

# Climate Action Plan (CAP)

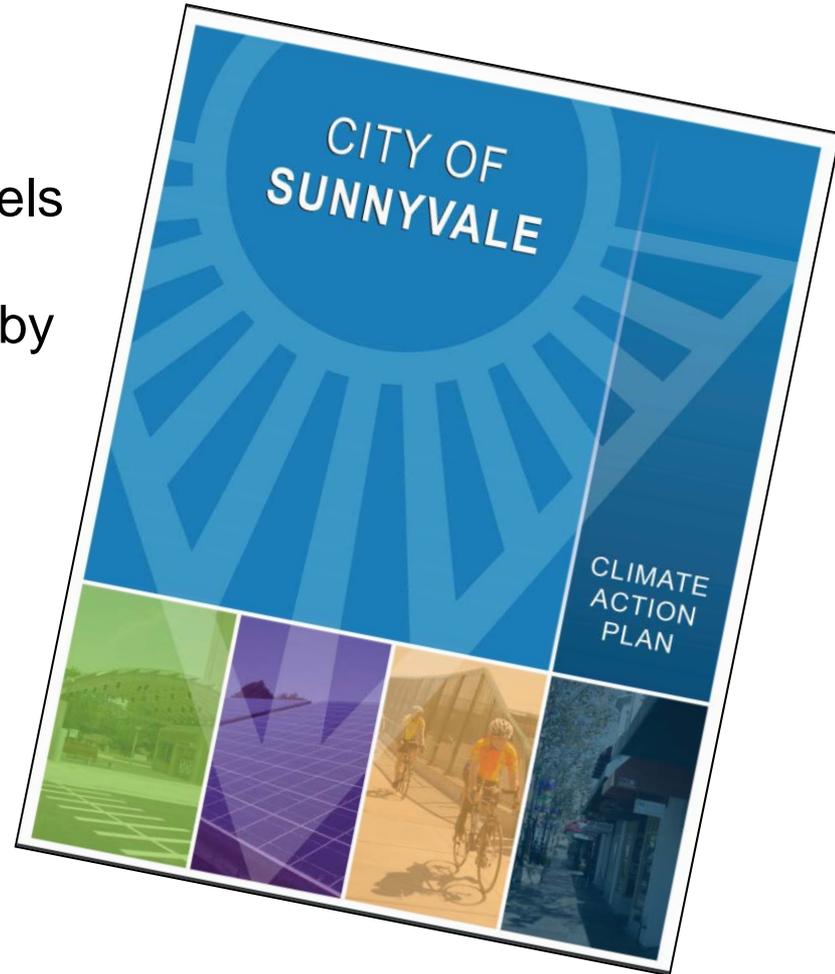
Biennial Progress Report 2016

**Presentation to City Council  
May 3, 2016**



# Recap of Climate Action Plan (CAP)

- CAP adopted in May 2014
- Workplan approved November 2014
- State and regional GHG targets:
  - 15% reduction below baseline levels by 2020
  - 80% reduction below 1990 levels by 2050
- Adopted CAP Actions:
  - **26%** GHG reduction below 2008 levels by 2020\*
  - GHG reduction strategies:
    - 11 goal areas
    - 36 measures
    - 129 actions



# Top 5 CAP Measures

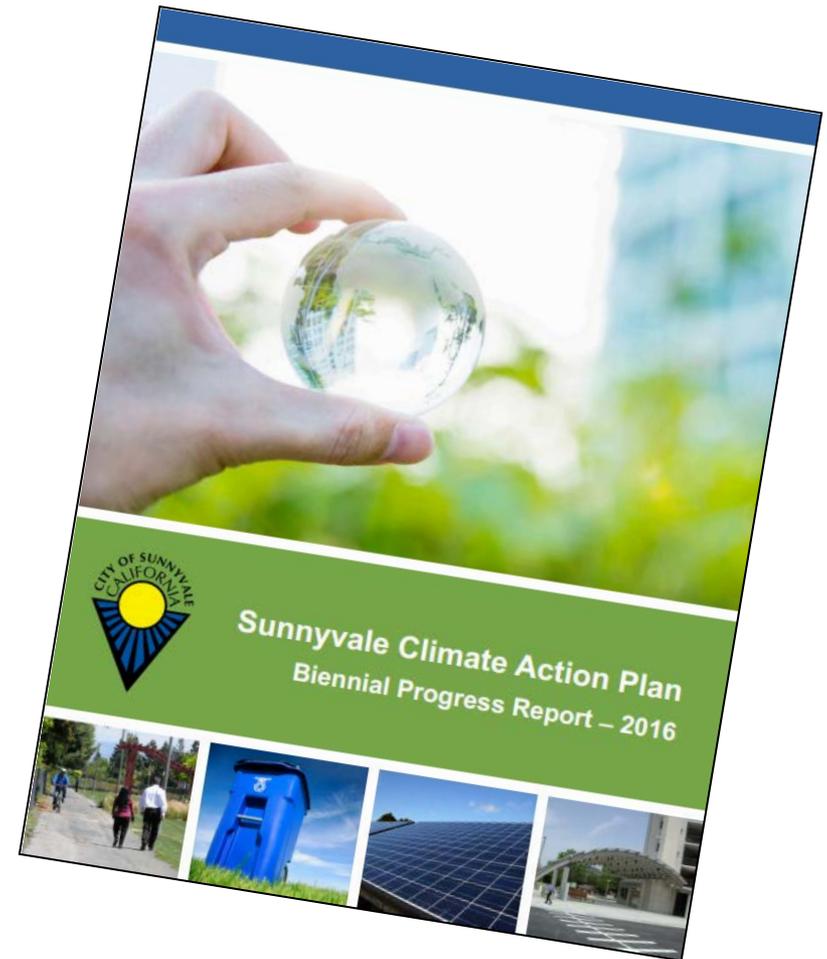
CAP Measure	Level of Effort	GHG Reduc. (MTCO <sub>2</sub> e)
Renewable Energy Portfolio (EP-1)	High	77,030
Commercial Energy Efficiency (EC-4)	High	53,190
Local Renewable Energy (EP-2)	Moderate	24,580
Recycling and Composting (LW-2)	Moderate	20,780
Transit-Oriented, Higher Density, Mixed-Use Development (LUP-2)	Moderate	14,010

# Other Noteworthy Measures

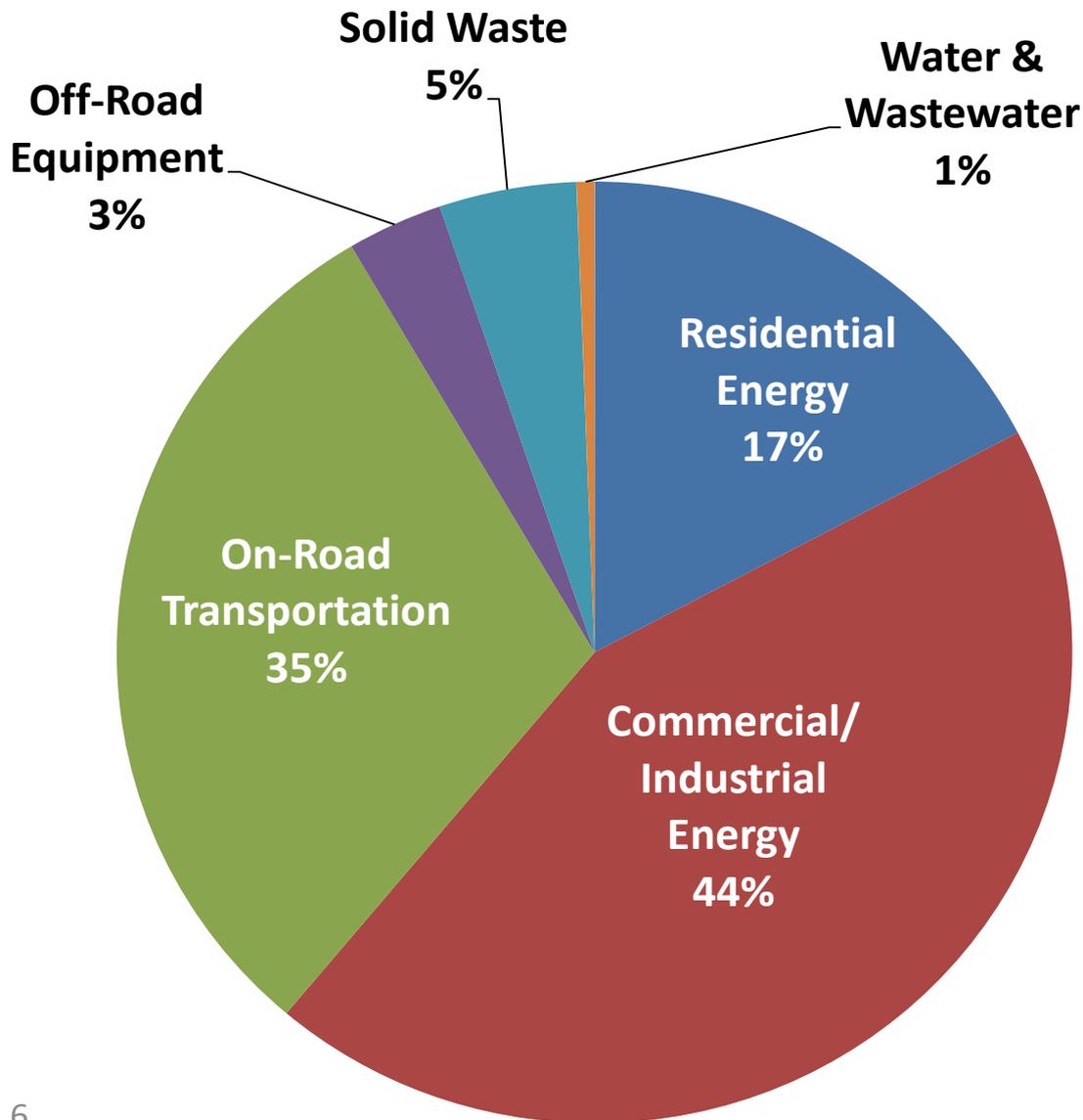
CAP Measure	Level of Effort	GHG Reduc. (MTCO2e)
Commute Programs (CTO-4)	Moderate	5,420
Bicycle, Pedestrian, and Transportation Design Elements (CTO-1)	High	4,070
Lighting Efficiency (EC-1)	Moderate	260
Water Sources and Efficiency (WC-1)	High	180
Increase and Retain Awareness of Sustainability Issues (CA-1, CA-2)	High	N/A
Adaptation Strategies	High	N/A

# CAP Biennial Report 2016

- Key components of report:
  - GHG reductions and updated GHG inventories
  - Status of CAP actions
  - Updated Work Plan 2020
  - Funding source updates



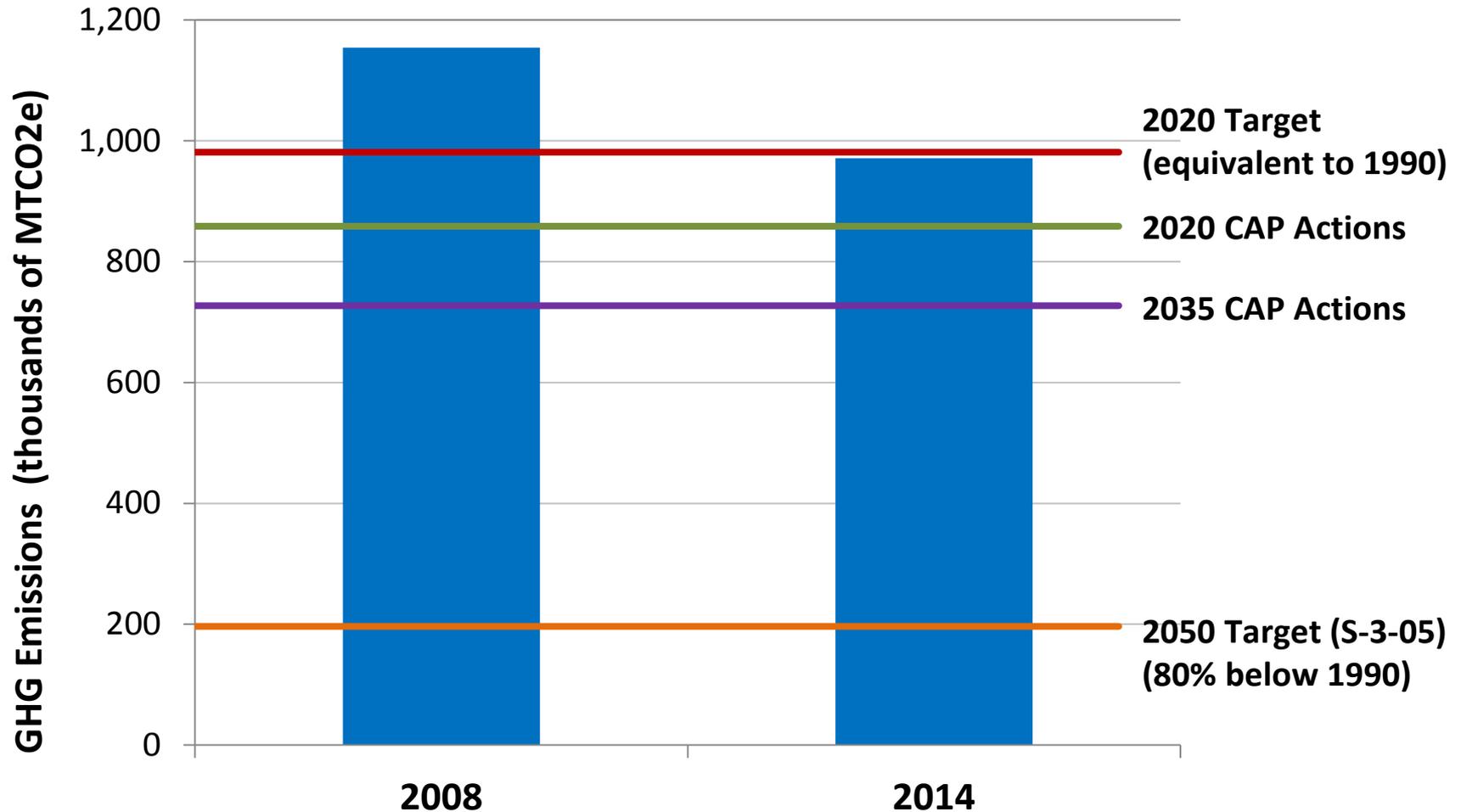
# Updated 2008 Baseline Inventory



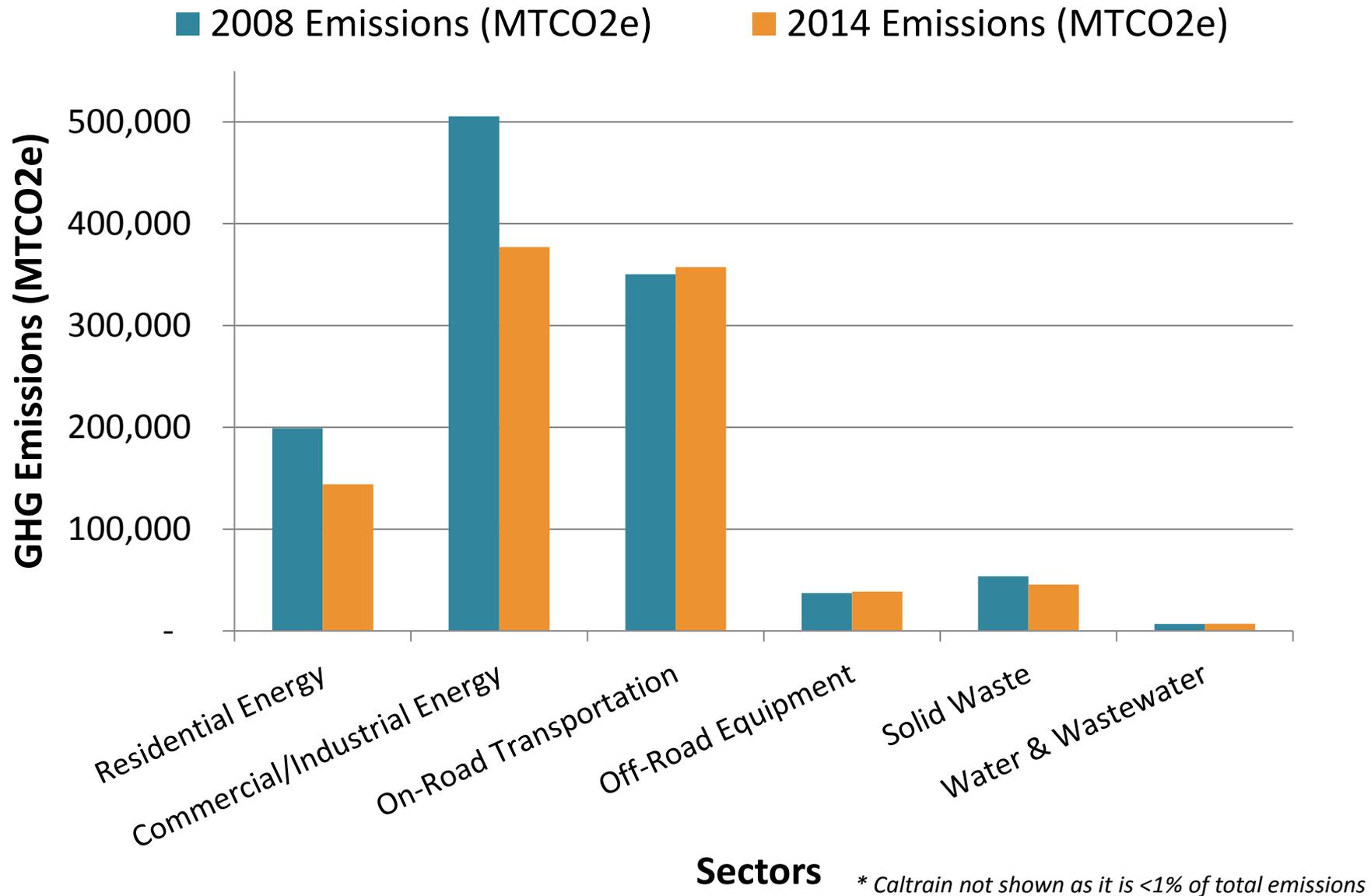
**Baseline:  
1,153,970 MTCO<sub>2</sub>e**

# Comparison of Emissions to Baseline & Targets

**2014 emissions indicate 15% reduction**



# GHG Reductions by Sector



# CAP Implementation Progress

Implementation Status	Percent	Number of Actions
Ongoing or completed	57%	74
In progress	16%	20
Scheduled for 2014-2015 (not yet begun)	6%	8
Scheduled to begin later 2016-2020	20%	25

Workload	Baseline Effort	Expanded Effort	New Effort
On-going and Completed Actions	40	34	-
In Progress Actions	5	5	10

# Noteworthy Trends

- Residential Energy Down
  - - 8% overall electricity use
  - - 20% overall natural gas use
- Commercial/Industrial Energy Use Flat
  - 1.7 million new sq. ft. of office/industrial
- Total Vehicle Miles Traveled (VMT) Up
  - + 7% total VMT
  - + 2% emissions from transportation sector



# CAP Implementation – Progress Highlights

- 64% solid waste diversion rate
- 25% reduction in water use
- CalTrain ridership up 45%
- 41% students using non-motorized transport to school (up from 14%)



# CAP Implementation – Key Initiatives Underway

- Community Choice Energy
- Energize Sunnyvale (Georgetown Energy Prize)
- Conversion of remaining City-owned streetlights to LED
- Transportation Demand Management, Peery Park Rides Pilot
- Recycled water expansion



# CAP Implementation – New & Expanded Initiatives

- CalGreen and Green Building policy updates
- Commercial energy conservation
- Adaptation planning and preparation
- Additional study items



# Proposed changes to the CAP

- Staff have proposed revisions to some CAP actions:
  - **1 action** proposed for deletion due to its implementation challenges
  - **5 actions** with proposed language changes to reflect current context
  - **6 actions** with proposed changes to performance indicators (which are used to estimate GHG reductions from implementation)

# Conclusions

- Great progress on GHG reductions, both locally and with state policy implementation
- 2020 target is readily achievable; next targets are big reaches
- Key initiatives have been launched and are in progress
- Significant workload and focus on additional initiatives ahead

# Recommendations

1. Accept the CAP Biennial Report 2016
2. Approve the staff recommended changes to the CAP reduction measures and performance indicators as shown in Attachment 2

