Welcome/Introductory Remarks

Love Our Green Island

Town Hall Meeting

Source: Bay Area News Group

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Agenda

- Welcome
- Introductory Remarks
- Overview of Plan (2008)
- Plan Progress (2015)
- **Plan Update (2017)**
- Break-out Groups
- Next Steps

Source: The Synergy Centre

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Meeting Purpose

- ✓ Inform community members
- ✓ Brainstorm on how to move forward with the Climate Plan Update

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Overview – Climate Plan (2008)

LOCAL ACTION PLAN FOR
CLIMATE PROTECTION

GOAL: Reduce GHG emissions to 25% below 2005 baseline by 2020

Initiatives for:

- ✓ Transportation and Land Use
- ✓ Energy
- ✓ Water and Recycling
- ✓ Outreach and Education

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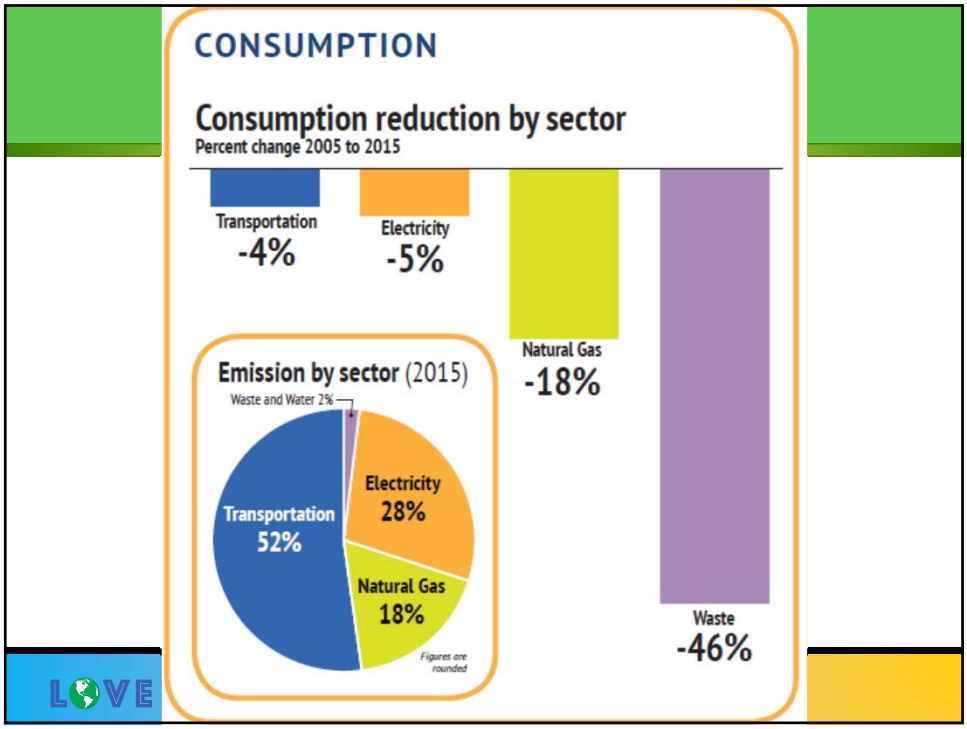
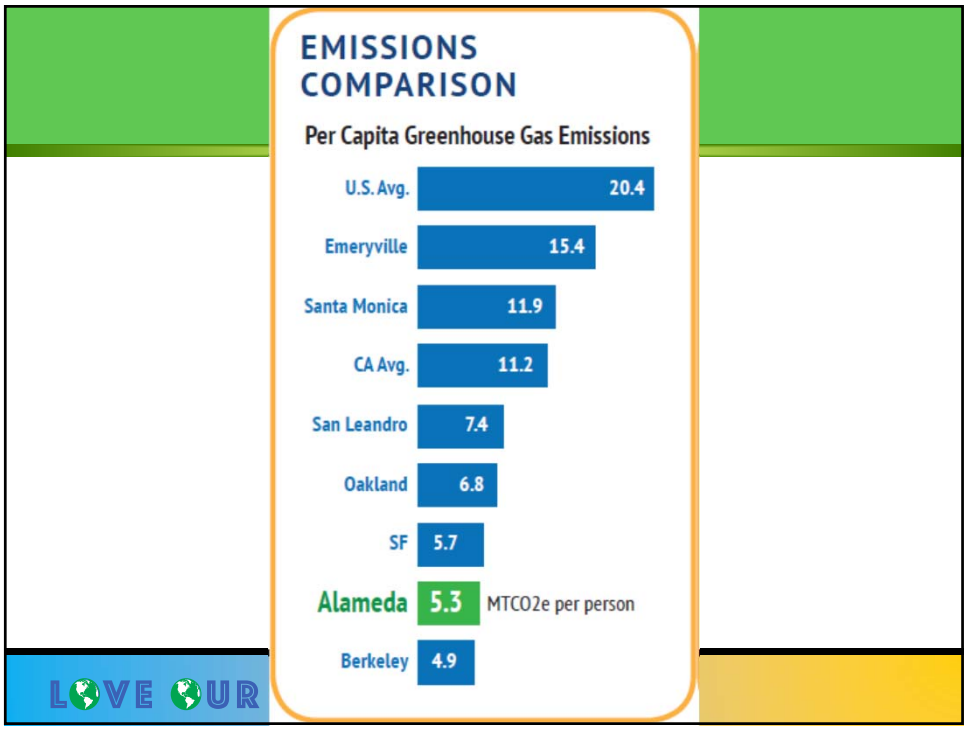

CONSUMPTION
Consumption reduction by sector
Percent change 2005 to 2015
Transportation
-4%
Electricity
-5%
Natural Gas
-18%
Waste
-46%
Emission by sector (2015)
Waste and Water 2%
Transportation
52%
Electricity
28%
Natural Gas
18%
Figures are rounded
LOVE


EMISSIONS COMPARISON
Per Capita Greenhouse Gas Emissions
U.S. Avg. 20.4
Emeryville 15.4
Santa Monica 11.9
CA Avg. 11.2
San Leandro 7.4
Oakland 6.8
SF 5.7
Alameda 5.3 MTCO2e per person
Berkeley 4.9
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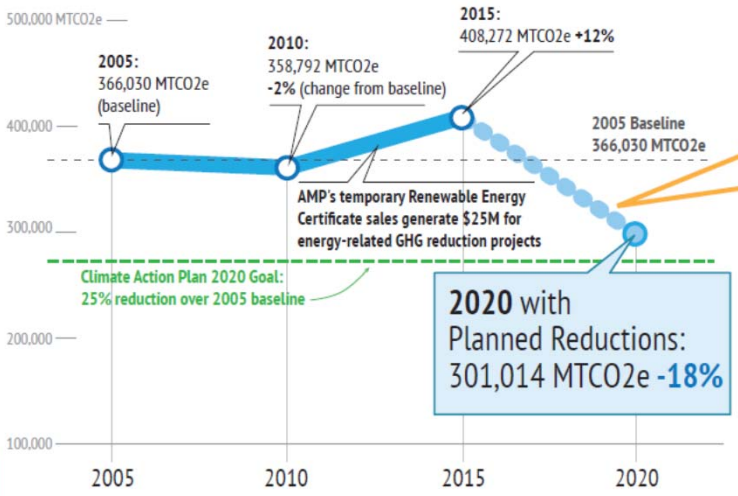
THE BIG PICTURE: EMISSIONS THROUGH 2020

Reduction in Greenhouse Gases

Reduction in Metric Tons of Carbon Dioxide Equivalent



100% CARBON NEUTRAL POWER IN 2020

Alameda's electricity will be 100% carbon neutral in 2020, as it will come from geothermal, hydroelectric, landfills, wind, and other renewables.

Spring/Summer 2017 Actions

- City Council Direction
  - Update Alameda's 2008 Climate Plan
  - Create a "Straws on Request" and compostable or recyclable "To Go" food ware ordinance
- Town Hall Meeting
  - Focused on accomplishments
  - 40 attendees
- Convened Green Team
- Emissions Inventory Update
- Resilient by Design Challenge Submittal
- Hired Climate Action Fellow

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Plan Update Inputs

Source	Input	Date
Transportation	Transportation Choices Plan	Fall 2017
Natural Gas	Pacific Gas & Electric (PG&E)	Update: 2019
Electricity	Alameda Municipal Power (AMP)	Update: 2019
Waste	Zero Waste Plan	Dec 2017
Stormwater	Green Infrastructure Plan	Spring 2018
Land Use	Community Development Dept.	Update: 2019

Climate Action Plan Update (2019)

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Transportation

Source: East Bay Times

- Draft Transportation Choices Plan
  - 18 month process – began in 2015
  - 38 Projects and Programs
  - City Council: Fall 2017
  - ***Vision***:
    - Sustain a high quality of life in Alameda by improving mobility over the next 15 years

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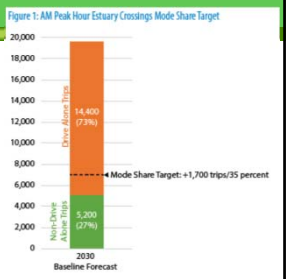
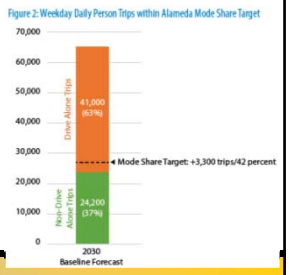
Transportation

Goals:

1. **Estuary crossings:** Decrease drive alone trips at estuary crossings, especially in the peak period.
   - = 1,700 fewer drive alone trips in AM peak hour
   - = 12% decrease in drive alone trips
   - (High Estimate: 2,500 fewer drive alone; 17%)
2. **Within Alameda:** Increase the share of walking, bicycling, bus and carpool trips within Alameda.
   - = 3,300 more non-drive alone trips on weekdays
   - = 14% increase in non-drive alone trips





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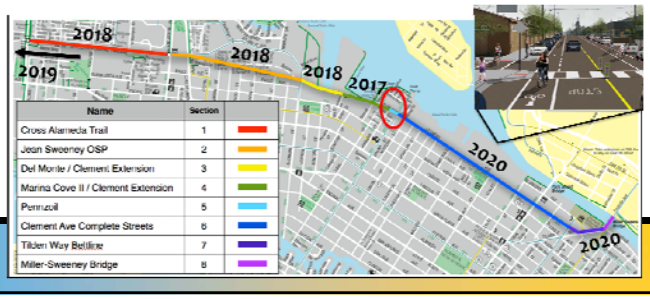
Transportation

- Draft Transportation Choices Plan (cont.)
  - Estimated 2.7% to 6.6% annual CO2 emissions reduction
  - Funded projects = $61 million
  - Climate Plan Update
    - Electric vehicles
    - New technologies – green economy
    - Other?

AC TRANSIT EasyPass



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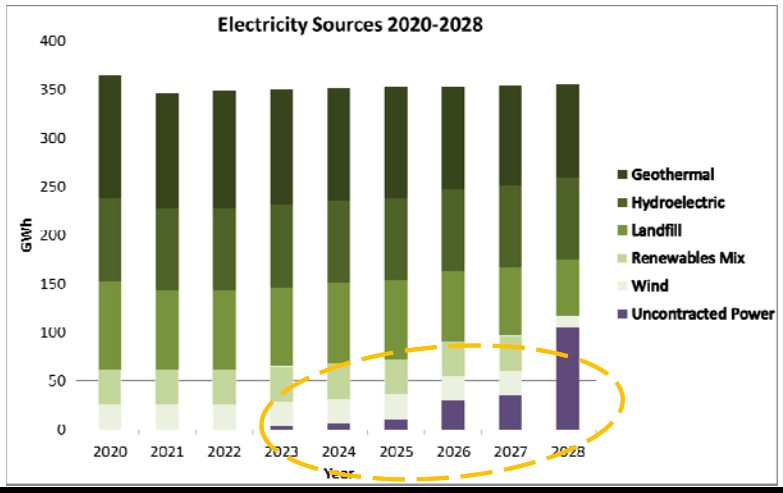
AMP Meets 2020 Carbon Neutral Goal



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Energy Efficiency and Electric Vehicles

- AMP will continue to use REC funds to offer energy efficiency incentives
- Evaluating a Community Solar Program
- Proposing an EV charger rebate program
  - Funded by Low Carbon Fuel Standard

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Waste

- Zero Waste Implementation Plan Update on Dec 5 to City Council

  Short term
  - Outreach and education: Reusables vs. Disposables
  - Update the construction and demolition debris ordinance
  - Mandatory residential recycling and composting?

  Medium term
  - Support landfill bans on specific materials?
  - Food rescue program?
  - Mixed waste processing?
  - Regulate more single-use products?
- Input: see Kerry Parker and consultant team
- Follow up survey

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Land Use & Green Buildings

- Land Use Questions
  - Density
    - City Charter and "Measure A"
    - Public Attitudes
    - State Actions to Address Housing Crisis
      - Accessory Dwelling Units
  - Development Guidelines
    - Incentives vs. Requirements
    - Public Outreach Programs

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Land Use & Green Buildings

- Green Buildings & Development
  - California Green Building Code
    - Requirements for New Development
      - New Residential Units Be Net-Zero Energy
      - Non-Residential Development Net-Zero Energy in 2020
    - Does the City Want Stricter Requirements than State?
      - Mandatory EV Charging Stations
      - Retrofitting of older homes
  - WELO & Bay Friendly
    - New and Refurbished Landscaping
      - Water Efficient & Drought Tolerant
      - Non Invasive Local Species
      - Reduction in Waste to Landfill

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PG&E Actions to Reduce GHG Emissions

PG&E is taking a number of steps to reduce the GHG emissions associated with our natural gas system, while maintaining safety and reliability

- **Leak detection and repair**
  - We've pioneered new technologies to detect and reduce leaks
  - We use the Picarro Surveyor™, which is 1,000 times more sensitive than any other leak detection device
- **PG&E as a climate solutions provider**
  - We offer a wide array of energy efficiency options for customers
- **Decarbonizing the natural gas system**
  - We support the development of a robust renewable natural gas market in California and beyond, and are actively exploring and advancing opportunities in this area
  - It is critical that we have the right policies and regulatory framework in place to develop this market

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PG&E's Climate Resilience Initiatives

Building more resilient operations

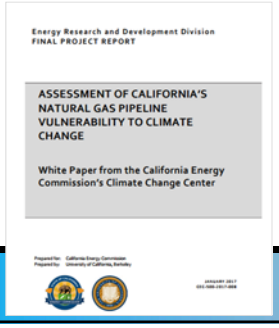
- Vulnerability assessments and visualization maps to explore climate risk
- Risk Assessment Mitigation Phase (RAMP) filing with CPUC
- Climate Resilience Screening Tool in development to assess risks for large infrastructure projects

Supporting our communities

- Better Together Resilient Communities Grant Program: $1 million over five years in grants to support local initiatives to build greater climate resilience

ART Partners

ABAG
Alameda County
Public Works
Community Development
Public Health Department
Transportation Commission
BART
Bay Institute
Bay Trail
CA Coastal Conservancy
Capitol Corridor JPA
City of Alameda
City of Emeryville
City of Hayward
City of Oakland
City of San Leandro
City of Union City
East Bay Dischargers Authority
East Bay Municipal Utility District
East Bay Regional Park District
H.A.R.D.
Pacific Institute
PG&E
Port of Oakland
San Francisco Estuary Institute
San Francisco Estuary Partnership


Energy Research and Development Division
FINAL PROJECT REPORT

ASSESSMENT OF CALIFORNIA'S NATURAL GAS PIPELINE VULNERABILITY TO CLIMATE CHANGE

White Paper from the California Energy Commission's Climate Change Center

- **Guide PG&E action** to reduce climate risk for the company, our employees, and our customers
- Improve understanding of **potential risk to assets** (e.g., from sea level rise and storm surge)
- Aid in **communicating risk & resilience strategies** across the company and with local stakeholders
- Inform **system-wide management** of climate change resilience planning
- Explore **interactions across climate hazards**, such as a prolonged heat wave in conjunction with extended drought

Potential Other Plan Components

- Community Actions (CASA)
  - Formed in 2008 to help implement the City's Action Plan for Climate Protection
  - Building a constituency
  - Engaging the community
  - Supporting community buy-in and change

CASA
Community Action for a Sustainable Alameda

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Potential Other Components (cont.)

- Sustainability
  - "Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."
    - Brundtland Commission, October 1987
- Regeneration
  - Describes processes that restore, renew or revitalize their own sources of energy and materials, creating sustainable systems that integrate the needs of society with the integrity of nature.

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Potential Other Components (cont.)

- Adaptation
  - Sea level rise
  - Flooding and Green Infrastructure

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Input for Plan Update

2017 Date	Task
September/ October	Publicize survey (https://www.peakdemocracy.com/5414)
October	Complete 2015 Inventory Report Town Hall (Oct 5), Planning Board (Oct 23)
November	Public Utilities Board (Nov 13), Transportation Commission (Nov 15) Transportation Choices Plan to City Council (Nov 7)
December 5	Request City Council to approve draft work scope and budget of Climate Plan Update Discuss Zero Waste Plan update

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Draft 2018/2019 Work Plan

Date	Task
Early 2018	Hire consultant experts after issuing a Request for Proposals (pending City Council approval)
Mid 2018	Conduct workshop/survey and draft initiatives
Early 2019	Complete Draft Plan Update and outreach
Mid 2019	Request City Council approval of Plan

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Q & A

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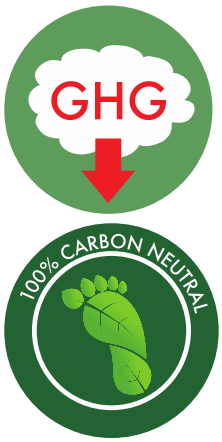

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Break-out Groups

- Adaptation (Liam)
- Electricity (Kelly/James)
- Land Use & Green Building (David)
- Natural Gas (PG & E)
- Regeneration & Sustainability (CASA)
- Transportation (Gail)
- Zero Waste (Kerry)

"When one tugs at a single thing in nature, he finds it attached to the rest of the world"
~ John Muir

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Next Steps – Plan Update

- Take web survey: https://www.peakdemocracy.com/5414
- Take November web survey on Zero Waste
- Commissions/Boards/City Council on work scope update
  - Planning Board: Oct 23
  - Public Utilities Board: Nov 13
  - Transportation Commission: Nov 15
  - City Council: Dec 5

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