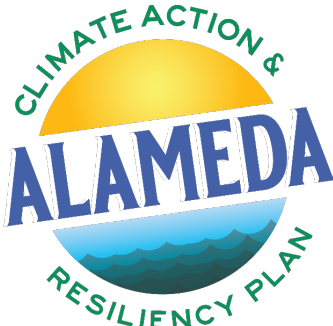


# Climate Action and Resiliency Plan Update

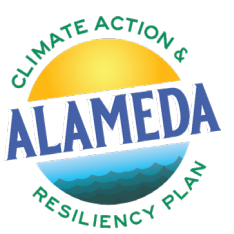
October 15, 2024





# Tonight's Agenda

- Brief project overview
- Community engagement activities to date
- 2022 greenhouse gas inventory
- Revised CARP vision, goals, and strategies
- Priority implementation plans



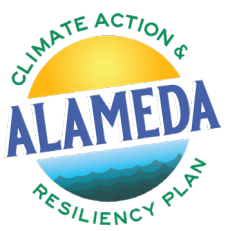
Community workshop 6/28/24



Stakeholder meeting 8/27/24



# Why Update Now?



Mid-cycle



**Holistically evaluate and celebrate** our successes and barriers to progress



**Align with recent and ongoing** local initiatives and plans by City and regional agencies

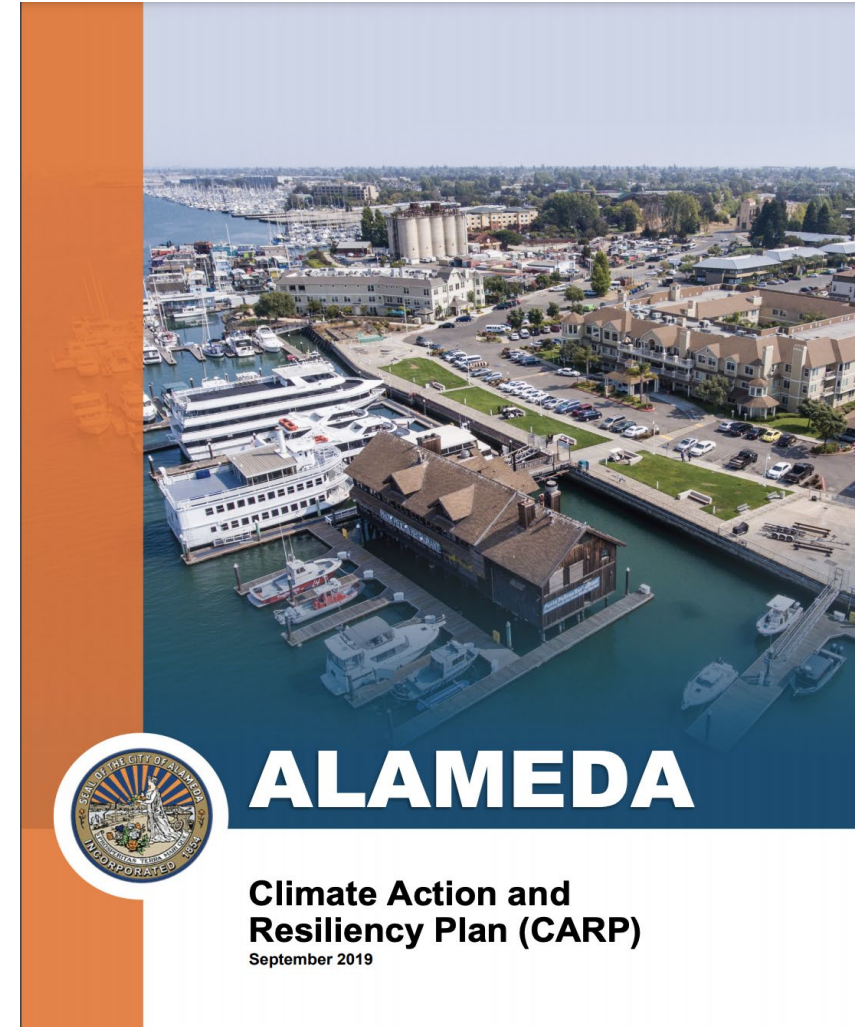


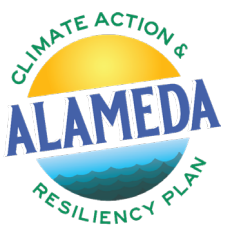
New **State laws and initiatives**, including 2022 Scoping Plan update

[www.alamedaca.gov/CARP](http://www.alamedaca.gov/CARP)

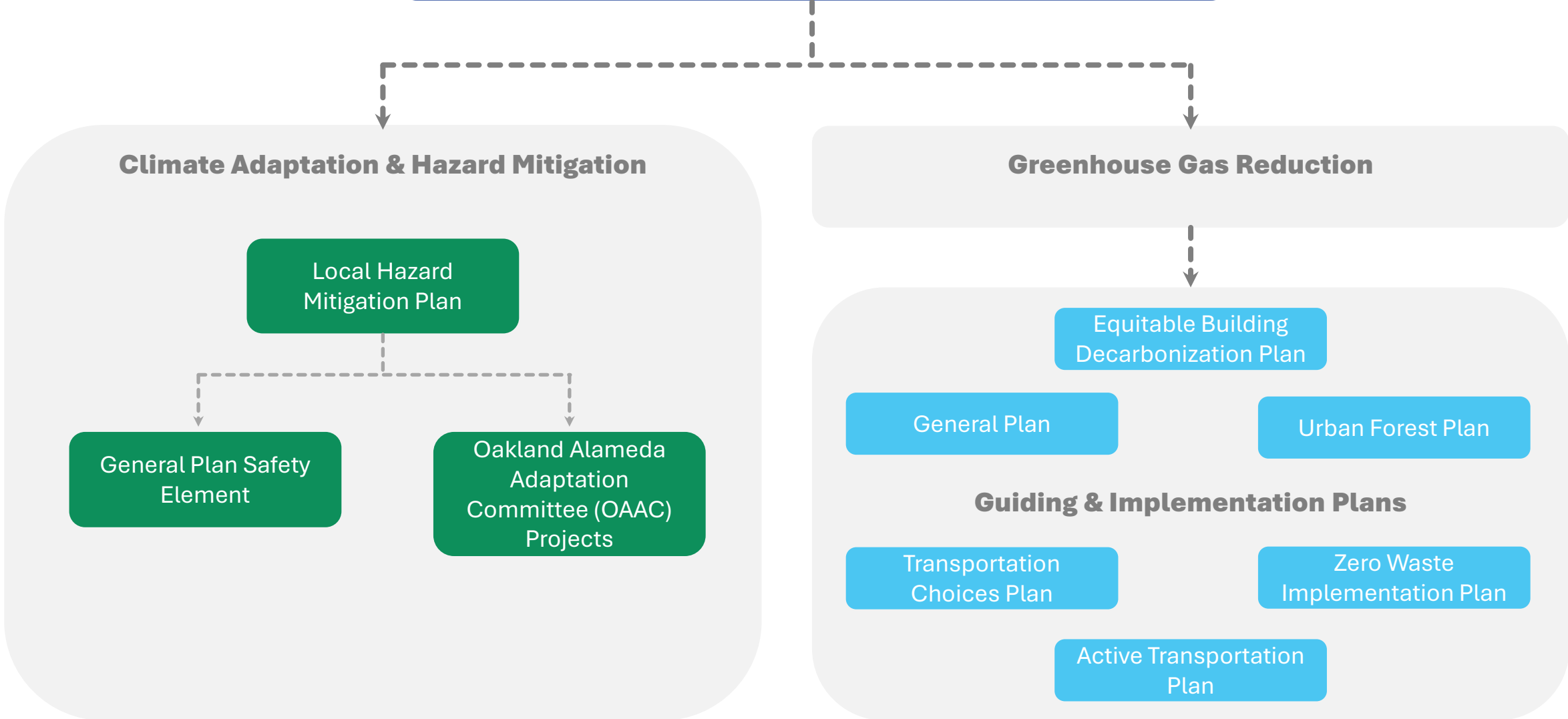
[www.alamedaca.gov/HazardMitigationPlan](http://www.alamedaca.gov/HazardMitigationPlan)

CARP update + inventory: Strategic Plan Project CC1



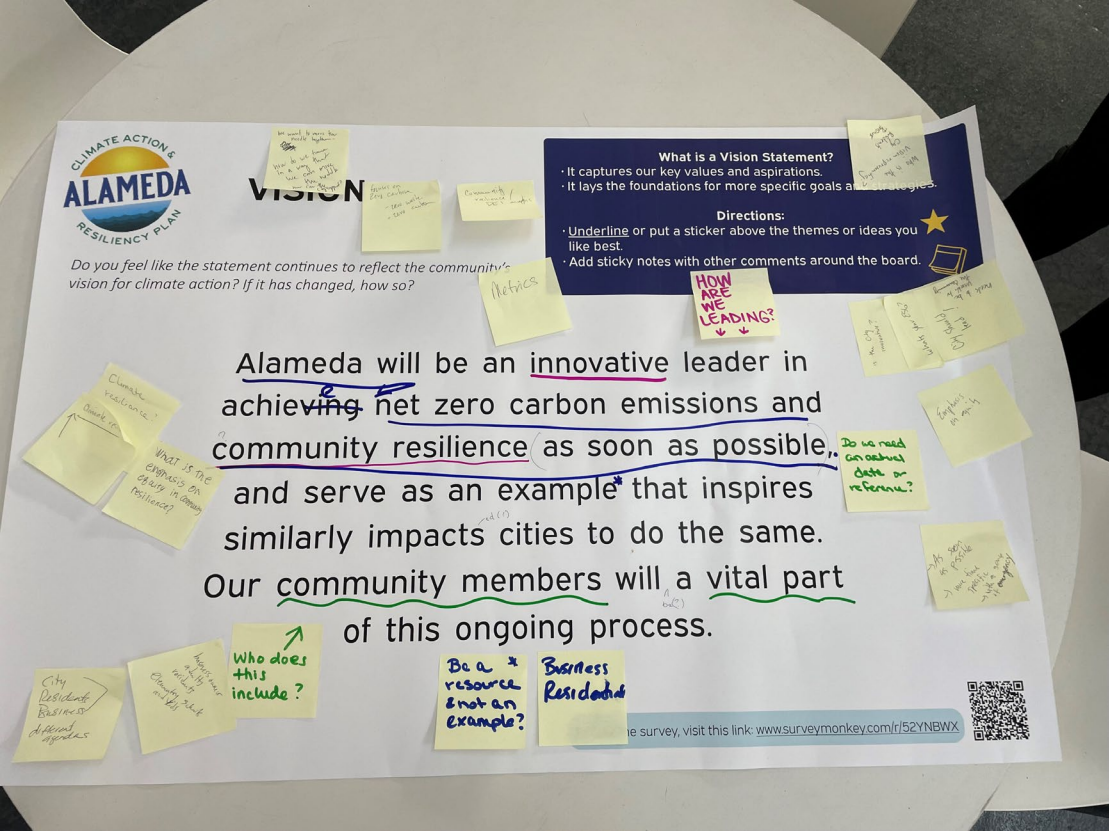


# Climate Action and Resiliency Plan (CARP)





# Community Engagement Activities To Date



↑ Stakeholder meeting 4/18/24

City Green Team Meetings (5 meetings)

Key departments/organizations interviews

Community Survey (April 15 – June 18) - 144 responses

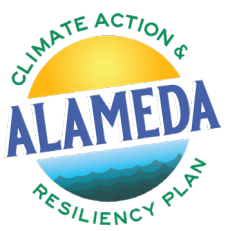
Stakeholder Meetings (8 meetings) April & August ~50 participants each round

Community Popups (Spring Shindig, Bike Fest)

Community Workshop #1 (June 25) – 44 participants

Sustainability Newsletter ~1,400 recipients

# Oakland Alameda Adaptation Engagement



↑ Stakeholder meeting 8/15/24

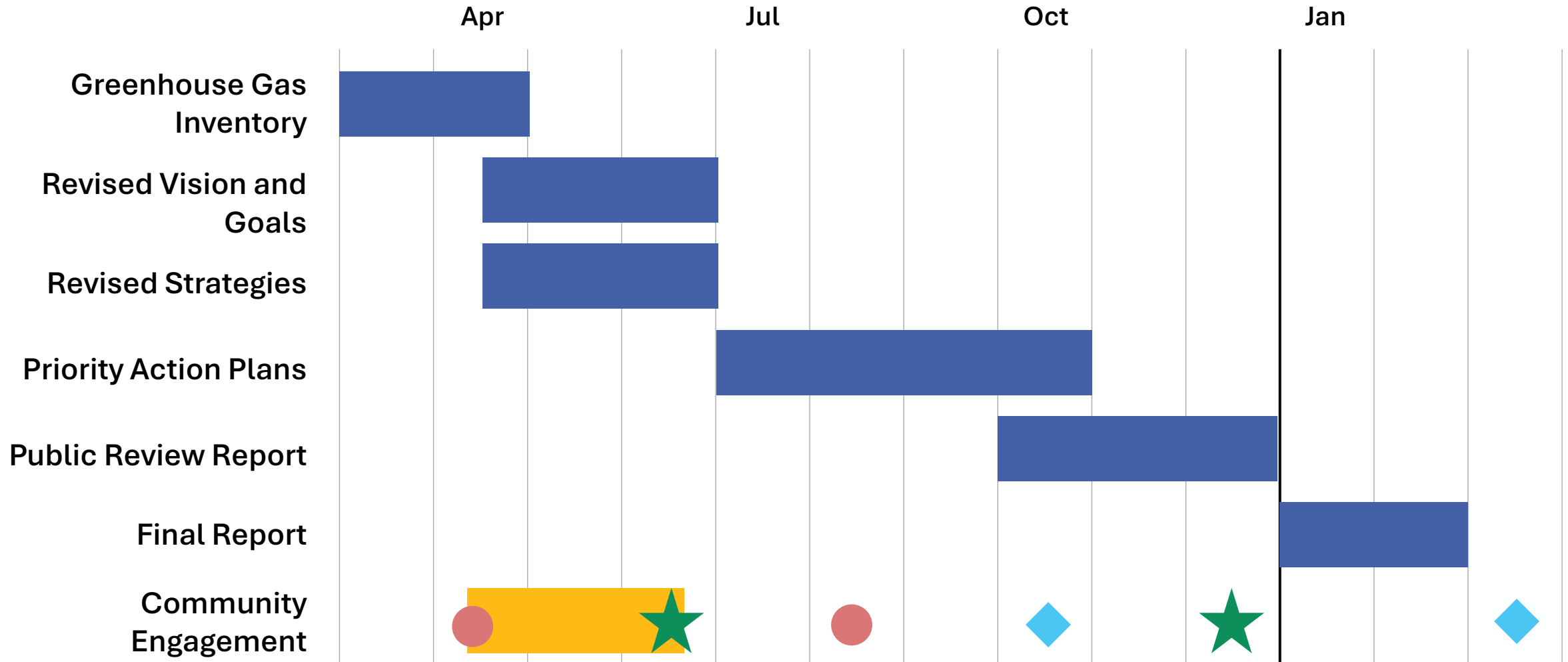
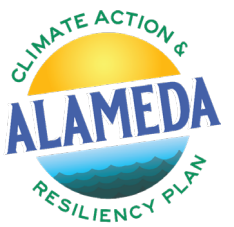
OAAC Adaptation Plan Workshop (April 2024)

Rhythmix Rising Seas (August 2024)

OAAC Sea Level Rise Projects Workshops (August 2024)

Somewhere to Land: Dances for Sea and Low Sky (September 2024)

# Project Timeline



● Stakeholder Meetings    ★ Workshops    ◆ City Council meetings    ■ Survey

# How to Stay Involved

- Project information will be regularly updated on: [www.alamedaca.gov/CARP](http://www.alamedaca.gov/CARP)
- To stay up to date on plan progress, please subscribe to the "Environment, Sustainability and Climate Action" mailing list: [www.alamedaca.gov/subscribe](http://www.alamedaca.gov/subscribe)



## Sustainability and Resilience News

- [Climate Action, Resilience and Zero Waste Workshop June 25 at Alameda Free Library](#)
- [Alameda is Recruiting a CivicSpark Fellow - Apply Today!](#)
- ["Save the Planet in Your Spare Time" book launch event August 3 at Books Inc.](#)

### Climate Action, Resilience and Zero Waste Workshop June 25 at Alameda Free Library

The City of Alameda invites you to a public workshop and open house to give your input on the Climate Action and Resilience Plan (CARP), Local Hazard Mitigation Plan (LHMP), and Zero Waste Implementation Plan (ZWIP) updates. Join to discuss your vision and goals for sustainability in Alameda! [Learn more and register here.](#)

**CLIMATE ACTION,  
RESILIENCE AND ZERO  
WASTE WORKSHOP**



# Greenhouse Gas Inventory Update

# Greenhouse Gas Emissions by Sector for 2022

**267,894**

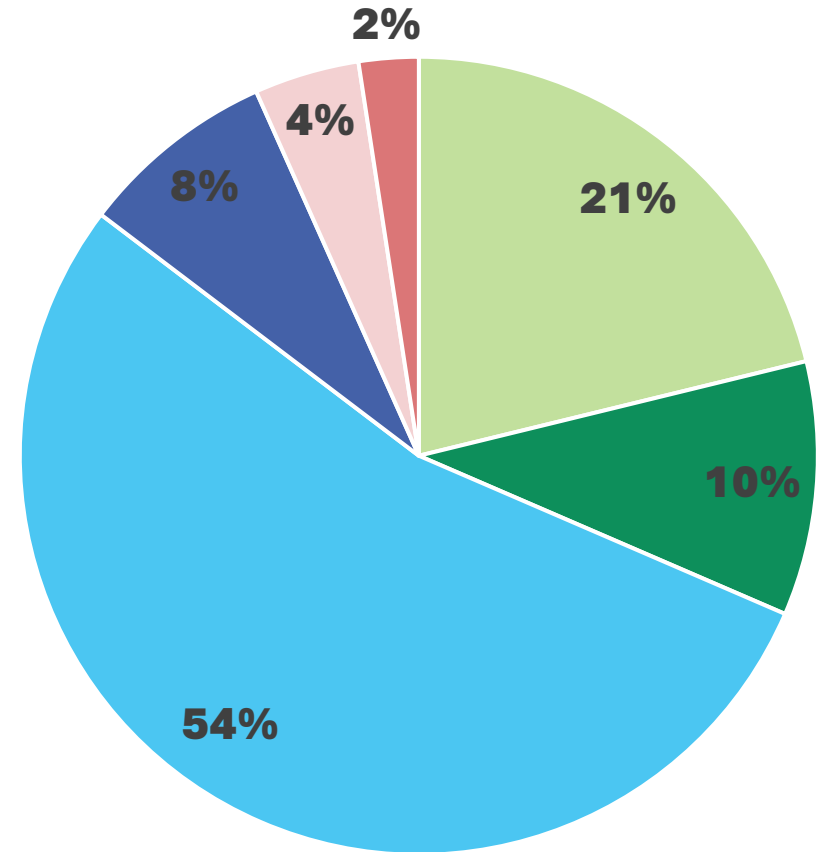
Total MTCO<sub>2</sub>e in 2022

**3.5**

MTCO<sub>2</sub>e per Capita

**2.4**

MTCO<sub>2</sub>e per Service Population



Residential energy (natural gas only)



On-road transportation



Solid waste



Sequestration credit = 1% (3,207 MTCO<sub>2</sub>e)



Nonresidential energy (natural gas only)

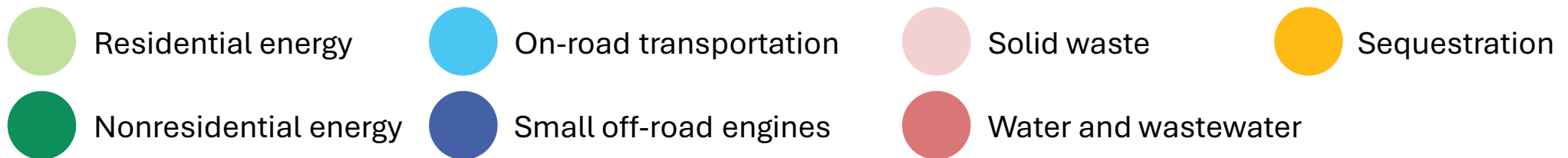
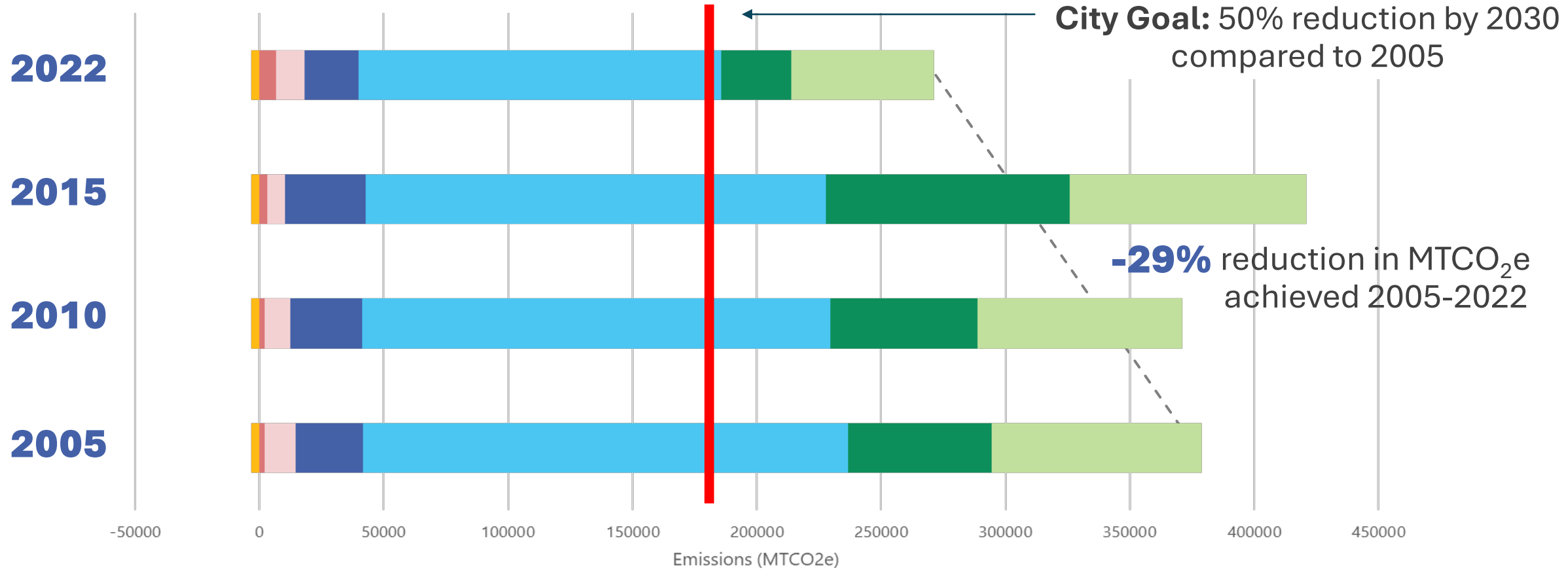
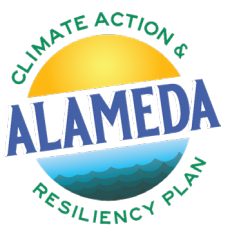


Small off-road engines



Water and wastewater

# Greenhouse Gas Emissions Over Time





# Key Findings 2005-2022



**Total Emissions: -29%**

Main driver: AMP providing 100% clean energy



**Per capita: -31%**  
**Per service population: -40%**

Main driver: AMP providing 100% clean energy



**Electricity Emissions: -100%**

Main driver: AMP providing 100% clean energy



**Natural Gas Emissions: -6%**

Main driver: reduced residential NG usage



**Transportation Emissions: -25%**

Main driver: cleaner vehicles, more EVs on the road, reduced VMT, more efficient off-road equipment

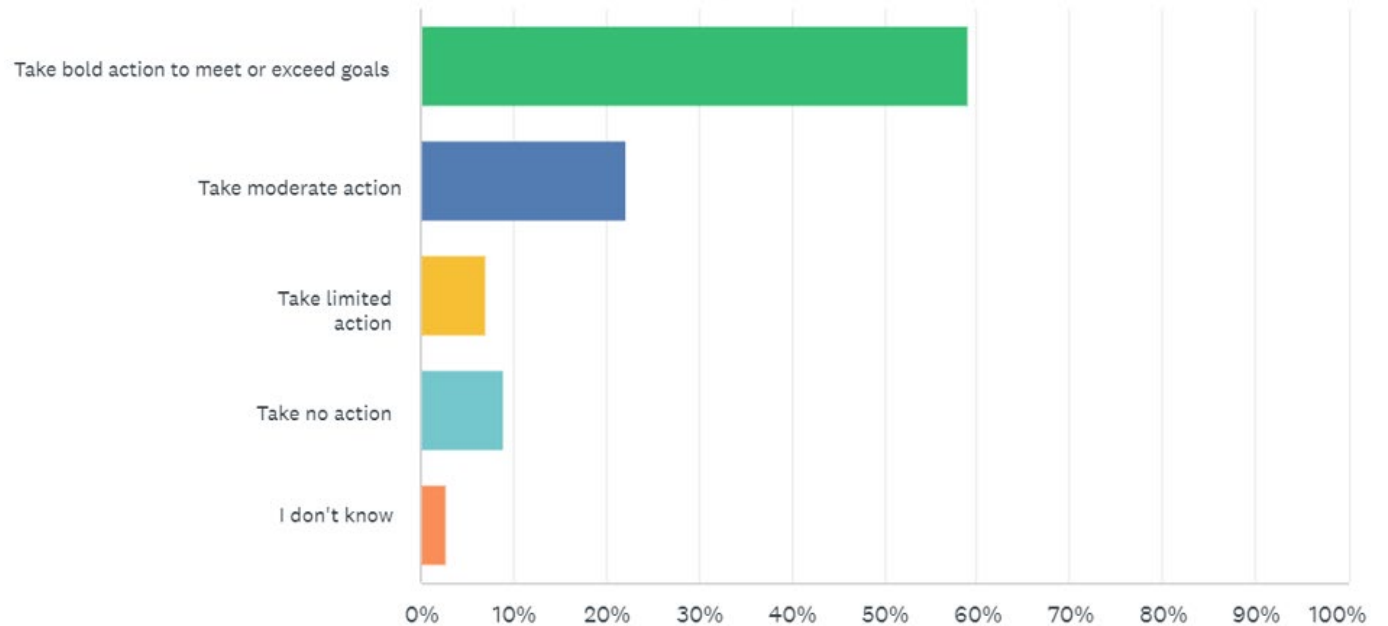


**Vehicle Miles Traveled: -6%**

Main driver: Pandemic driving patterns, city mode shift efforts

# Greenhouse Gas Reduction Targets

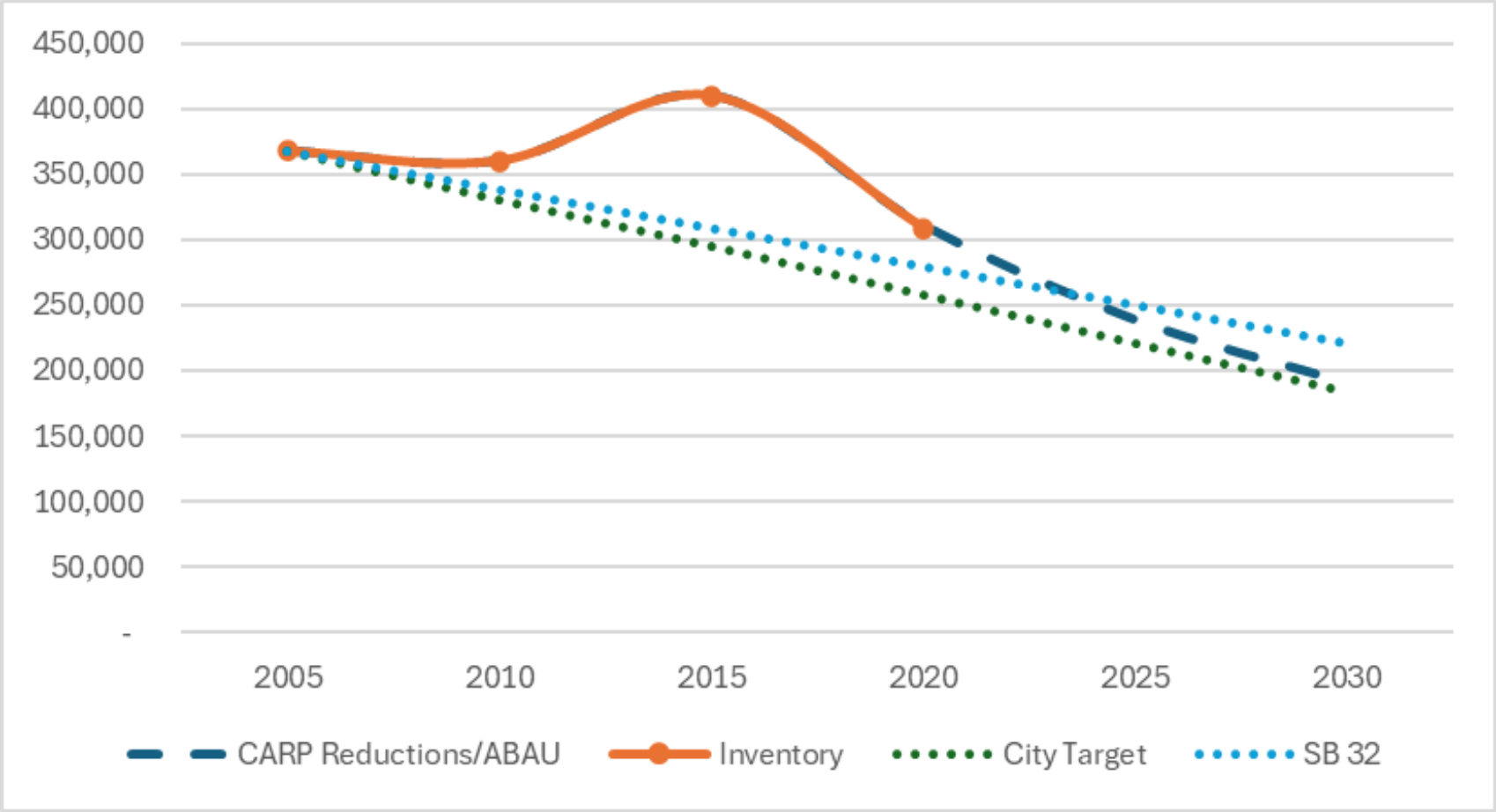
- We set targets in line with State and the scientific community to:
  - Reduce emissions 50% below 2005 levels by 2030 (unchanged from 2019)
  - Become carbon neutral by 2045 (aligns with state goal)



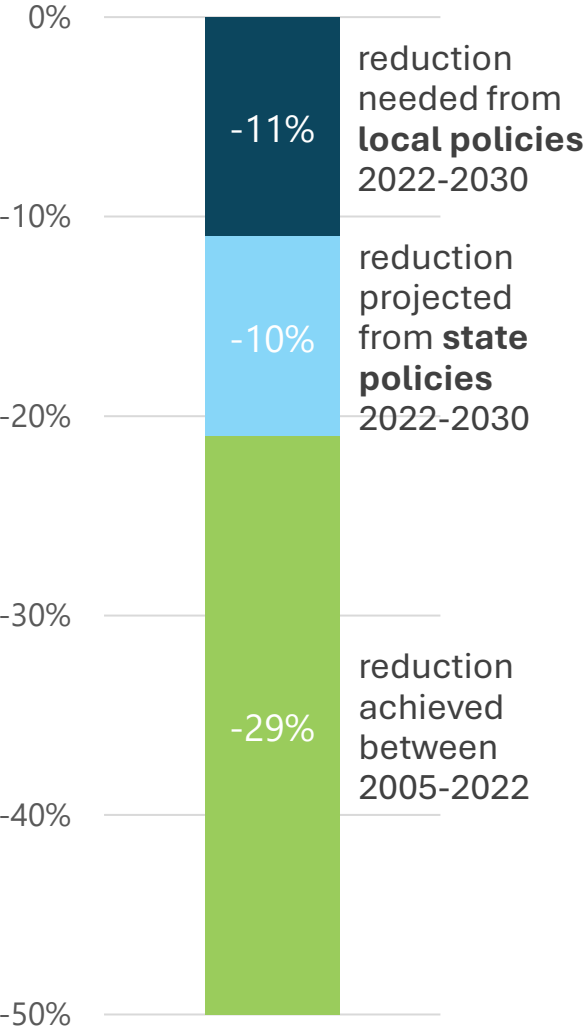
**How actively should the City work to achieve its greenhouse gas reduction goals?**

# Progress Toward GHG Reduction Goals

(MTCO<sub>2</sub>e)



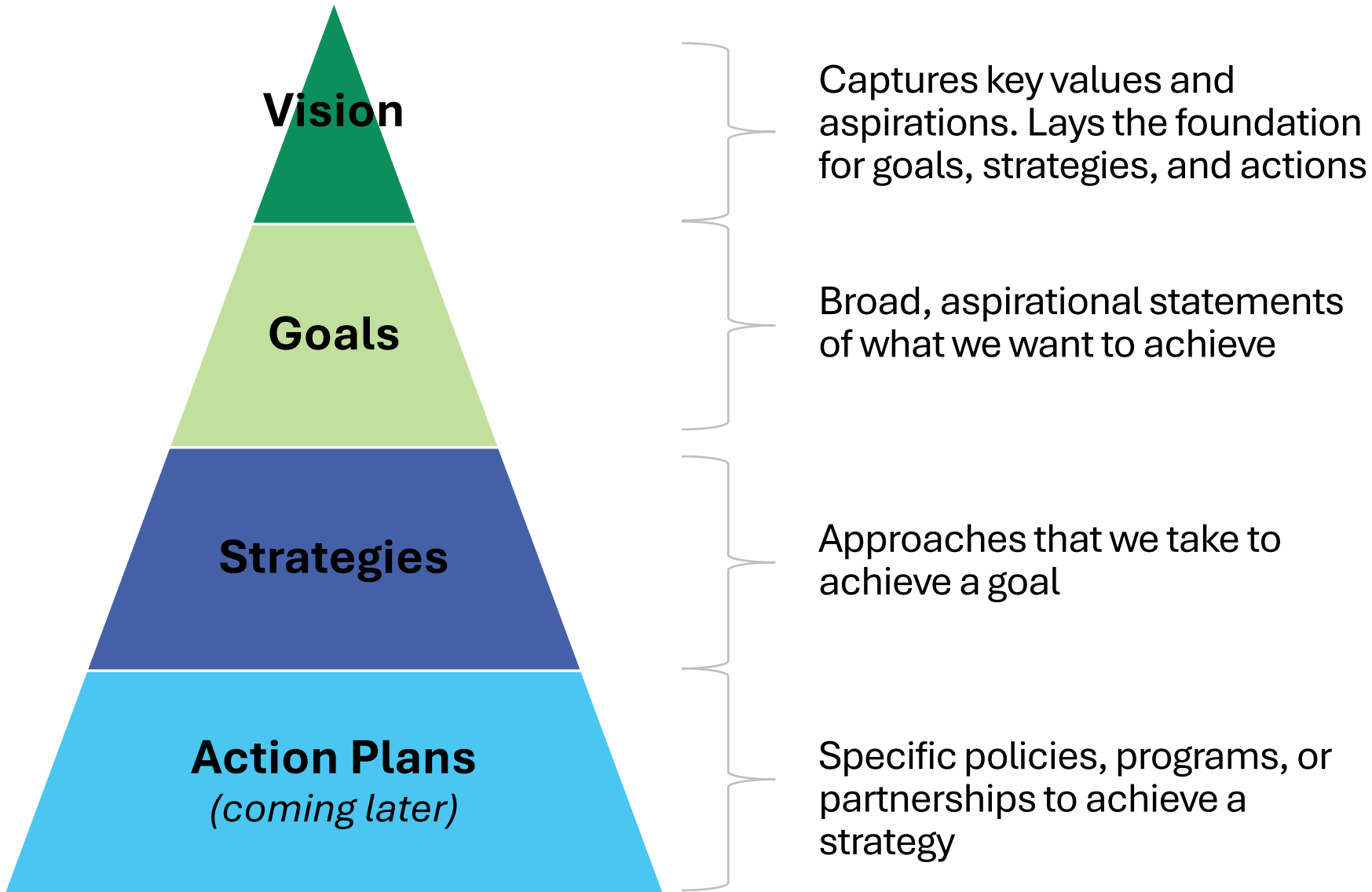
**City Goal: -50%** MTCO<sub>2</sub>e reduction by 2030 compared to 2005





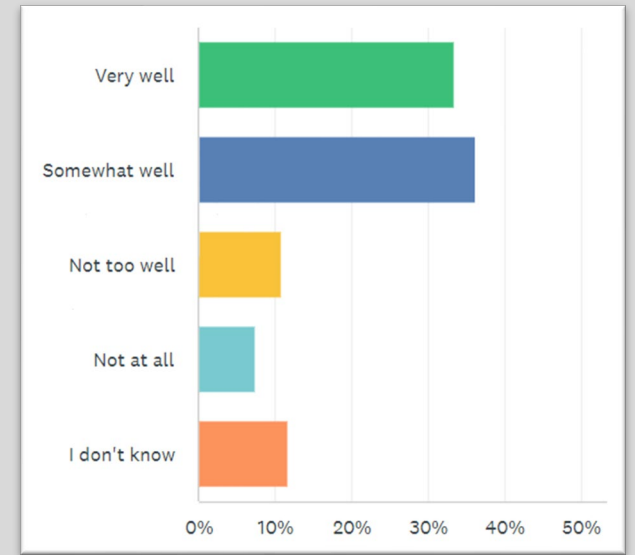
# **Vision, Goals and Strategies**

# CARP Structure and Definitions



# Existing Vision

Alameda will be an innovative leader in achieving net zero carbon emissions and community resilience as soon as possible, and serve as an example that inspires similarly impacted cities to do the same. Our community members will be a vital part of this ongoing process.



**How well do you feel the vision statement continues to reflect the community's vision of climate action?**

# Draft Revised Vision

Alameda aims to be carbon neutral and to build community resilience in ways that enhance our quality of life and reduce environmental burden on vulnerable communities. The whole community is a vital part of this effort.



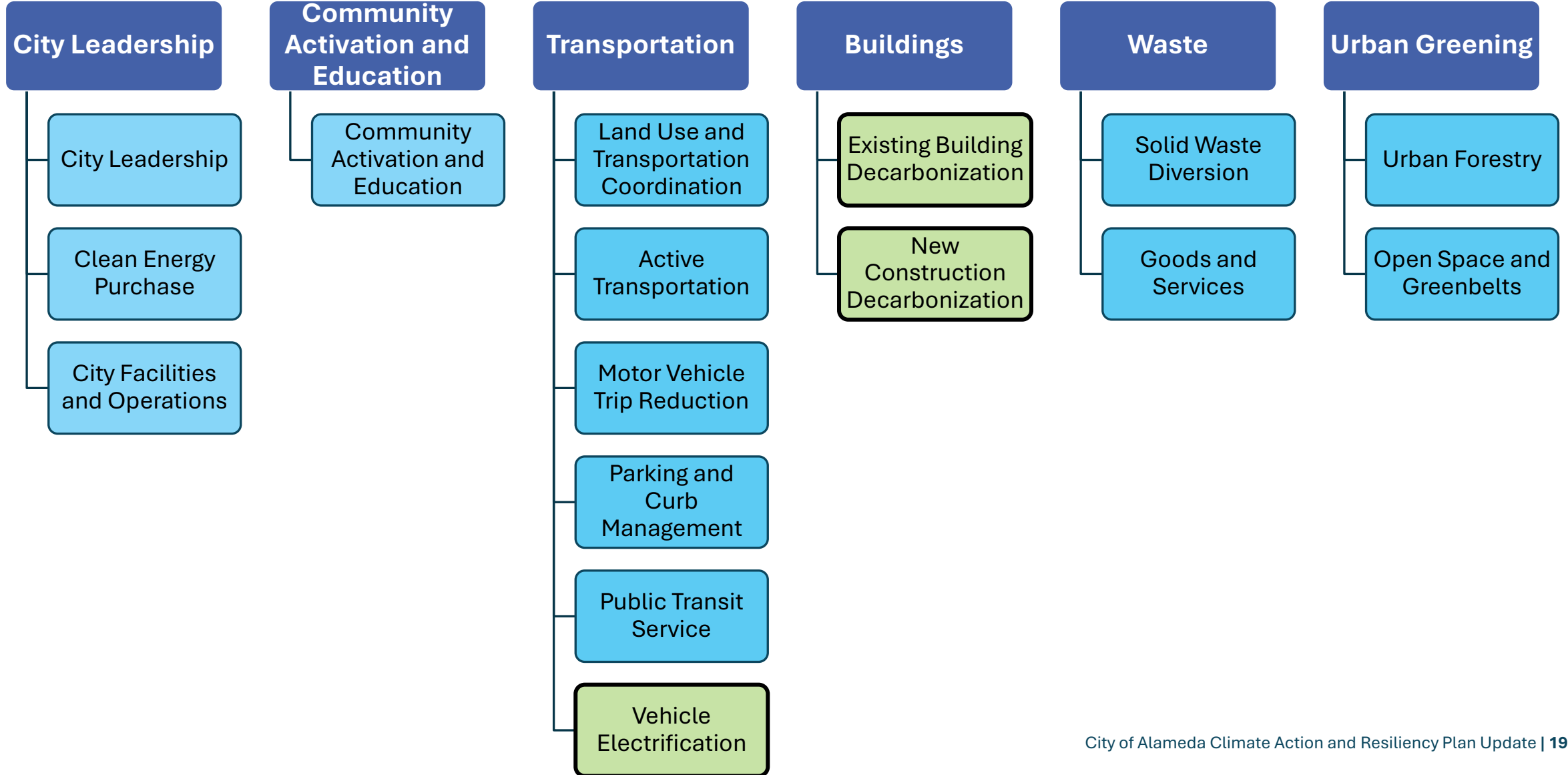
# Existing Goals

1. GHG Reduction
2. Sea Level Rise and Storm Surges
3. Inland Flooding
4. Drought
5. Extreme Heat
6. Wildfires
7. Earthquakes and Liquefaction
8. Effective Implementation and Capacity Building

# Draft Revised Goals

1. Carbon Neutral
2. Community Resilience (to the impacts of sea level rise and storm surges, inland flooding, drought, extreme heat, wildfire smoke, earthquakes/liquefaction)
1. Community Education and Activation
2. City Leadership

# Greenhouse Gas Reduction Strategies



# Priority Implementation Plans



# Vehicle Electrification – Public EV Charging

Expand publicly available EV charging infrastructure in public parking lots and in the public right of way.

## Phase 1 (no cost to City):

- Agreement with **It’s Electric** to deploy **10** curbside chargers in multi-family and mixed-use neighborhoods and adjacent to Housing Authority and AUSD properties.
- Agreement with **Blink Charging** to deploy chargers in public parking lots:

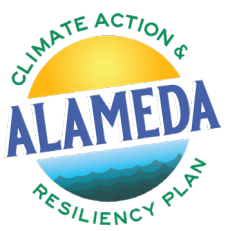
| Location                    | Address              | L2/<br>DCDC | Charging<br>Ports |
|-----------------------------|----------------------|-------------|-------------------|
| HBI Park and Ride           | 300 Island Dr        | L2          | 4                 |
| Bohol Circle Immigrant Park | 2901 5th Street      | L2          | 4                 |
| Civic Center Garage         | 1416 Oak St          | L2          | 4                 |
| Central Ave Lot C           | 2312 Central Ave     | DCFC        | 2                 |
| Mastick Senior Center       | 1155 Santa Clara Ave | L2          | 4                 |
| <b>Total ports</b>          |                      |             | <b>18</b>         |

## Phase 2 (requires additional funding):

- Seek federal funding to deploy:
  - up to **40** additional curbside chargers
  - Additional chargers in public parking lots:

| Location              | Address           | L2/<br>DCDC | Charging<br>Ports |
|-----------------------|-------------------|-------------|-------------------|
| Estuary Park Phase II | 201 Mosley Ave    | L2          | 4                 |
| City Hall West        | 950 W Mall Square | L2          | 4                 |
| HBI Park and Ride     | 300 Island Dr     | L2          | 8                 |
| HBI Park and Ride     | 300 Island Dr     | DCFC        | 2                 |
| BFI Library           | 3221 Mecartney Rd | DCFC        | 4                 |
| Washington Park       | 1333 Eighth St    | DCFC        | 4                 |
| West End Lot W        | 716 Haight Ave    | DCFC        | 4                 |
| Jean Sweeney Park     | 1925 Sherman St   | DCFC        | 4                 |
| <b>Total ports</b>    |                   |             | <b>34</b>         |

# Regional and State Context for Electrification



2026

2027

2029

2030

2045

**2025 California Energy Code takes effect January 1, 2026**

Heat pumps for space and water heating, and when replacing rooftop HVAC. Electric ready and solar+storage rqmts.



**BAAQMD low NOx water heater requirements**

Residential gas tank water heaters no longer sold in Bay Area.



**BAAQMD low NOx space heater requirements**

Residential and commercial gas space heaters no longer sold in Bay Area.



**CARB Zero-Emission Appliance Standards**

Residential and commercial gas water and space heaters no longer sold statewide.



**California achieves carbon neutrality**

Transition away from fossil gas end use by 2045.



# Local Building Code Amendment Options: New Construction

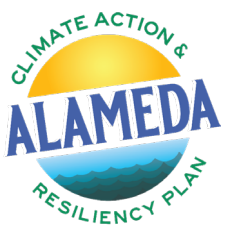
| Policy                             | Description  | Who's Done it?  |
|------------------------------------|--|---|
| <b>Energy performance approach</b> | <ul style="list-style-type: none"> <li>Require buildings to meet higher than state minimum energy performance goals, which can be met through both natural gas and electric appliances.</li> <li>Buildings that install gas appliances should prepare for future electric appliances.</li> </ul> | Santa Monica, Cupertino, Palo Alto, East Palo Alto, San Jose, Brisbane, Santa Cruz, and others. |
| <b>Air quality approach</b>        | <ul style="list-style-type: none"> <li>Require that buildings meet a zero emission standards in alignment with Bay Area Air District air quality regulations.</li> <li>This standard cannot be met with gas appliances.</li> </ul>   | Los Altos Hills, Campbell   |

# Local Building Code Amendment Options: Existing Buildings

| Policy  | Description  | Who's Done it?   |
|---|--|--|
| <b>Additions or major renovations</b>         | <ul style="list-style-type: none"> <li>Projects must include a set of energy efficiency and/or electrification measures that achieve an energy-saving target from a weighted menu of measures.</li> <li>Buildings that install gas appliances should prepare for future electric appliances.</li> </ul>  | Piedmont, Marin County, San Luis Obispo                            |
| <b>Minor renovations/ time of replacement</b> | <ul style="list-style-type: none"> <li>Encourage A/C units to also provide electric space heating when installing, relocating, or replacing existing units.</li> <li>Prepare for future electrification of appliances within scope of renovation when installing a gas appliance.</li> <li>Electric panel upgrades to reserve space for future electric appliances.</li> </ul> | San Mateo, Piedmont, Portola Valley, San Luis Obispo, Marin County |



# Questions and Feedback



Staff welcomes and is seeking feedback on:

- Draft Vision, Goals and Strategies
- Action plan for public EV Charging
- Direction to staff on options for building decarbonization policies