

Alameda County (Unincorporated areas) Community Climate Action Plan

Draft Measures – an opportunity to comment

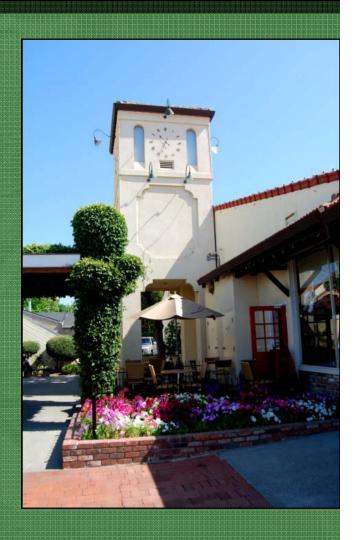
Public Workshops
1st and 2nd December, 2009

Agenda – Feedback on proposed measures

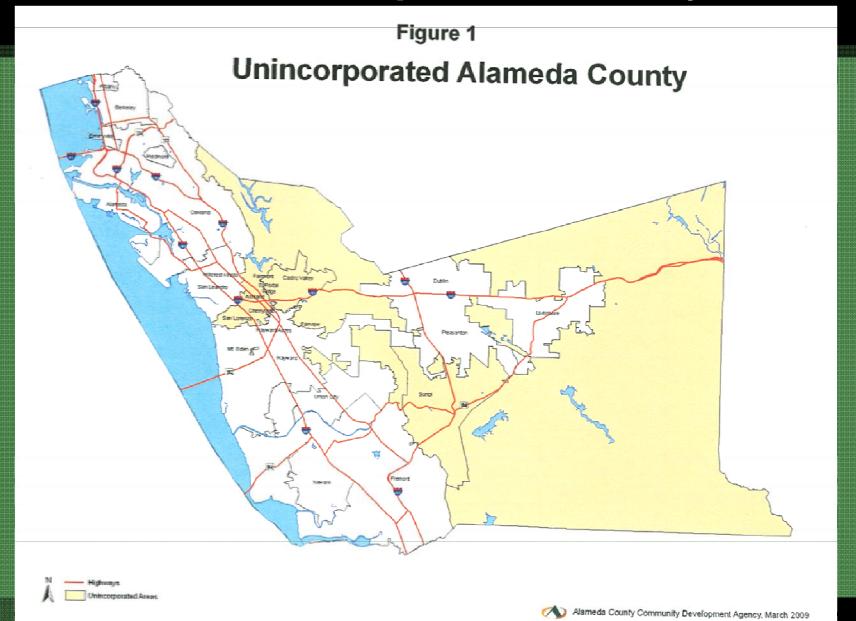
- 6:00 6:25 Plenary introductory presentation
- 6:25 6:40 General Q&A Session
- 6:40 7:00 Breakout Session 1
- 7:05 7:25 Breakout Session 2
- 7:30 7:50 Breakout Session 3
- 7:50 8:00 Closing/Individual Q&A Session

Alameda CAP Presentation

- Recap on the CAP process
- Climate Change and the local Context
- Selected Climate Action Measures and survey responses
 - Transportation &
 - Buildings & Energy Use
 - Land Use
 - Waste & Water
 - Green Infrastructure



What is Unincorporated County?



CAP Preparation Schedule

- CAP Preparation Began June 2009
- Public Outreach and Survey August November 2009
- Public Workshops September & December 2009
- Analysis and Selection of Draft CAP Measures Sept-Nov 2009
- Release of Draft CAP –Dec 2009
- Public Review Period -Dec 09 Jan 10
- Draft CAP Public Hearings early 2010
- Adoption of CAP by County Supervisors March 2010

CAP Preparation Schedule

- CAP Preparation Began June 2009
- Public Outreach and Survey August November 2009 (329 respondents, 5 pages of comments/suggestions)
- Public Workshops September & December 2009
- Analysis and Selection of Draft CAP Measures Sept-Dec 2009
- Release of Draft CAP –Dec 2009
- Public Review Period –Dec 09 Jan 10
- Draft CAP Public Hearings early 2010
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County Municipal CAP

- Being prepared separately by GSA
- Working in collaboration with Community CAP
- Overarching principles and commitments plus measures
- Initial plan in draft
- Formal review and adoption early 2010

Climate Change Increasing Greenhouse Gases



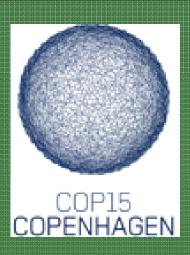
Atmospheric greenhouse gas concentrations are higher than they have been in the last 400,000 + years

Survey Results

25. What is your level of concern about climate change? (Select one.)

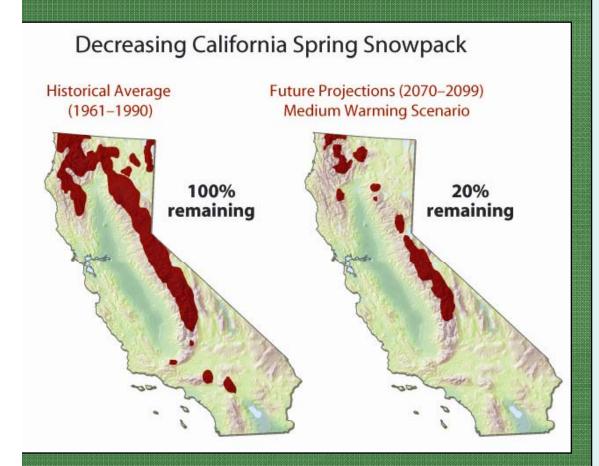
		Response Percent	Response Count
Not at all		6.7%	21
A little		6.4%	20
Somewhat		21.2%	66
Very Concerned		49.0%	153
Extremely Concerned		16.7%	52
	answered question		312
	skipped question		17

Climate Change – Copenhagen Dec 09

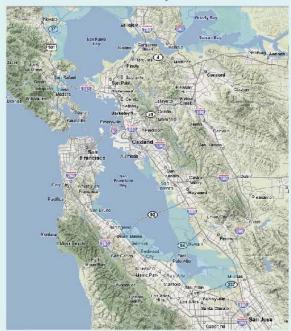


- Next United Nations climate change conference to establish global carbon reduction goals
- Governments to try and reach agreement on a comprehensive, fair and effective deal on climate change
- EU commissioner is urging a 30% emission reduction by Europe
- Obama expected to announce a commitment to a 17% reduction from 2005 levels by US by 2020

Climate Change Local Effects

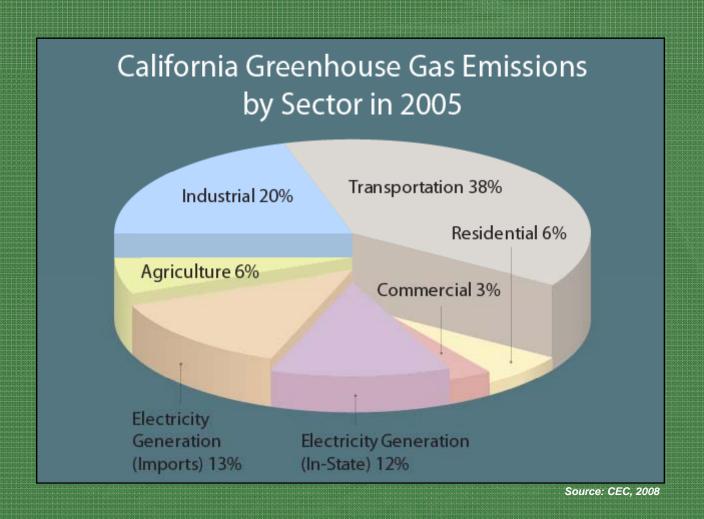


Sea Level Rise in SF Bay Area

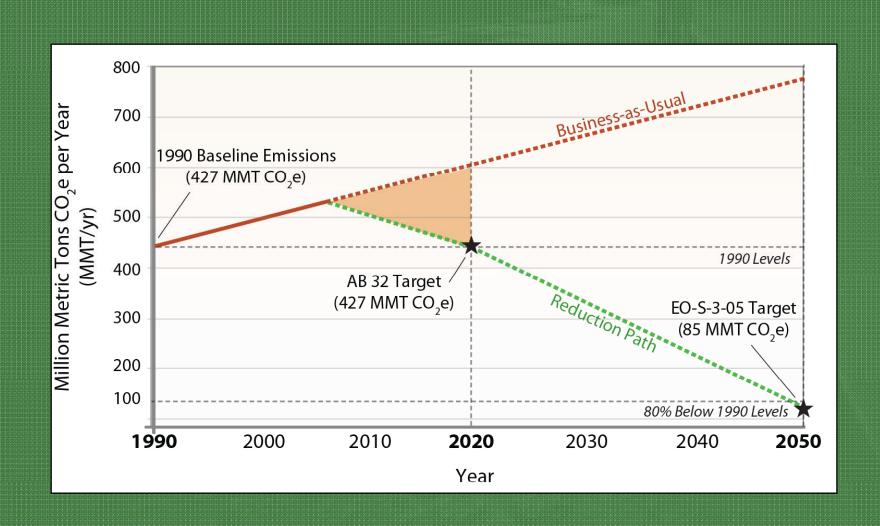


Areas Likely to be Inundated by 36-Inch Sea Level Rise

The California Context State-Wide GHG Emissions Inventory



The Context State-Wide Emissions, Projection, and Targets



The California Context

Key State Legislation

State of California Global Warming Legislation:

- California Global Warming Solutions Act Assembly Bill 32 (AB 32)
 Reduce Greenhouse Gas Emissions to 1990 Levels by 2020
- Executive Order S-3-05 (EO S-3-05)
 Reduce to 80% below 1990 Levels by 2050
- Senate Bill 375 (2008)
 Require regional land use, transportation, and housing plans to comply with regional GHG reduction targets

Climate Action in Alameda County

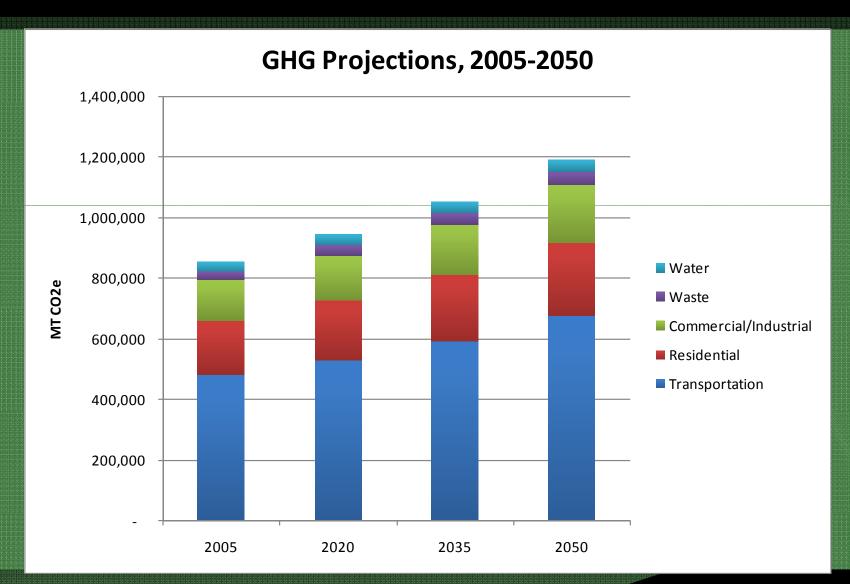


Alameda Unincorporated County GHG Emissions Inventory

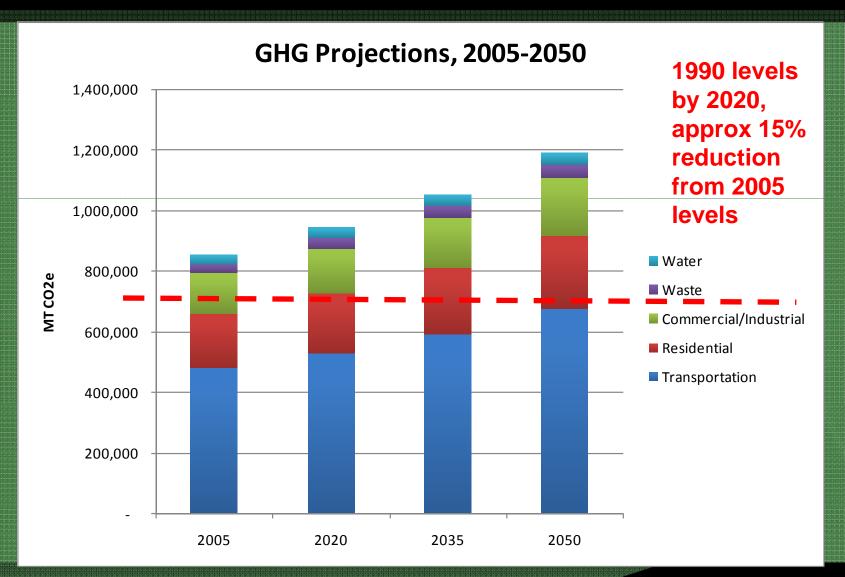
Table II-3.
Alameda County Baseline GHG Emissions and Percent Contributions

Community Soctor	Emis	Emissions Baseline	
Community Sector	Metric Tons CO₂e	Percent	
Residential Energy Use	179,864	21.0%	
Commercial/ Industrial Energy Use	132,768	15.5%	
Transportation ¹	480,529	56.2%	
Waste	30,419	3.6%	
Water Consumption	30,947	3.6%	
Total	854,527	100%	

Climate Action in Alameda County Greenhouse Gas Emissions 2005 to 2020



Climate Action in Alameda County Greenhouse Gas Emissions 2005 to 2020



Climate Action Plan

Part I: Introduction and context

Part II: Measures



Part III: Implementation

Appendices

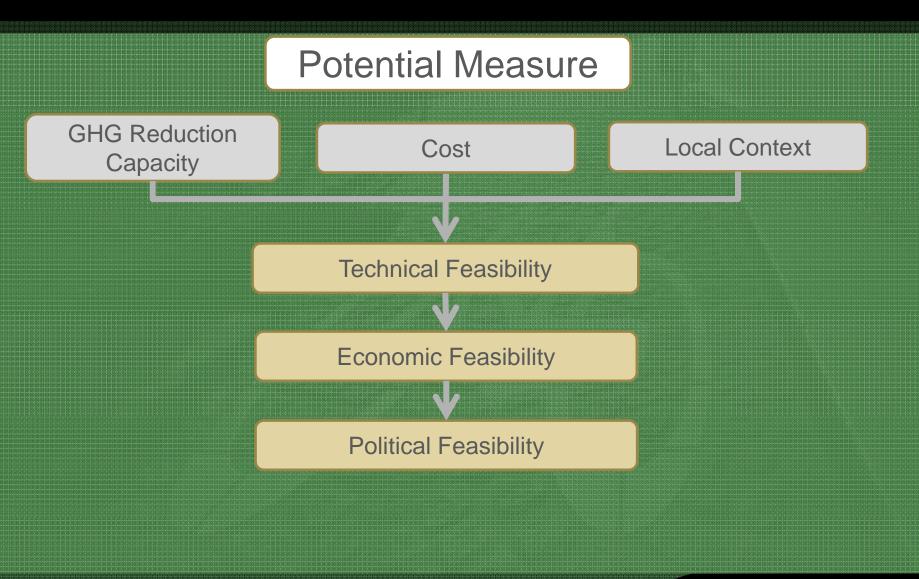
Potential Measure

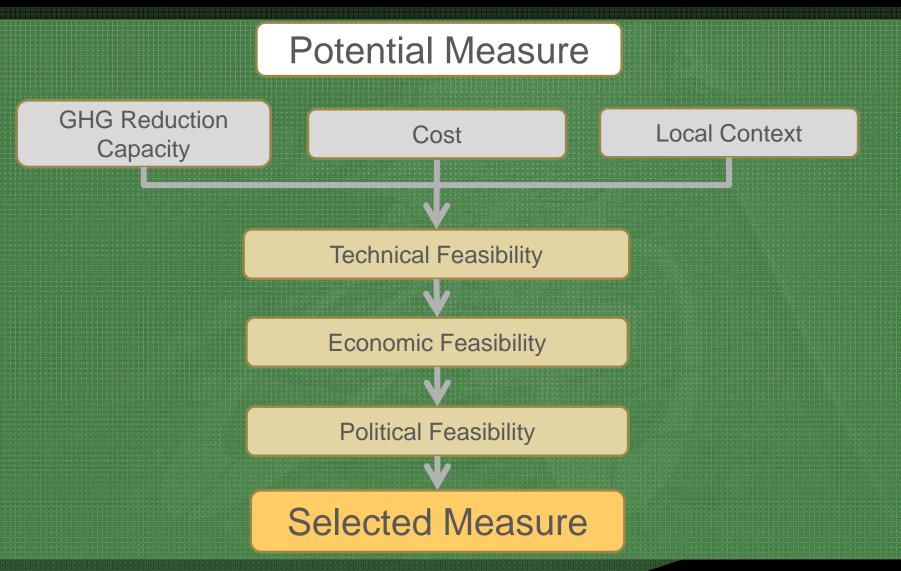
Potential Measure

GHG Reduction Capacity

Cost

Local Context





Climate Action Measures



Land Use – 5 measures (3)





Transportation – 15 measures (5)





Buildings and Energy – 17 measures (5)



Waste – 4 measures (1)

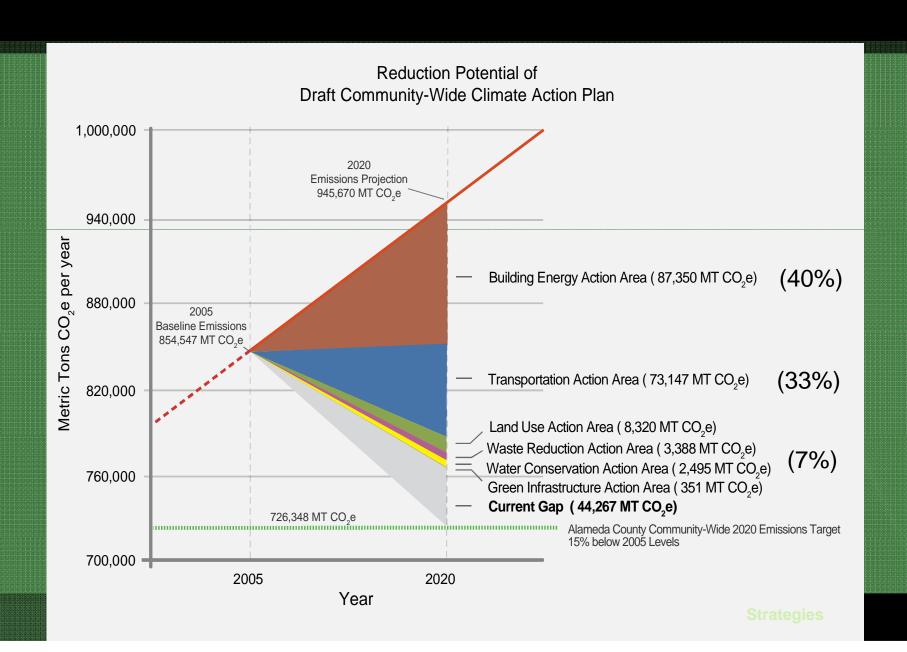


Water – 4 measures (0)



Green Infrastructure – 2 measures (1)

Reduction Potential of Proposed Measures



Part II: CAP measures – info included

L1: Title of measure

- GHG reduction potential: xxxx MT CO₂
- Cost to county: low \$50,000/ medium \$250,000/ high \$ +
- Cost to resident/building owner:
 - None / Low \$50 / Medium \$250 / High +
- Savings to resident/building owner:
 - None / Low \$50 / Medium \$250 / High +
- Description of measure

Part II: CAP measures - info included

- Implementation Action e.g. conduct study of xx
- Timeframe short 1-2 years / medium 2-5 years / long 5-10 years
- Responsibility County department
- Progress indicators e.g. miles of bike lane
- Targets e.g. x miles by 2015
- Potential funding options



GHG Reduction Potential: 2,100 MTCO.e

Community Co-Benefits:





Cost to County: Low

Private Cost: Yes

Potential **Funding Sources:** City General Fund; AB 811; Utilities rebates

Building Energy - 4.1:

Develop a comprehensive renewable energy program that encourages residential property owners to install solar energy systems.

Measure Description:

The County will develop an outreach program that encourages residential owners to install solar photovoltaic and solar hot water systems. The program will aim to maximize participation of the community in renewable energy generation. As described in measure Building Energy 2.2, the County will partner with adjacent cities and ABAG to create an effective renewable energy and energy efficiency financing program. Renewable and Solar Technology program and will allow residential and commercial property owners to repay the cost of solar energy systems through a voluntary tax increment on their property tax bill. The County will pay the installation cost of a renewable energy system for approved applicants. In turn, the County will add a line item to the owners' property tax bill sufficient to repay the cost of the energy project plus interest over 20 years. If the property is sold, both the renewable energy system and the remaining debt stay with the property. Property owners will also be able to finance the renewable systems by using this program in conjunction with the California Solar Initiative rebate program. Through AB 811, a City or County can adopt a voluntary community benefit district for this purpose. Stopwaste and ABAG are currently exploring the viability of setting up a program. Obtaining low-cost bond financing is critical. Current bond interest rates assume 7 percent. Under a 7 percent interest rate, property owners with excellent credit have access to lower-cost financing through traditional banks. The specific logistics of the program have yet to be determined, but its participation will be highly dependent on the availability of low-cost financing.

Imp	olementation Action	Timetables	Responsibility
A	Amend the Green Building Ordi- nance to incorporate the Tier 2 energy efficiency standards con- tained in Section 503.1.2 of the 2008 California Green Building Code as the required standards for energy efficiency for new construction.	Short Term (1-2 years)	County Supervisors; Building Department; Finance Department
Pro	gress Indicators	Targets	
Ī	Percentage of residential build- ings that have installed photo- voltaic or solar hot water heaters	10% by 2015 20% by 2020	

Measure Selection

Climate Action Measures

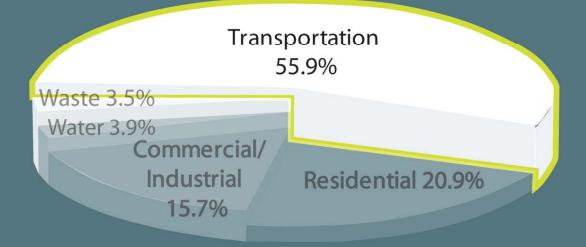






Transportation

Alameda County Greenhouse Gas Emissions Inventory Transportation Sector = 55.9%



6. What is your usual method of transportation to/from work? (Select all that apply.) Response Response Percent Count Car (by self) 59.9% 193 Carpool/Shared Ride 8.7% 28 Bicycle 6.8% 22 BART 23.6% 76 Bus 6.5% 21 Work from home 12.7% 41 Walk 13.4% 43 Ferry 0.3% 1 Not Applicable 16.5% 53 answered question 322 skipped question 7

7. What is your usual method of transportation to/from local shops and services? (Select all that apply.)

		Response Percent	Response Count
Car (by self)		84.1%	270
Carpool/Shared Ride		11.5%	37
Bicycle		7.5%	24
BART		9.7%	31
Bus		4.4%	14
Walk		21.5%	69
Not Applicable		0.6%	2
	answered question		321
	skippe	ed question	8

9. Other than for commuting to work, how often do you ride public transportation? (Select one.)

		Response Percent	Response Count
Never		15.4%	49
A few times a year		51.1%	163
Once a month		17.6%	56
Weekly		8.5%	27
A few times a week		6.3%	20
Daily		1.3%	4
	answered question		319
	skippe	ed question	10

10. What would cause you to use more public transportation? (Select all that apply.)

		Response Percent	Response Count
Cleaner, Sater System		18.6%	55
Closer to home/work		31.9%	94
More service		30.2%	89
More information		4.7%	14
Free shuttle to BART, Bus		33.9%	100
Reduced rates or fares		28.1%	83
If it was as fast as driving		32.5%	96
Other		15.6%	46
	answered question		295
	skipped question		34
		Survey	

15. What would encourage you to ride a bicycle more often? (Select all that apply.)

		Response Percent	Response Count
Safer bike lines		67.4%	122
More bike lanes		48.1%	87
Bike-Share/Bike Rental Options		12.7%	23
More secure locks		20.4%	37
More BART bike storage		21.5%	39
More BART bike hours		14.9%	27
Route Information		9.9%	18
Free Safety Classes		10.5%	19
	answered question		181
	skippe	ed question	148

Climate Action Measures







Transportation

Objectives:

- Improve Walking and Biking Conditions
- Make Public Transit More User Friendly
- Promote Pedestrian- and Transit-oriented development

Climate Action Measures







- T 1 Improve bicycle infrastructure near community activity areas.
 - GHG REDUCTION POTENTIAL: 7,650 MT CO₂e
 - COST TO COUNTY: HIGH
 - COST TO RESIDENT or BUILDING OWNER:
 NONE
 - SAVINGS TO RESIDENT or BUILDING OWNER:
 NONE









T - 1 Improve bicycle infrastructure near community activity areas.

lm	olementation Action	Timeframe	Responsibility
Α	Amend existing Bicycle Master Plan to prioritize bicycle	Short Term	Transportation;
	infrastructure improvements that increase resident access	(1-2 years)	Public Works
	to community activity centers.		
В	Implement bicycle infrastructure improvements serving	Medium	
	schools and transit stations.	Term	
		(2-5 years)	
С	Implement bicycle infrastructure improvements serving	Long Term	
	employment centers, neighborhood commercial centers,	(5-10 years)	
	and downtown business districts.		
Progress Indicators			Targets
i	Miles of additional bicycle network.	XX by 2015;	
		<mark>></mark>	<mark>(X</mark> by 2020

Example measures







- T 15 Develop commercial area parking fee.
 - GHG REDUCTION POTENTIAL: 12,660 MT CO₂e
 - COST TO COUNTY: MEDIUM
 - COST TO RESIDENT or BUILDING OWNER:
 MEDIUM
 - SAVINGS TO RESIDENT or BUILDING OWNER:
 NONE







T – 15 Develop commercial area parking fee.

lm	Implementation Action		Responsibility
Α	Set up commercial parking fee task force to guide fee	Short Term	County Supervisors;
	development and implementation.	(1-2 years)	Planning
В	Adopt an ordinance that establishes a per hour fee for	Medium	County Supervisors;
	public parking in commercial districts. Establish a	Term	Planning
	residential parking permit system for adjacent areas.	(2-5 years)	
С	Work with Alameda County cities, and other East Bay	Short Term	County Supervisors;
	jurisdictions, to develop a regional commercial district	(1-2 years)	Planning
	parking fee.		
Pro	Progress Indicators		Targets
i NA NA		NA	

Example measures

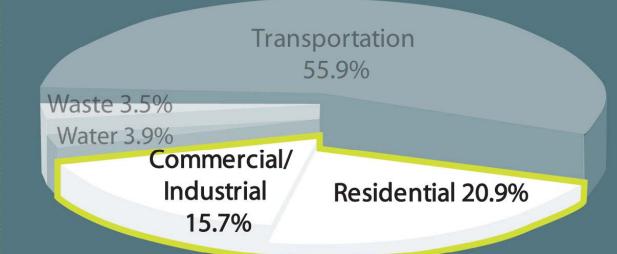
Climate Action Strategies





Buildings and Energy

Alameda County Greenhouse Gas Emissions Inventory Building Energy Sector = 36.6%



18. Please indicate if you would be willing to do any of the following in your home. (Select all that apply.)

		Response Percent	Response Count
No-Cost Audit to Identify Ways to Improve Home Energy Efficiency		58.3%	133
Use Energy Efficient Light bulbs- (~\$5 a light bulb)		43.4%	99
Replace Refrigerator with Energy Efficient Model-(~\$900)		29.4%	67
Insulate Home-(~\$4,000)		17.1%	39
Install Solar Water Heater-(~\$5,000)		36.4%	83
Install Rooftop Solar Panels (~\$18,000)		37.7%	86
	answere	ed question	228
	skippe	ed question	101

19. What would encourage you to install any of the technologies mentioned in Question 18? (Select all that apply.) Response Response Percent Count More Information on the 31.0% 77 Energy/Financial Savings Grants or Incentive Programs to 79.4% 197 Offset Costs Low Interest Loans 32.7% 81 List of Reliable Contractors or 32.3% 80 Installers Lower Utility Bills 58.9% 146 answered question 248 skipped question 81

Survey

Climate Action Strategies





Buildings and Energy

Objectives:

- Retrofit Existing Residential Buildings
- Retrofit Existing Commercial Buildings
- Energy Performance in New Construction
- Maximize Use of Renewable Energy
- Community Energy Management





- E 1 Evaluate the potential for community choice aggregation in unincorporated Alameda County.
 - GHG REDUCTION POTENTIAL: TBD MT CO₂e
 - COST TO COUNTY: LOW
 - COST TO RESIDENT or BUILDING OWNER:
 NONE
 - SAVINGS TO RESIDENT or BUILDING OWNER: MEDIUM





E - 1 Evaluate the potential for community choice aggregation in unincorporated Alameda County.

lm	plementation Action	Timeframe	Responsibility
Α	Conduct a thorough feasibility study to determine	Short Term	Finance;
	whether a community choice aggregation program is	(1-2 years)	Community
	appropriate for unincorporated Alameda County.		Development;
			Public Works
Progress Indicators			Targets
i	NA	NA	



Example measures





E – 4 Develop comprehensive outreach program to facilitate voluntary home energy efficiency improvements.

- GHG REDUCTION POTENTIAL:
 SUPPORTING
- COST TO COUNTY: LOW
- COST TO RESIDENT or BUILDING OWNER:
 NONE
- SAVINGS TO RESIDENT or BUILDING OWNER: NONE (indirect)





E – 4 Develop comprehensive outreach program to facilitate voluntary home energ efficiency improvements.

lm	plementation Action	Timeframe	Responsibility
Α	A Work with PG&E and other community	Short Term	Community
	organizations to develop energy efficiency outreach	(1-2 years)	Development
	programs for residents and multifamily property		
	owners.		
В	Develop and maintain a website describing energy	Short Term	Community
	efficiency rebates, incentives, and case studies.	(1-2 years)	Development
Pro	ogress Indicators	•	Targets
i	Number of households serviced by community	1,25	50 by 2015
	energy efficiency organizations.	2,500 by 2020	
ii	Participation in energy efficiency rebate programs	10% by 2015	
	(currently around 5% of all accounts),		





- E 11 Require all new construction to achieve California Green Building Code Tier II Energy Efficiency Standards
 - GHG REDUCTION POTENTIAL: 10,185 MT
 CO₂e
 - COST TO COUNTY: MEDIUM
 - COST TO RESIDENT or BUILDING OWNER:
 HIGH
 - SAVINGS TO RESIDENT or BUILDING OWNER: HIGH





※ E − 11 Require all new construction to achieve California Green Building Code Tier II Energy Efficiency Standards

lm	plementation Action	Timeframe	Responsibility
A	Amend the County's Green Building Ordinance to incorporate the Tier II energy efficiency standards contained in Section 503.1.2 of the 2008 California Green Building Code as the required standards for energy efficiency for new construction.	Short Term (1-2 years)	County Supervisors; Building
Progress Indicators			Targets
i	NA	NA	

Example measures



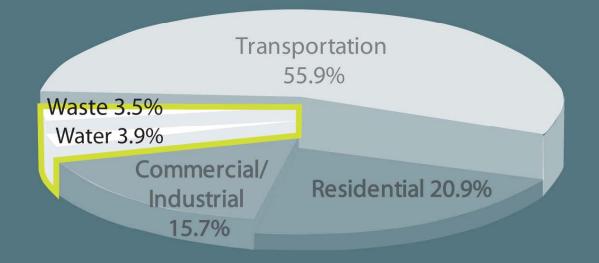






Land Use, Waste, Water, and Green Infrastructure

Alameda County Greenhouse Gas Emissions Inventory Water and Waste Sector = 7.4%



Survey results

8. How long would it take to safely walk to purchase most daily goods and services? (Select one.)

		Response Percent	Response Count
Less than 5 minutes		2.9%	9
5-10 minutes		6.3%	20
10-15 minutes		14.9%	47
15 minutes or more		62.9%	198
Not safe		13.0%	41
	answer	ed question	315
	skipp	ed question	14

Survey results

20. Please indicate if you use/have completed any of these water efficiency activities. (Select all that apply.)

		Response Percent	Response Count
Use Water Efficient Dish Washing Machine		55.6%	144
Use Water Efficient Clothes Washer		55.2%	143
Use Low Flow Fixtures (Faucets, Toilets, Showers)		74.1%	192
Use Rainwater Collection Barrels		7.7%	20
Have a Xeriscaped Garden (low to no irrigation)		23.6%	61
	answere	ed question	259
	skippe	ed question	70

Survey









Land Use, Waste, Water, and Green Infrastructure

Objectives:

- Vibrant, mixed use, higher density commercial centers
- Zero Waste
- Conserve Water Resources
- Enhance Green Infrastructure









- L 1 Facilitate the transformation of the Castro Valley Central Business District int a higher density, mixed-used, pedestrianand transit-oriented community.
 - GHG REDUCTION POTENTIAL: TBD CO26
 - COST TO COUNTY: HIGH
 - COST TO RESIDENT or BUILDING OWNER NONE
 - SAVINGS TO RESIDENT or BUILDING OWNER: NONE

Imp	lementation Action	Timeframe	Responsibility	
Α	Revise Castro Valley Central Business District Specific Plan	Short Term	County Supervisors;	
	to provide vision for pedestrian-friendly, transit-oriented	(1-2 years)	Planning	
	development.			
В	Conduct audit of existing zoning, development standards,	Short Term	Planning	
	etc for compatibility for transit-oriented development.	(1-2 years)		
С	Create full-time liaison position to facilitate	Short Term	Planning	
	implementation of revised CBD Specific Plan.	(1-2 years)		
D	Develop CBD land assembly program.	Short Term	Planning	
		(1-2 years)		
E	Create CBD infrastructure investment program that	Short Term	Planning;	
	identifies and implements basic infrastructure	(1-2 years)	Public Works	
	improvements needed to attract TOD developers.			
Progress Indicators			Targets	
i	Number of new TOD residential dwelling units.	200 units by 2015;		
		800 units by 2020		
ii	Mix of uses within ½-mile of BART station in 2020.	50% commercial & 50% residential		

Measures









WS – 1 Increase solid waste reduction and diversion to 90% by 2030.

- GHG REDUCTION POTENTIAL: 2,495 MT
 CO₂e
- COST TO COUNTY: MEDIUM
- COST TO RESIDENT or BUILDING OWNER NONE
- SAVINGS TO RESIDENT or BUILDING OWNER: NONE

Im	Implementation Action		Responsibility	
Α	Adopt a resolution to achieve 90% waste reduction	Short Term	County Supervisors;	
	and diversion by 2030.	(1-2 years)	Community	
			Development	
В	Expand outreach programs to maximize participation	Short Term	Community	
	in waste reduction and diversion programs.	(1-2 years)	Development	
Pro	ogress Indicators		Targets	
i	Community waste diversion rate	75% by 2010		
		80% by 2020		
			90% by 2030	

Measures









- G -1 Expand urban forest (e.g. street trees, and trees on private lots) in order to sequester carbor and reduce building energy consumption.
 - GHG REDUCTION POTENTIAL: 285 MT CO₂e
 - COST TO COUNTY: HIGH
 - COST TO RESIDENT or BUILDING OWNER: NONE
 - SAVINGS TO RESIDENT or BUILDING OWNER:
 NONE

lm	plementation Action	Timeframe	Responsibility	
Α	Develop an Urban Forest Management Plan.	Short Term	Public Works;	
		(1-2 years)	Planning	
В	Develop outreach program to educate residents and	Short Term	Public Works;	
	businesses about urban forest benefits and	(1-2 years)	Planning	
	encourage the planting of additional trees on private			
	property.			
Pro	ogress Indicators	Targets		
i	Number of trees planted per year on public land and right-	-	L,000 trees	
	of-ways in urban areas.			
ii	Total number of trees planted 2010-2020 on public land	10,000 trees		
	and right-of-ways in urban areas.			
iii	Total number of trees planted 2010-2020 on private	1,000 trees		
	property.			

Measures

More Information:

- County Climate Action Website:
 http://www.acgov.org/cda/planning/climate_action_plan.htm
- Join our Mailing List: alamedacountyclimateaction@yahoo.com
- Contact us at:

Howard Lee Alameda County Planning Department 224 West Winton Avenue Room 111 Hayward, CA 94544

Tel: (510)670-5400 Fax: (510)785-8793

Questions and Discussion

