

# Blueprint for Carbon Neutrality

February 2024



CLIMATE READY  
2030

# Public Review Process

- Public Draft released for comment October 2 - November 17, 2023
- Compiled public comments and recommend Blueprint changes: November 2023 - January 2024
- Presentations to CCBs – January & February 2024
- CAC Workshop February 8, 2024
- CAC hearing for final draft: Spring 2024
- Planning Commission Recommendation: Spring 2024
- City Council Consideration: Spring 2024



# What is the Blueprint for Carbon Neutrality?

- Refines the **shared vision** for climate action
- **Builds on** City Council priorities, Climate Action Commission Ad Hoc work, and existing plan and program implementation, such as the Climate Emergency Framework, General Plan, and more
- Incorporates **new, innovative practices**
- **Short-range plan** (<10 years) to guide program implementation, with monitoring and adjustment built in
- Draft released on October 2, 2023

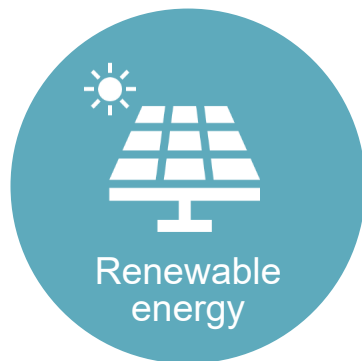


# Mitigation v. Adaptation

## Blueprint for Carbon Neutrality

### Greenhouse Gas Mitigation

Actions that are taken to reduce and curb greenhouse gas emissions



### Climate Adaptation

Actions to reduce vulnerability to the effects of climate change



## General Plan Update

# Blueprint Process

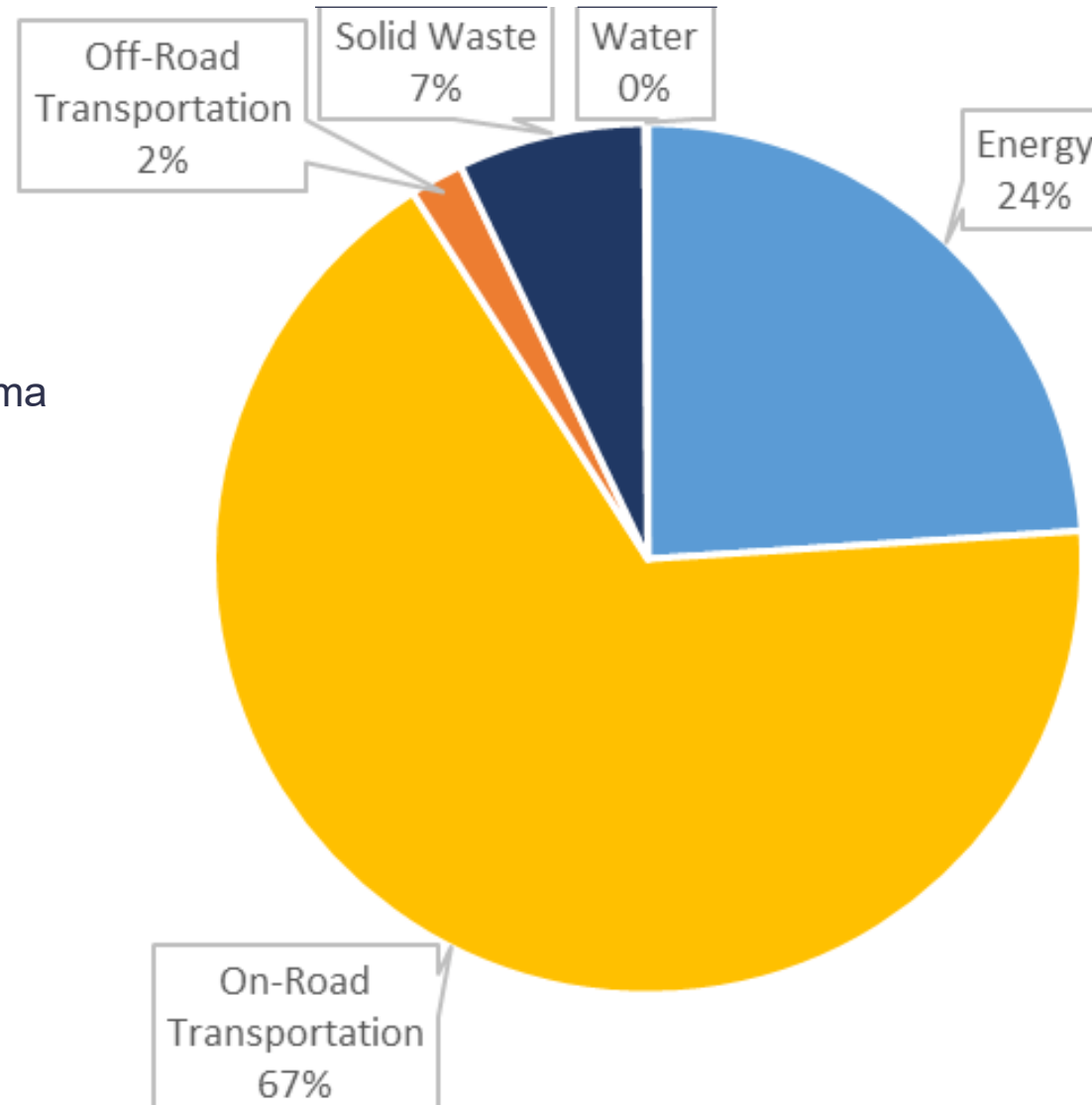
- Community and Municipal GHG Inventories (Summer – Fall 2021)
- GHG reduction analysis and measure development (Fall 2021 – Spring 2022)
- Develop GHG Action Plans (Spring – Fall 2022)
- Write Admin Draft and Revise (Winter 2022 – Fall 2023)
- Public Draft available for comment, Open House (Fall 2023)
- CCB Review (January-February 2024)
- CAC Review (Ongoing)
- City Council Review (Anticipated April-May 2024)



Multiple rounds of review and discussions with Project Team, City Executive Team, and CAC

# 2018 Community GHG Emissions Profile

Community-wide, Petaluma emitted **472,422** metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>e) in 2018

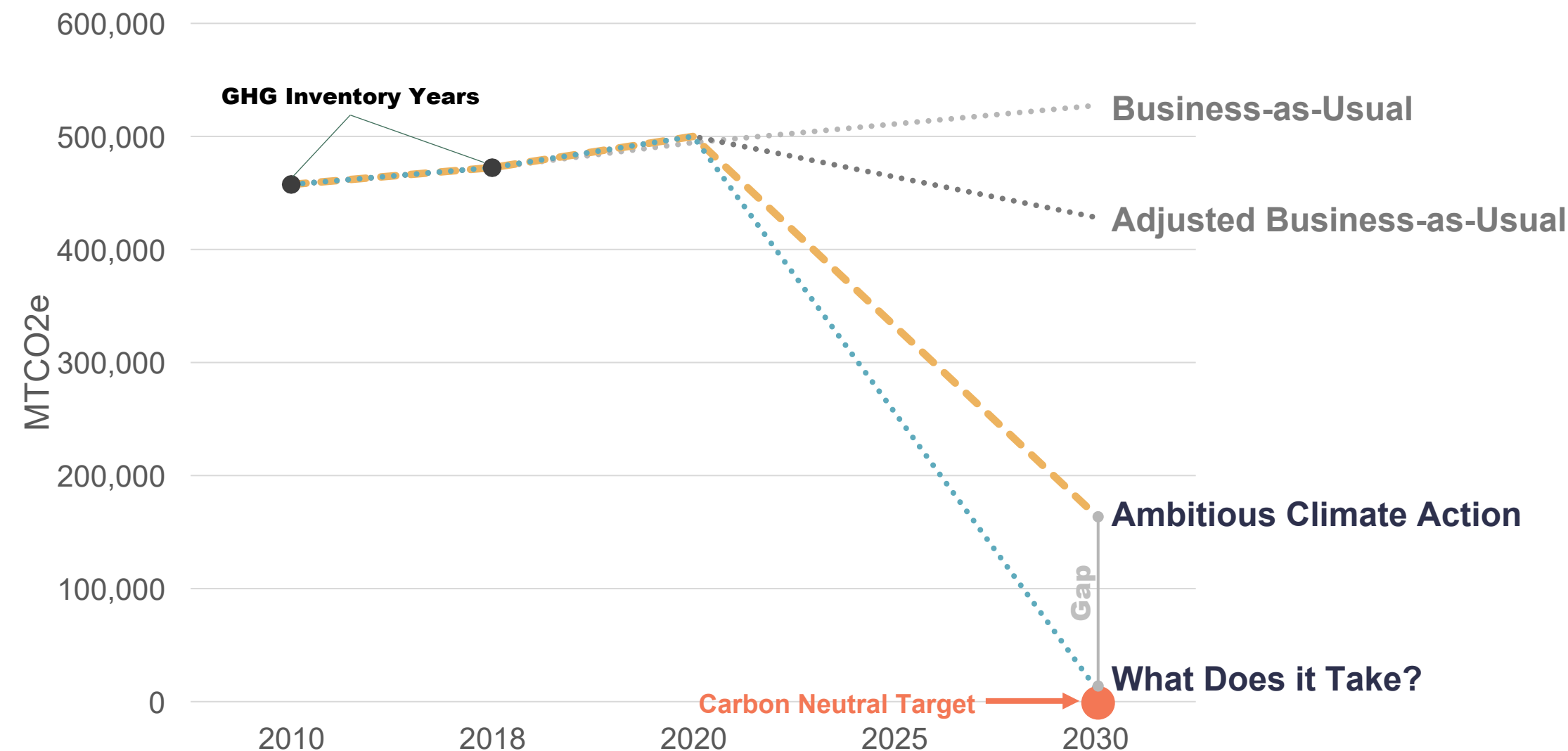


# WHAT iF?

## Climate Action Scenarios

- **Business-as-Usual (BAU):** This GHG emissions forecast considers how Petaluma's emissions would change over time if no action were taken to reduce emissions by the State or at the local level.
- **Adjusted Business-as-Usual (ABAU):** This forecast shows how Petaluma's emissions are anticipated to change accounting for the impacts of adopted State policies without local action.
- **Ambitious Climate Action:** This scenario requires the City and community to take ambitious action within the realistic bounds of current capacity, technology, and State and Federal policy.
- **What Does it Take?:** This scenario requires the City and individuals to make dramatic changes in daily life or operations to meet carbon neutral by 2030 goal.

# Climate Action Scenarios





# What Do These Scenarios Represent by 2030?



**Buildings Efficiency  
and Decarbonization**  
(% of all buildings)



**Electric Vehicles**  
(% of all vehicles)



**Mode Share**  
(% of all trips by  
non-auto modes)



**Emissions Gap**  
to 2030 Carbon Neutral  
Goal (MTCO<sub>2</sub>e)

**Ambitious  
Climate Action**

**40%**

**25%**

**50%**

**-165,280**

**What Does it  
Take?**

**85%**

**25%**

**75%**

**-12,600**

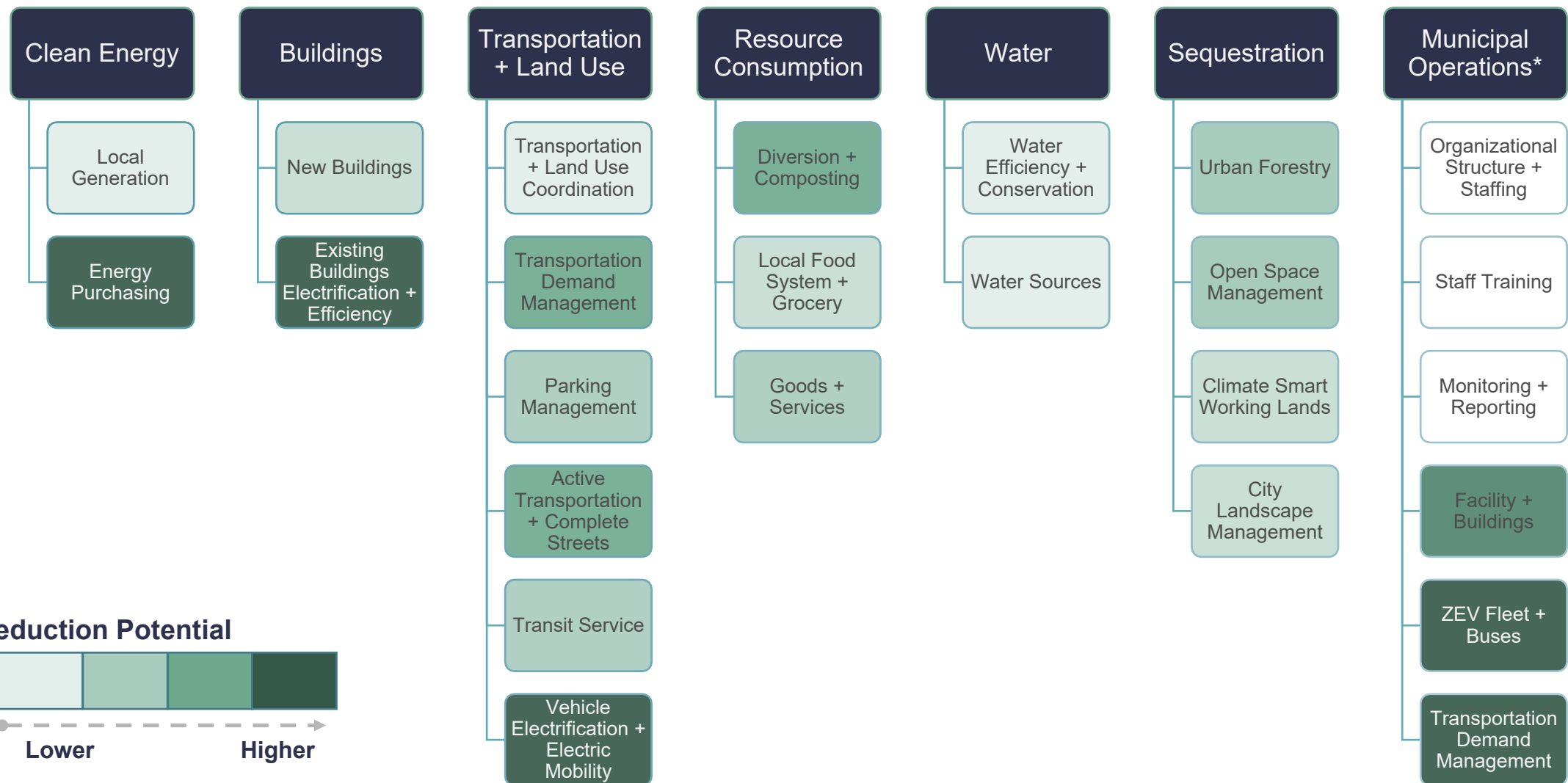
# Summary of Action Plans

Sector	# of Action Plans	# of City Actions	# of Partnership Actions	# of Cornerstone Actions	Reduction Potential* (MTCO <sub>2</sub> e)
Clean Energy	2	9	4	0	4,000
Buildings	2	21	18	4	66,000
Transportation + Land Use	6	30	21	7	185,000
Resource Consumption	3	16	18	3	4,000
Water	1	12	6	0	1,000
Sequestration + Natural Systems	4	30	25	3	400
Municipal Operations	6	40	17	5	N/A**

*\*Estimated annual reductions in 2030*

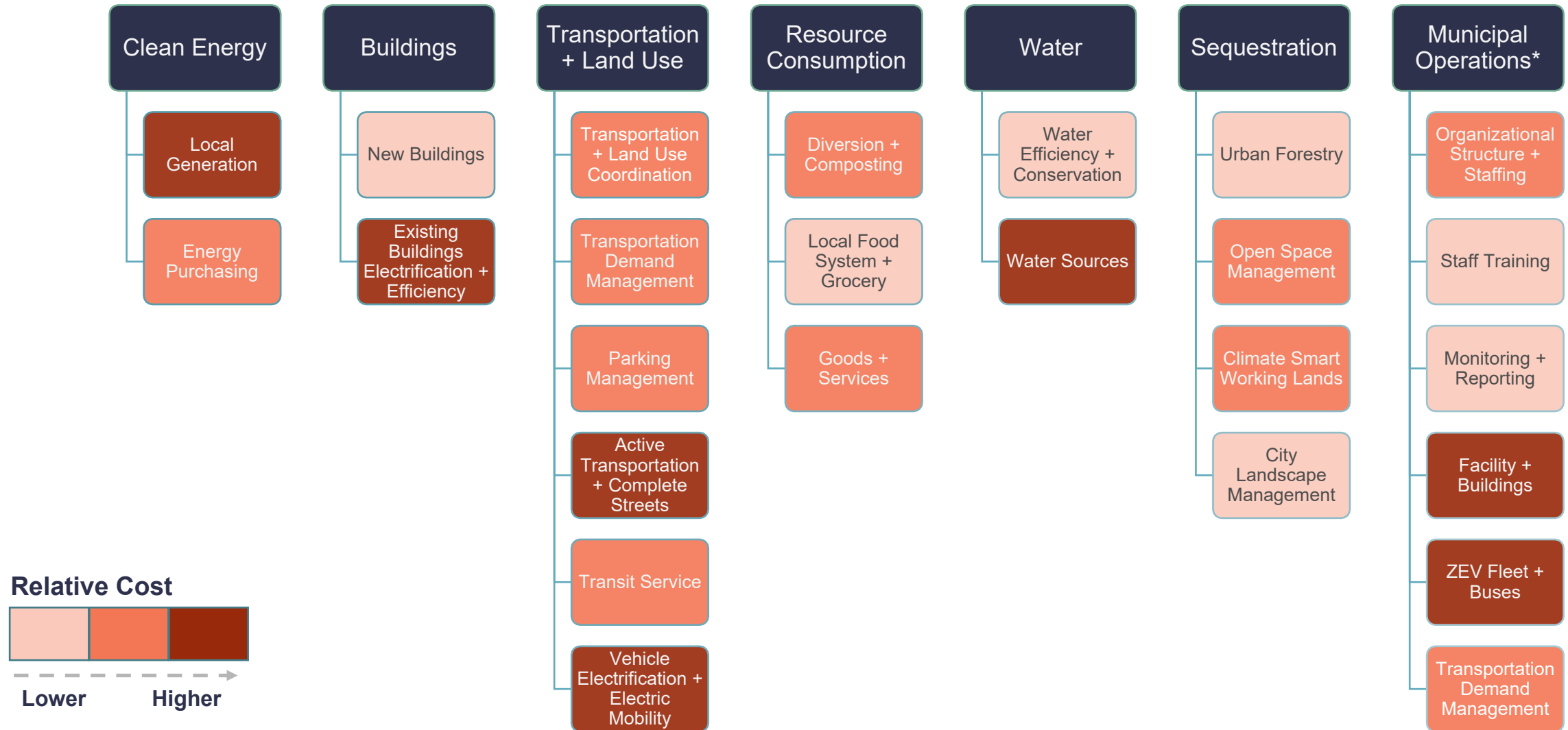
*\*\*Emission reduction incorporated into communitywide reductions*

# Action Plans – GHG Reduction Potential



*\*Relative to municipal operations only.*

# Action Plans – Relative Cost



*\*Relative to municipal operations only.*



# Cornerstone Actions

- 22 priority actions
- Foundational actions that support deep reductions and education
- Aligns with several current City Council priorities
- Under review with CAC



# Cornerstone Actions: **Transportation and Land Use**

By 2025



Transportation Demand Management (TDM) ordinance and vehicle miles traveled (VMT) impact fee

By 2025/30



Completed Active Transportation Plan (ATP), Local Safety Plan, GPU integration, implementation by 2030

By 2025



Electric Vehicle (EV) charging reach code



# Cornerstone Actions: Transportation and Land Use



# Cornerstone Actions: **Municipal Operations**

By 2026



Infrastructure upgrades  
of Corp Yard, Petaluma  
Transit

By 2026/30



Zero Emission Vehicle  
(ZEV) plan,  
implementation of light,  
medium duty by 2030



# Transit Service Strategy: Implementation Actions

1. (Ongoing), continue to upgrade and improve Petaluma Transit infrastructure...
2. By 2024, complete update to the Petaluma Short-Range Transit Plan.
  - a. Incorporate greenhouse gas emission reduction as a plan objective.
  - b. Assess service and service performance in disadvantaged communities.
3. By 2025, develop funding plan improving bike and pedestrian network connections to bus stops.
4. By 2025, implement and promote the K-12 free youth transit pass program.



# Transit Service Strategy: Implementation Actions

5. By 2026, conduct study to determine where and when increased levels of service are needed
6. By 2027, establish an on-demand microtransit pilot program to provide transit services in disadvantaged and other communities.
7. By 2027, develop and pilot a subsidized fare (part of a Universal Basic Mobility Program), reduced fare, and/or free transit program.
8. By 2030, install transit signal prioritization and bus-only lanes.
9. By 2030, install bus pull-outs at all feasible bus stops along major arterial streets.

