



CITY OF
HAYWARD
HEART OF THE BAY

**Sustainability Policies in the
2040 General Plan**

July 10, 2013

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General Plan Update

- April 3, 2013 – Sustainability Committee Meeting
- April 4, 2013 – General Plan Update Task Force
- July 10, 2013 – Sustainability Committee Meeting
- August 8, 2013 – General Plan Update Task Force
- September 2013 – Draft General Plan to be released
- June 2014 – New General Plan to be adopted



GHG Emission Projections

Business as Usual

	2005	2010	2020	2040	2050
2009 CAP (Scenario 1)			1,460,000		2,130,000
Revised Estimate	1,183,279	1,118,561	1,145,345	1,333,686	1,432,603

Legislative Adjustments

	2005	2020	2050
2009 CAP (Scenario 2)		1,190,000	1,260,000
Revised Estimate	1,183,279	1,015,048	1,250,630

GHG Reduction Goals (2009 CAP)

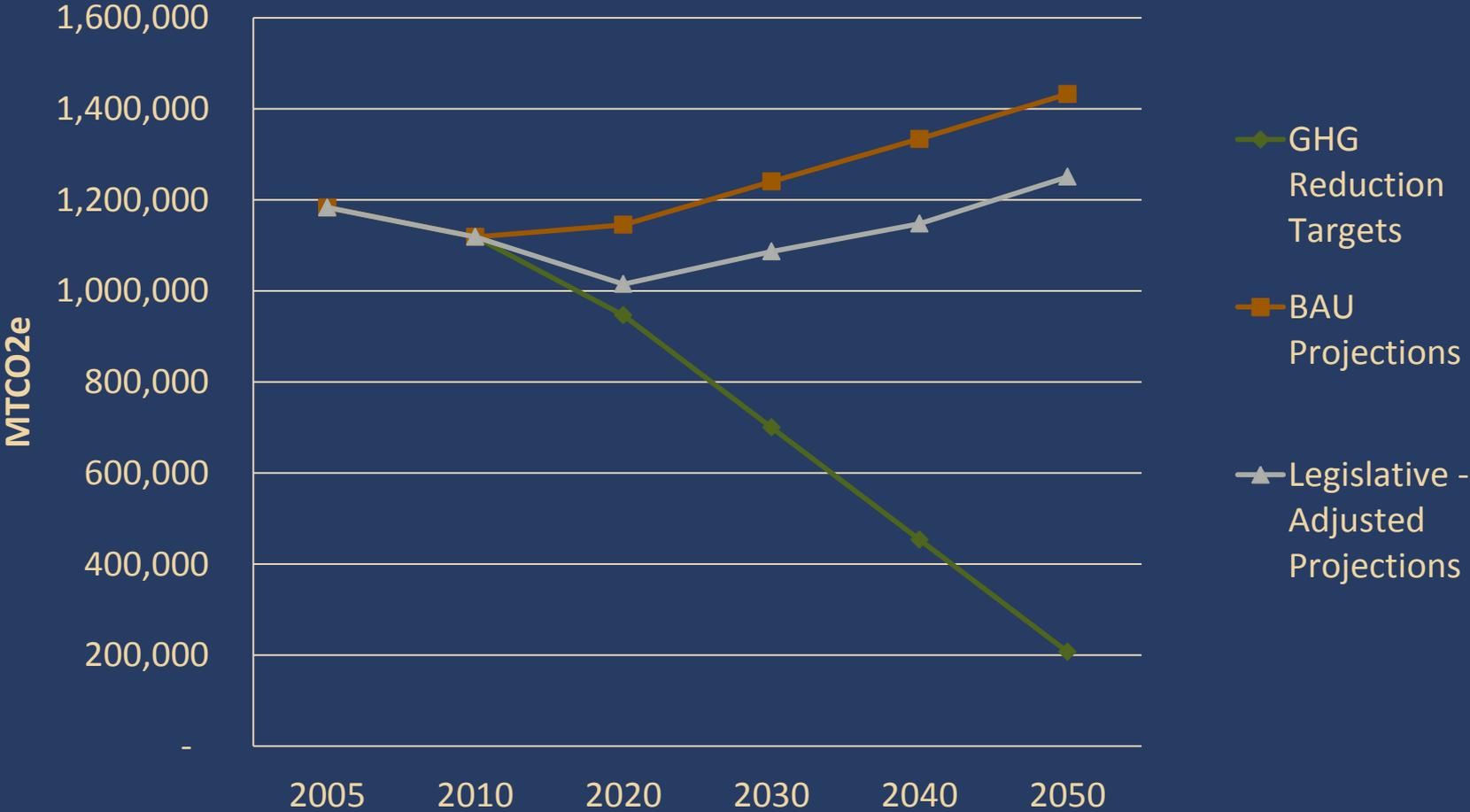
- 6% below 2005 levels by 2013
- 12.5% below 2005 levels by 2020
- 82.5% below 2005 levels by 2050

Proposed GHG Reduction Goals

GHG Emissions (MT CO₂e/year)

Year	Baseline	BAU Projection	Legislative-Adjusted Projection	Reduction Targets (Proposed)	Net Reductions to Achieve Targets	% Below 2005 Baseline	% Below BAU	% Below Legislative Adjusted
2005	1,183,279	-	-	-	-	-	-	-
2010	1,118,561	-	-	-	-	-	-	-
2020	-	1,145,345	1,015,048	946,623	68,425	20.0%	17.4%	6.7%
2040	-	1,333,686	1,147,759	453,590	694,169	62.7%	66.0%	60.5%
2050	-	1,432,603	1,250,630	207,074	1,043,556	82.5%	85.5%	83.4%

Projections and Recommended Targets



Nine Implementation Strategies

1. Transportation & Land Use: Reduce Vehicle Miles Traveled
2. Transportation: Decrease Carbon-intensity of Vehicles
3. Energy: Improve Energy Performance of Existing Buildings
4. Energy: Improve Energy Performance of New Buildings
5. Energy: Use Renewable Energy
6. Solid Waste: Increase Waste Reduction and Recycling
7. Sequester Carbon
8. Climate Change Adaptation
9. Engage and Educate Community
10. Economic Development (NEW)
11. Quality of Life (NEW)

GHG Reduction Estimates

Strategy 1: Reduce Vehicle Miles Traveled

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
32,638	67,194	12,200	21,374	23,153

Emissions reductions for 1.4 (parking strategies) and 1.5 (buses and shuttles) have yet to be quantified.

GHG Reduction Estimates

Strategy 2: Decrease Carbon-intensity of Vehicles

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
129,060	532,735	-	-	-

- Revised actions focus on local actions that support state-level programs.
- These will not result in quantifiable reductions, but have been reflected in the BAU with legislative adjustments.

GHG Reduction Estimates

Strategy 3: Improve Energy Performance of Existing Buildings

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
8,723	205,890	4,893	14,909	19,164

- Action 3.1 (RECO) has been revised to assume implementation by 2017
- RECO assumes lower participation rates and lower efficiency gains.
- Actions 3.10 through 3.14 are new actions that call for disclosing energy use data

GHG Reduction Estimates

Strategy 4: Improve Energy Performance of New Buildings

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
5,519	97,089	-	-	-

- Assumes eliminating Actions 4.1 (Green Building Ordinance for residential buildings) and 4.2 (Green Building Ordinance for commercial buildings).

GHG Reduction Estimates

Strategy 5: Use Renewable Energy

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
14,750	84,863	71,672	94,335	101,476
Without CCA		10,211	22,897	22,956

- Action 5.3 (Require Renewable Energy on New Development) has been deleted.
- Original Action 5.4, now Action 5.3, calls for participation in Community Choice Aggregation (CCA).

GHG Reduction Estimates

Strategy 6: Consumption, Waste & Recycling

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
22,209	69,336	2,426	2,830	3,032

- Some of the Actions in Strategy 6 have been fully implemented and have been deleted.
- Actions 6.7 through 6.10 are new and address overall consumption, water conservation, use of recycled water, rainwater harvesting, and use of greywater systems.

GHG Reduction Estimates

Strategy 7: Carbon Sequestration

Estimated Annual Emissions Reductions (metric tons CO₂e)

2009 CAP		Proposed CAP Actions		
2020	2050	2020	2040	2050
5	316		429	429

No changes are proposed

GHG Reduction Estimates – Strategies 8, 9, 10 & 11

- No quantifiable reductions

Summary of GRG Emissions Reduction Measures Performance

Summary of Greenhouse Gas Emissions Reduction Measures Performance

Action Number and Description	GHG Emissions Reduction (MT CO ₂ e/year)		
	2020	2040	2050
Strategy 1	12,200	21,374	23,153
Strategy 3	4,893	14,909	19,164
Strategy 5	71,672	94,335	101,476
Strategy 6	2,426	2,830	3,032
Strategy 7		429	429
Total	91,190	133,878	147,255
Recommended GHG Reduction Target	68,425	694,169	1,043,556
GHG Emissions Reduction Gap	22,765	-560,291	-896,301

Without CCA	29,759	62,440	68,735
Recommended GHG Reduction Target	68,425	694,169	1,043,556
GHG Emissions Reduction Gap	-38,666	-631,729	-974,821

Next Steps

Date	Task
July 10	Sustainability Committee Meeting
August 8	General Plan Update Task Force Meeting
July 30	New policies related to GHG reductions to Planning Commission and City Council
October 2	Sustainability Committee Meeting

