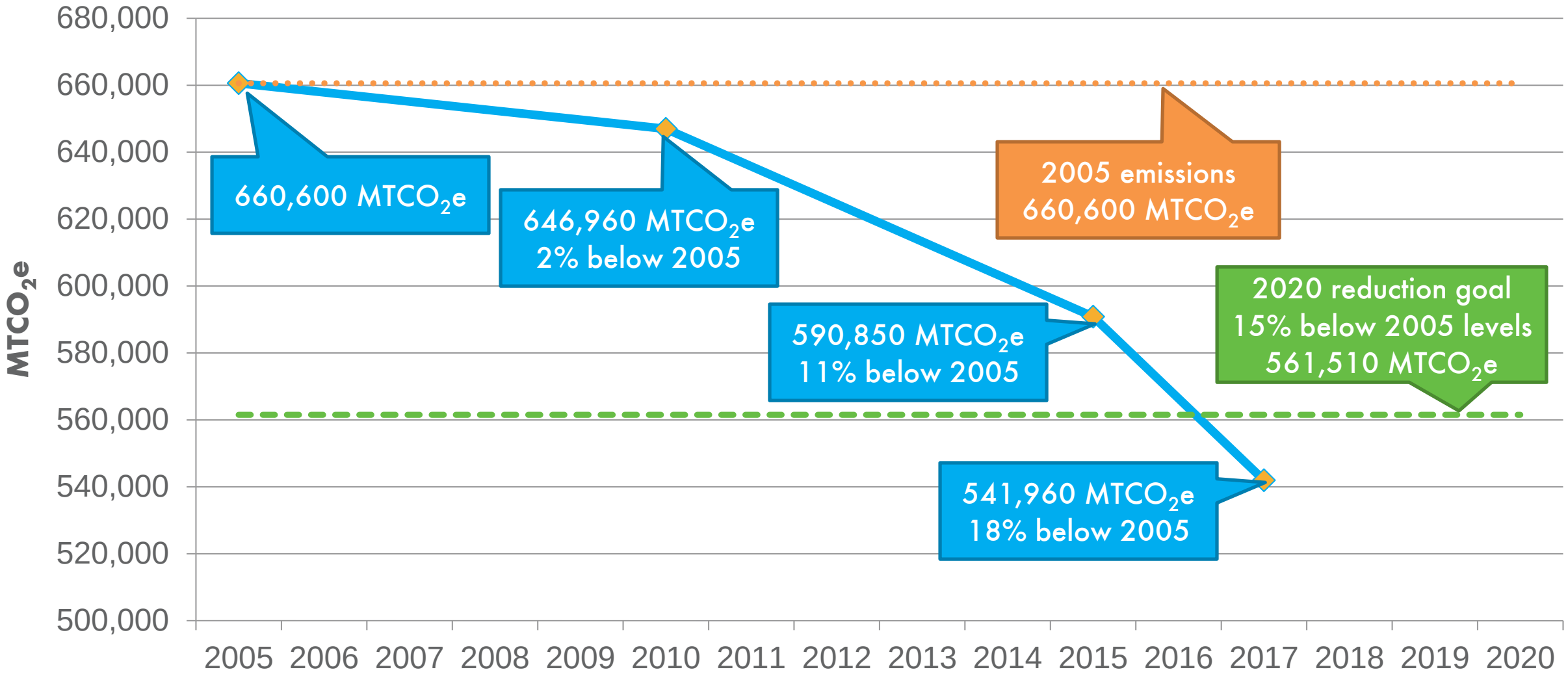


GHG Inventory Update – 2005 Baseline and 2017

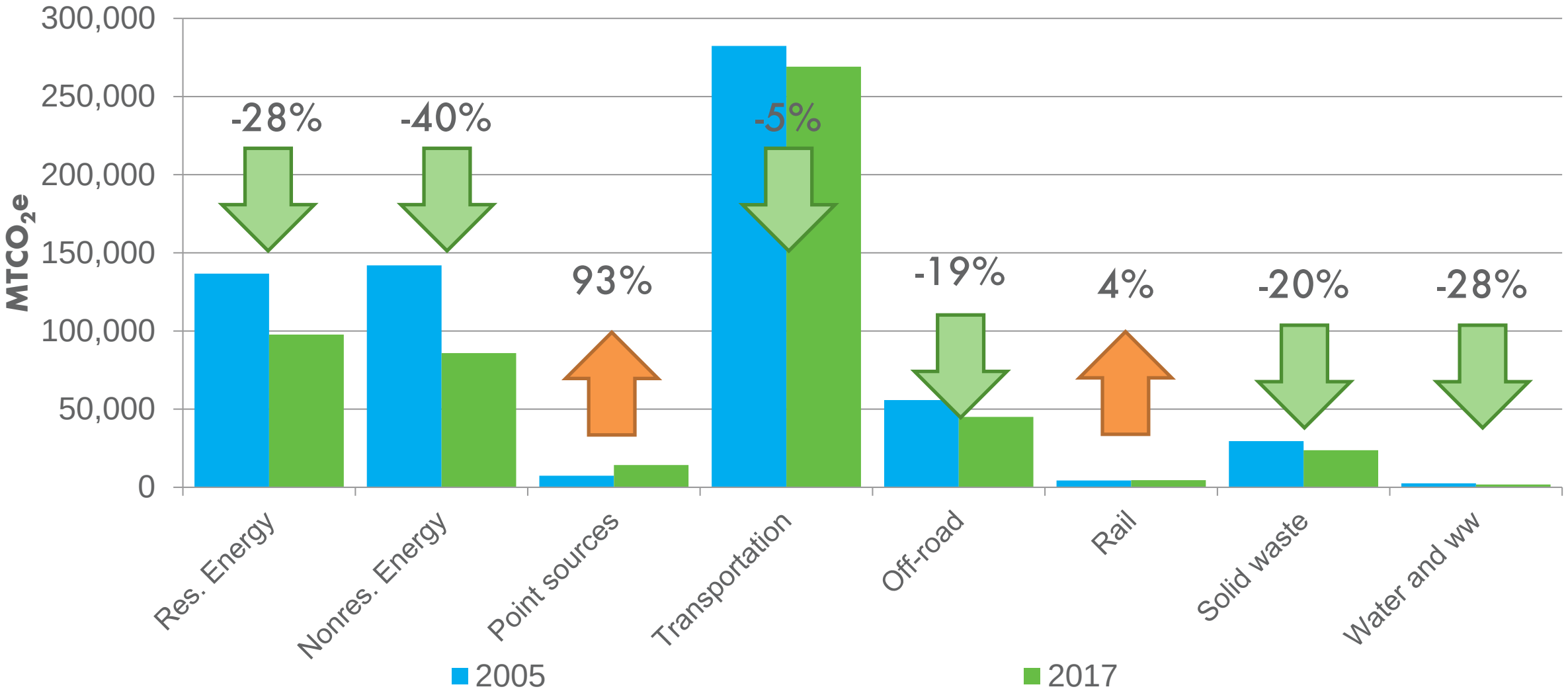
- Changes to VMT method.
- Expanded off-road category.
- Freight trains added.
- Minor method changes.

Sector	2005 $MTCO_2e$ (Adopted CAP)	2005 $MTCO_2e$ (Updated)	2017 $MTCO_2e$
On-road transportation	464,070	282,370	269,110
Commercial/industrial built environment	144,790	141,960	85,840
Residential built environment	136,790	136,690	97,730
Solid waste generation	26,960	29,550	23,680
Off-road equipment	11,690	55,780	45,030
Point sources	6,070	7,390	14,230
Rail	3,870	4,350	4,520
Water and wastewater	3,030	2,520	1,810
Total	**804,290**	**660,600**	**541,960**

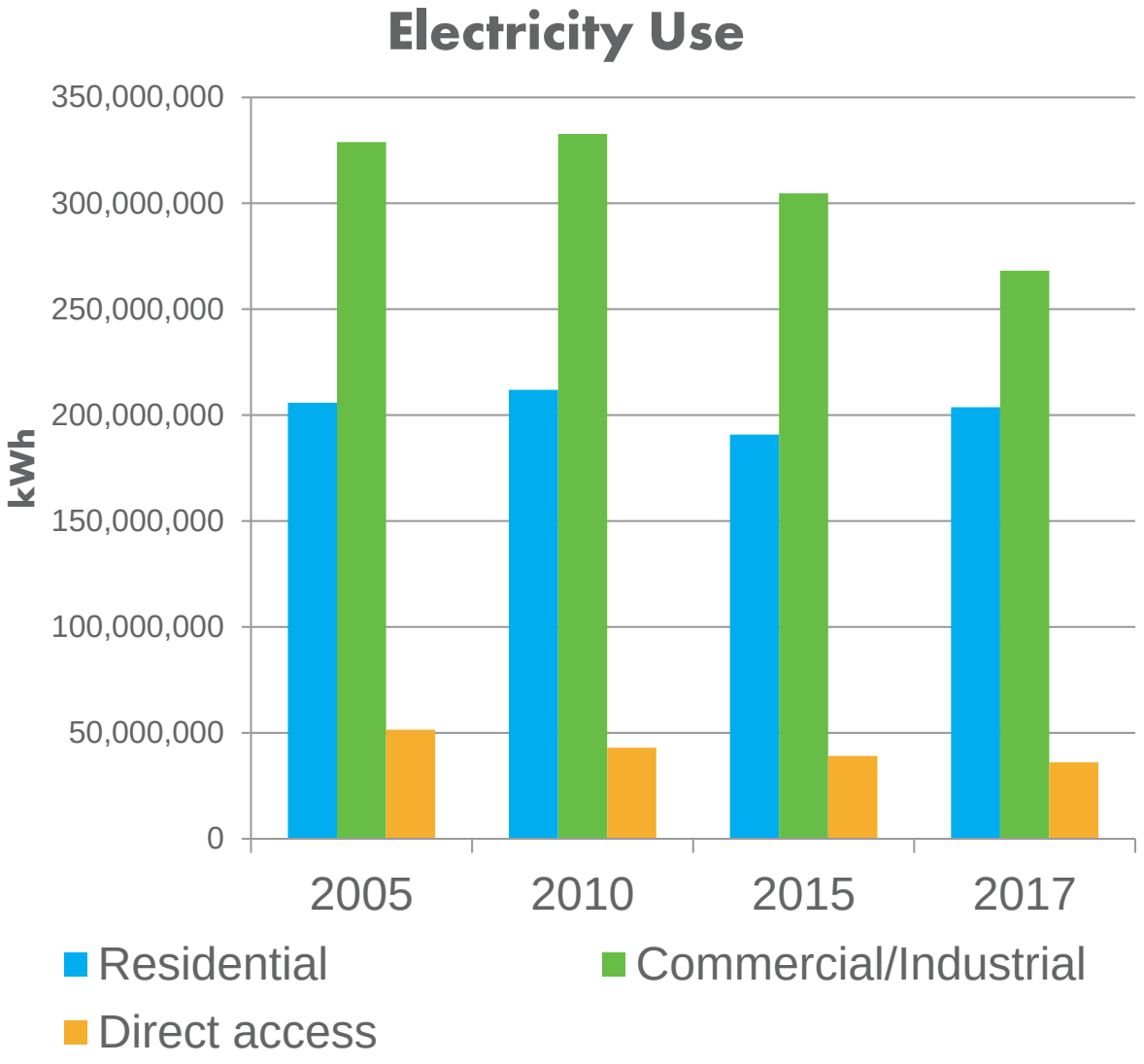
GHG Emissions Trends: 2005 - 2017

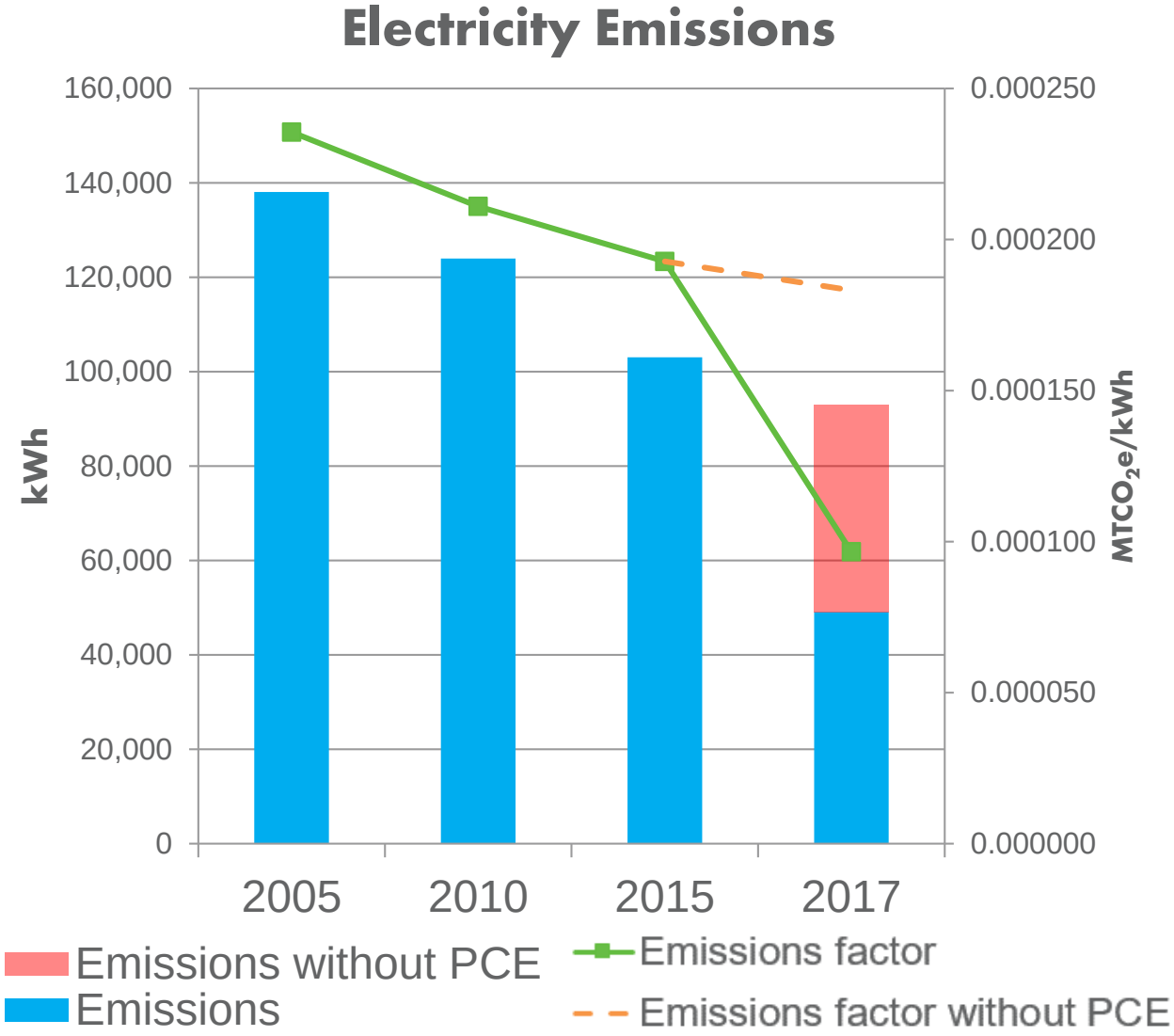


GHG Emissions by Sector: 2005 and 2017

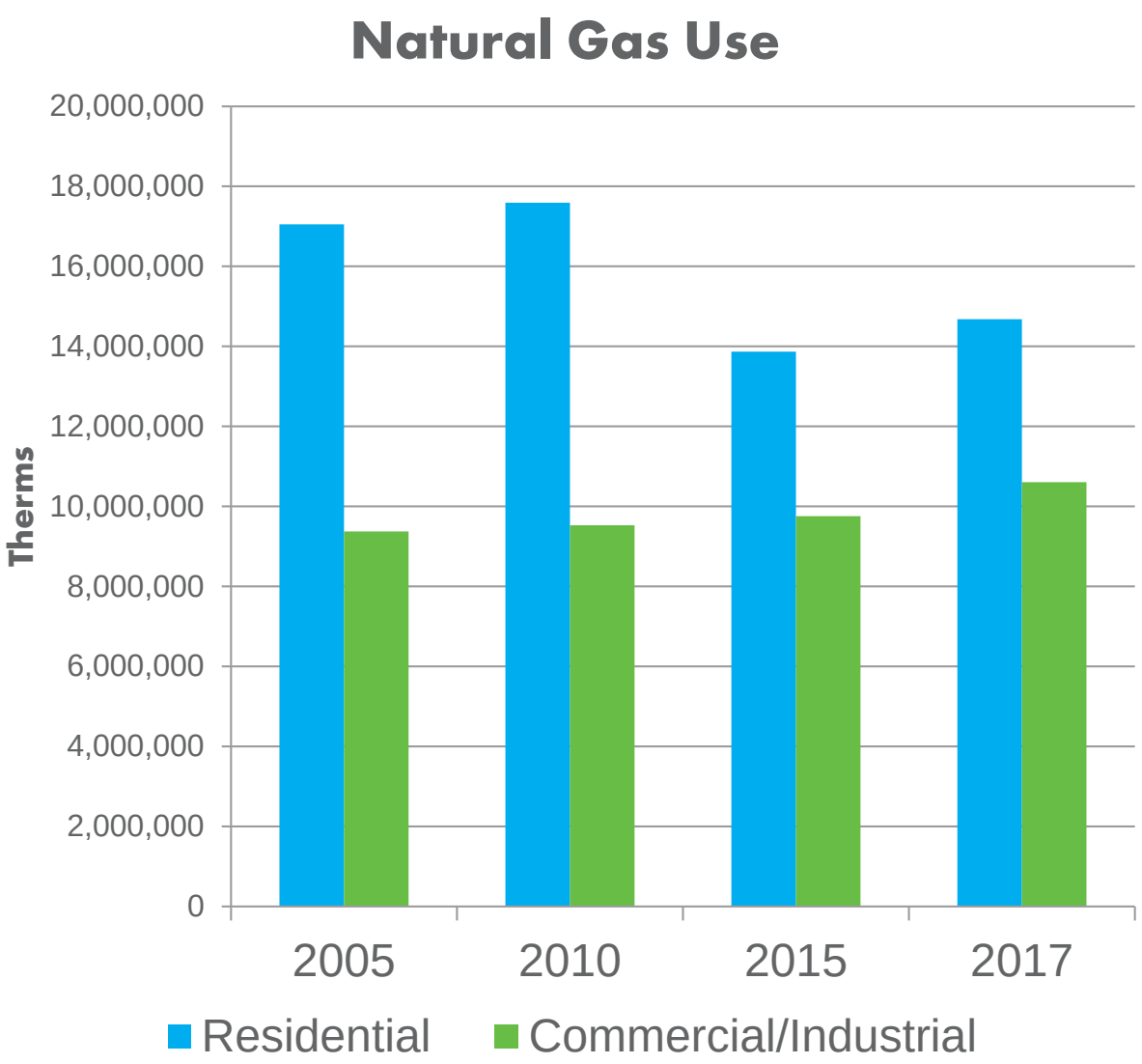


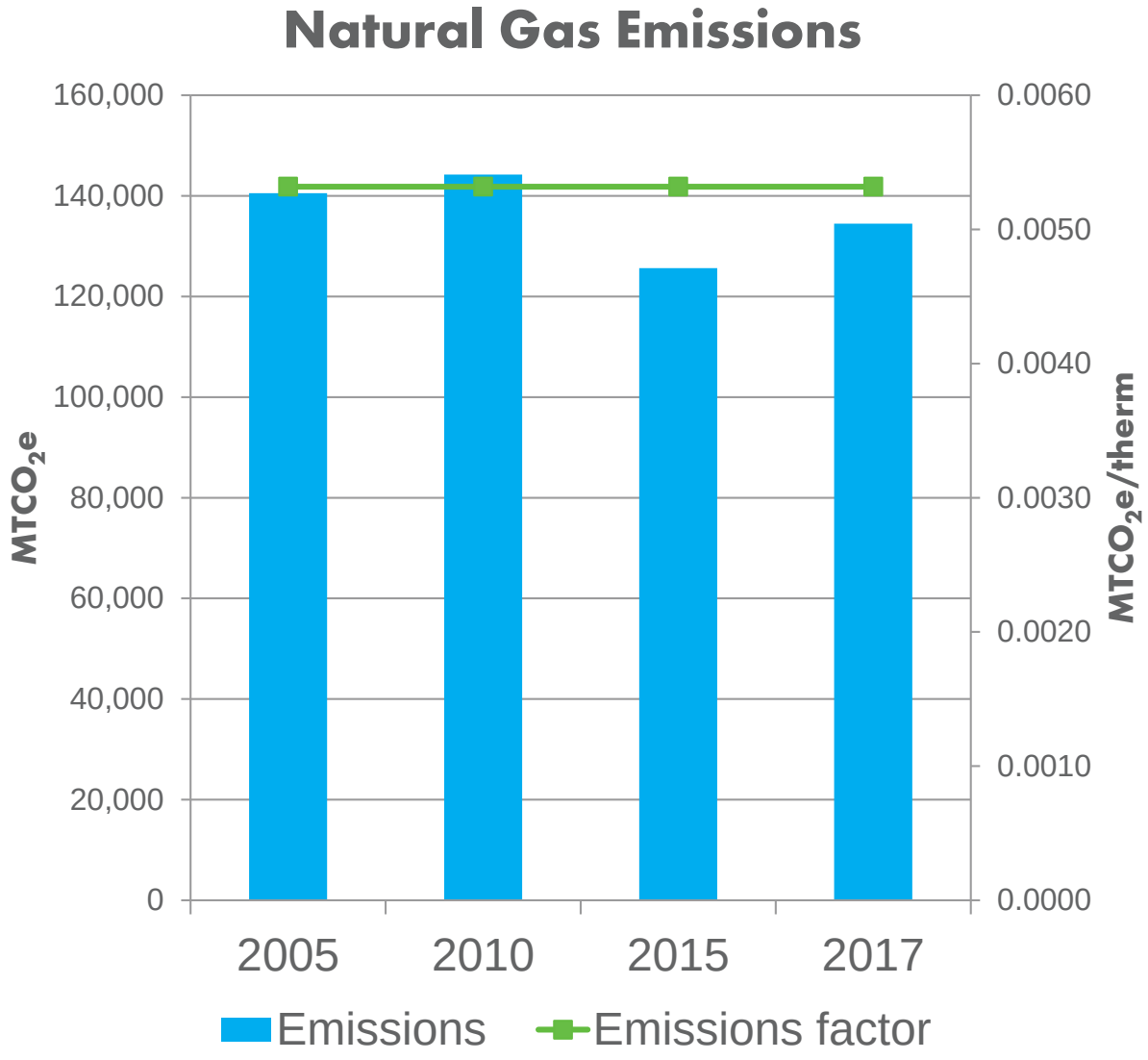
Electricity Trends: 2005 - 2017



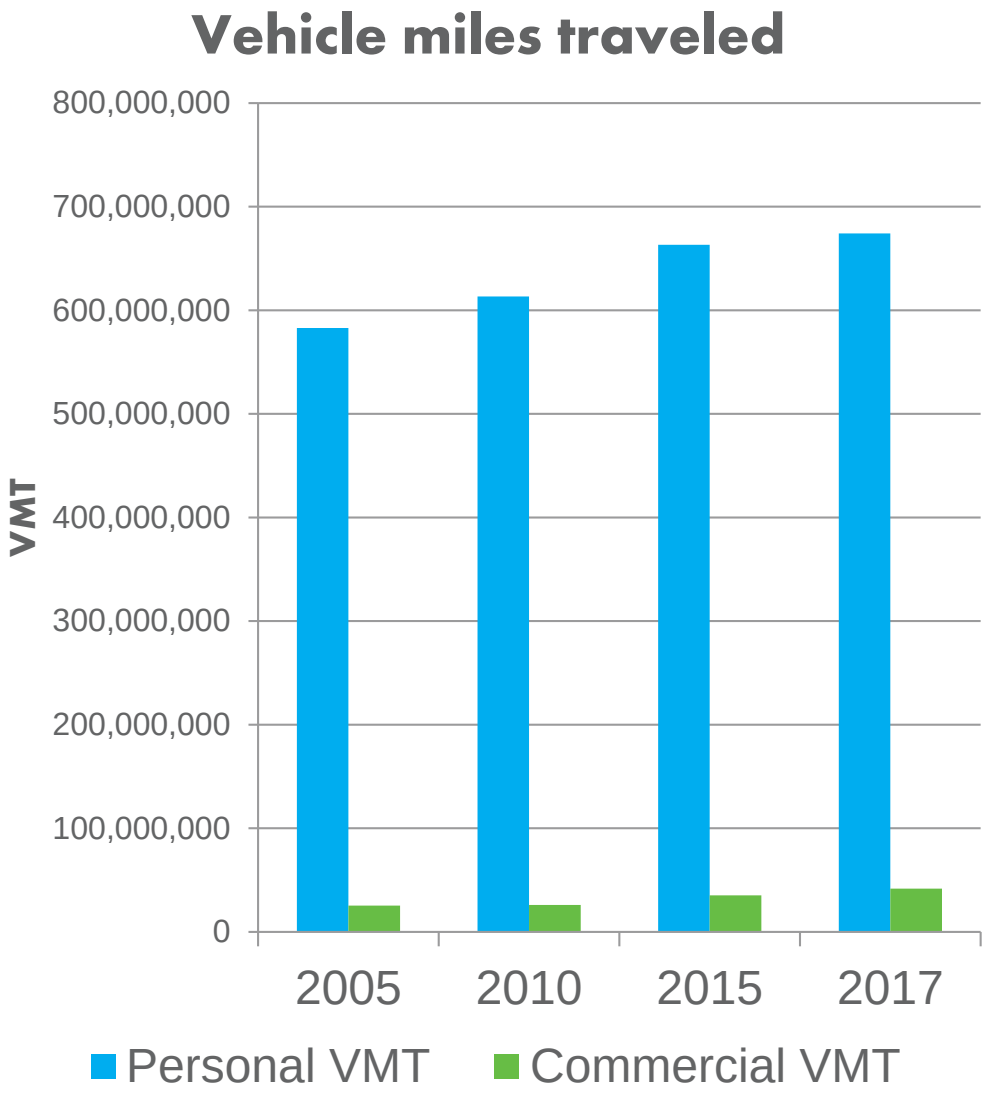


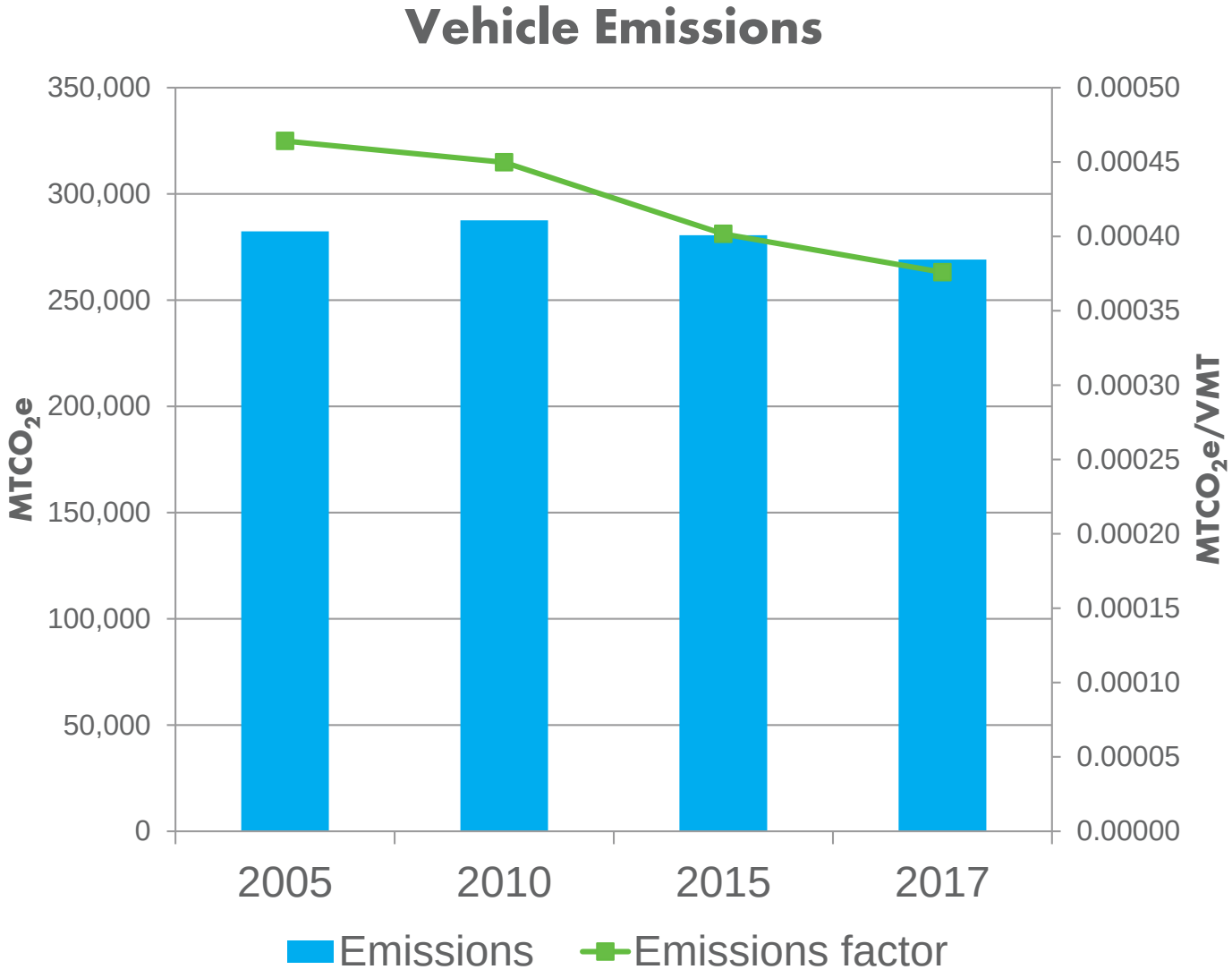
Natural Gas Trends: 2005 - 2017



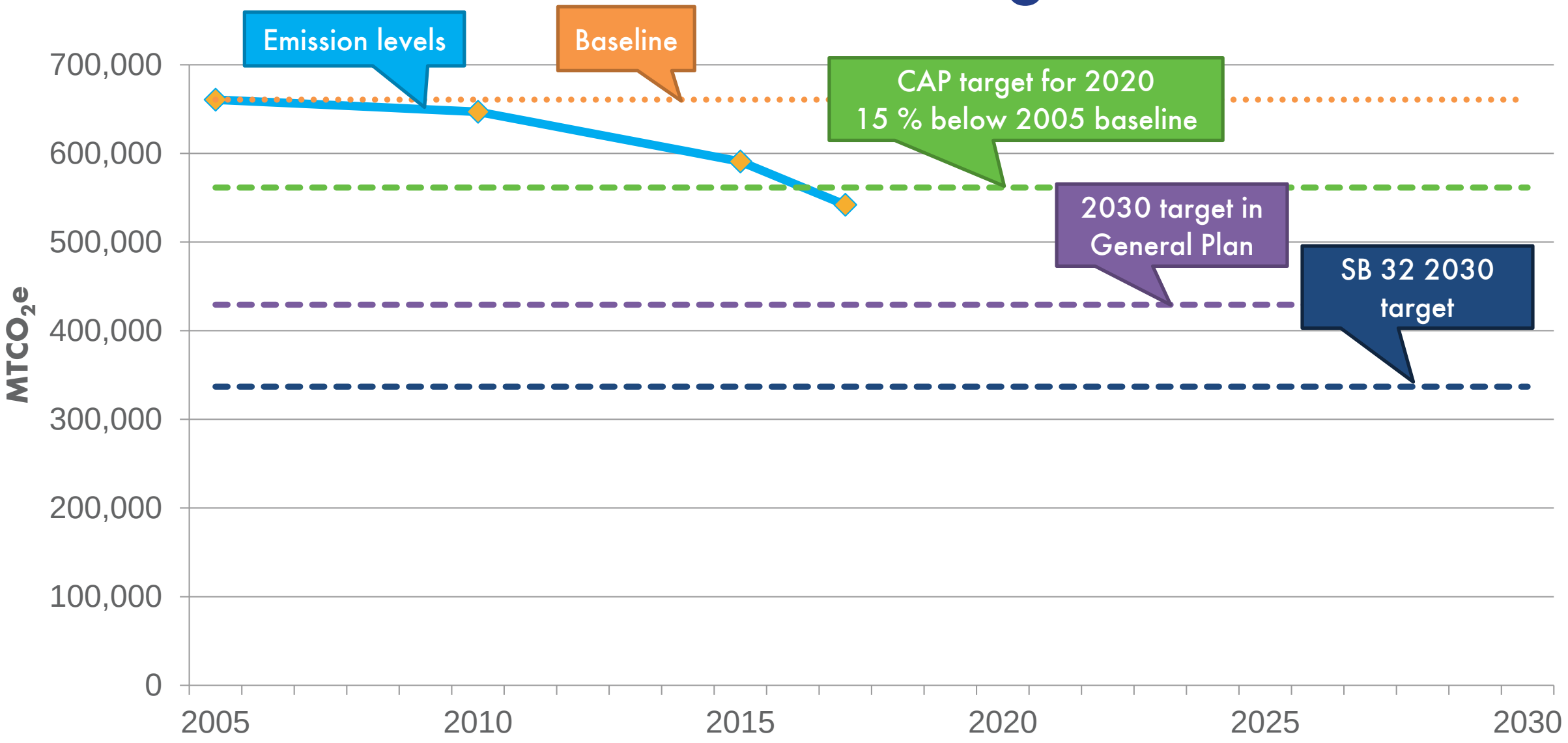


On-Road Transportation Trends: 2005 - 2017





GHG Emissions and Reduction Targets



Next Steps

- Forecast GHG emissions.
- Assess effects of existing and planned state, regional, and local policies.
- Develop GHG reduction strategies.
- Engage community.

Next Meetings

Date	Topics
March 13	Present reductions from existing efforts, review forecast and reduction targets, and discuss GHG reduction measures.
April 10	Continue discussion of GHG reduction measures.
July 10	Present updates on community engagement, and finalize GHG reduction measures and implementation program.
October 19	Review draft CAP and issue recommendation to City Council.

Questions?