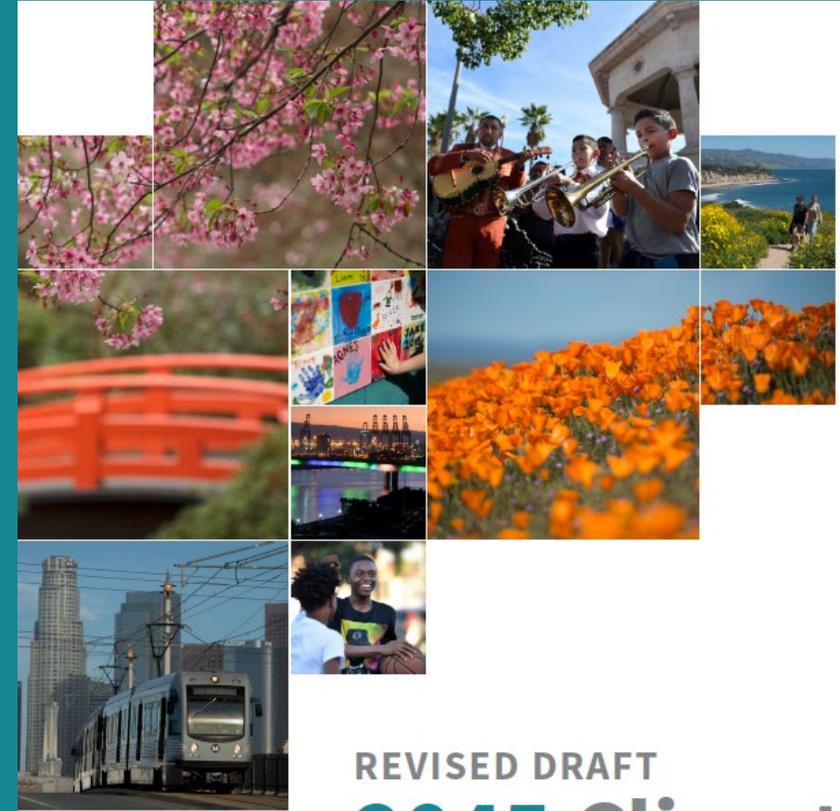


LA COUNTY  
PLANNING

# Los Angeles County 2045 CAP

Youth Climate Commission  
September 7, 2023



REVISED DRAFT  
**2045 Climate  
Action Plan**

County of Los Angeles  
March 2023

# LA COUNTY PLANNING

# LA COUNTY PLANNING

Planning department for all unincorporated areas of Los Angeles County

## **Long-range Planning**

Developing policies and plans to shape the future built environment

## **Permit Processing**

Reviewing and approving permits that adds to tomorrow's built environment

## **Zoning Enforcement**

Enforcing zoning rules to make sure today's built environment is safe and legal

# LOS ANGELES COUNTY



**#1** most populous county in US  
**10 million** 

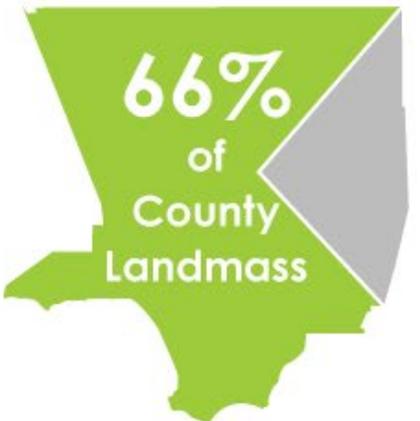
can fit:  
**2 million**  
  
fields

 **13 Voting Languages**

# UNINCORPORATED LA COUNTY



1.5 million people



140 unincorporated communities

# COUNTY'S ROLE AND REACH

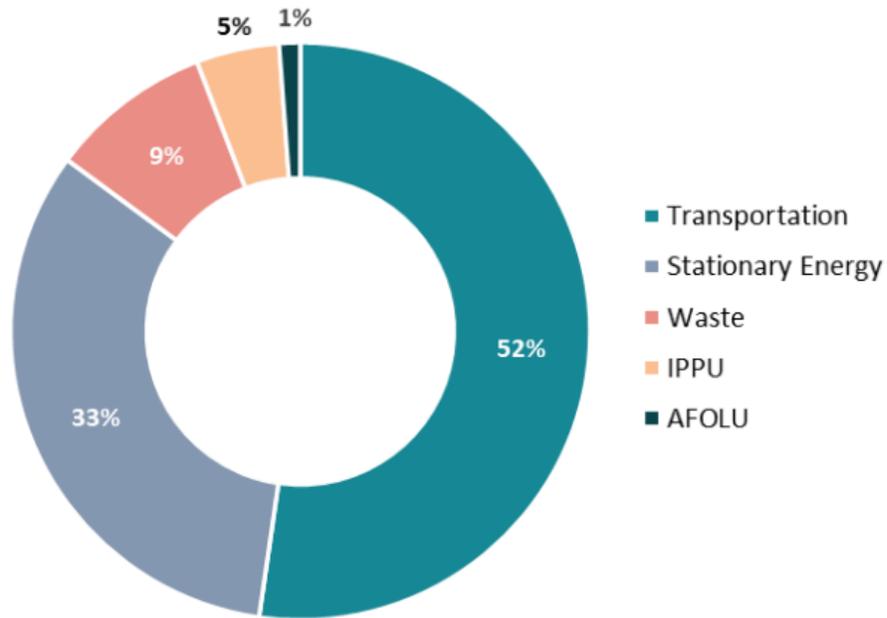
- Can make changes on a larger, regionwide-scale
- Can set standards for residents and businesses
- Land use policies or regulations apply only to unincorporated areas



**WHAT IS A  
CAP?**

# CLIMATE ACTION PLAN

County's pathway to reduce greenhouse gas (GHG) emissions in unincorporated areas.



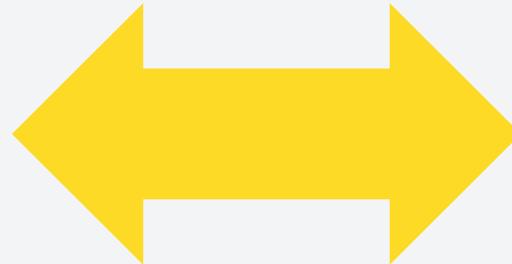
**85%**  
GHG emissions from  
**TRANSPORTATION**  
+  
**BUILDINGS**

Abbreviations: AFOLU = agriculture, forestry, and other land use; IPPU = industrial processes and product use

Figure ES-1: 2018 Greenhouse Gas Emissions Inventory for Unincorporated Los Angeles County, by Sector

# PRIMARY COMPONENTS

- GHG Inventory
- GHG Forecasts
- GHG Targets for 2030, 2035, 2045



- Approach Hierarchy
  - Strategy
    - Measures
      - Actions
- Equitable Implementation

**WHY DO WE NEED A  
CAP?**

# BOARD COMMITMENTS AND LEADERSHIP

## Board of Supervisors Motions

- Support The Paris Climate Agreement
- Energy Resiliency Policy and Impact on Disadvantaged Communities
- Support the Medium- and Heavy-Duty Electric Vehicle Infrastructure Act
- Addressing the Need to Create Climate Resilient Communities
- Ensuring the Equitable Decarbonization of Buildings

3

KEY ELEMENTS OF THE  
**PARIS AGREEMENT**  
ON CLIMATE CHANGE

▶▶ 1.

Limit temperature  
rise to 1.5C



▶▶ 2.

Review countries'  
commitments to  
cutting emissions  
every five years



▶▶ 3.

Provide climate  
finance to  
developing  
countries



# FEDERAL AND STATE CATALYSTS




  
**JUSTICE40**
  
 A WHOLE-OF-GOVERNMENT INITIATIVE
   
 ENVIRONMENTAL JUSTICE

*"We'll create good jobs for millions of Americans who will be able to withstand the devastating effects of climate change and environmental justice."*
  
 PRESIDENT JOE BIDEN, 2022 STATE OF THE UNION ADDRESS

**What is the Justice40 Initiative?**
  
**F**or the first time in our history, the President has made it a goal that 40% of the federal investments flowing through the executive branch go to marginalized, underserved, and disadvantaged communities. President Biden made this historic commitment on his first days of taking office.

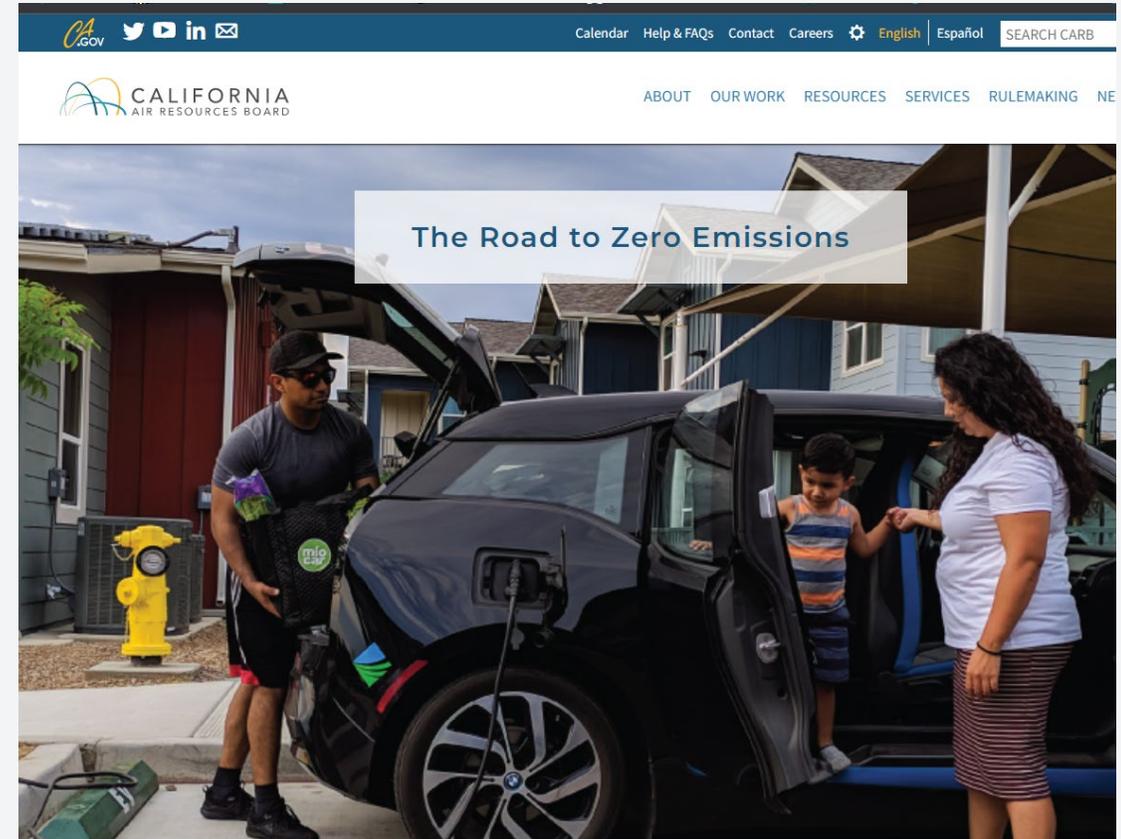
**What kinds of investments fall under Justice40?**
  
 The categories of investment are: climate resilience, clean energy, efficiency, clean transit, affordable housing, and workforce development, remediation, and the development of critical clean energy infrastructure.




**CALIFORNIA STATE ASSEMBLY**
  
 Home Members Committees Schedule




**CALIFORNIA STATE SENATE**
  
 Home Senators Committees, Offices & Caucuses Publications Media Citizens' Guide




 Calendar Help & FAQs Contact Careers English Español SEARCH CARB

**CALIFORNIA AIR RESOURCES BOARD**
  
 ABOUT OUR WORK RESOURCES SERVICES RULEMAKING NEWS

**The Road to Zero Emissions**

LA COUNTY  
PLANNING

SHAPING TOMORROW

# SLOWING DOWN THE EFFECTS OF CLIMATE CHANGE



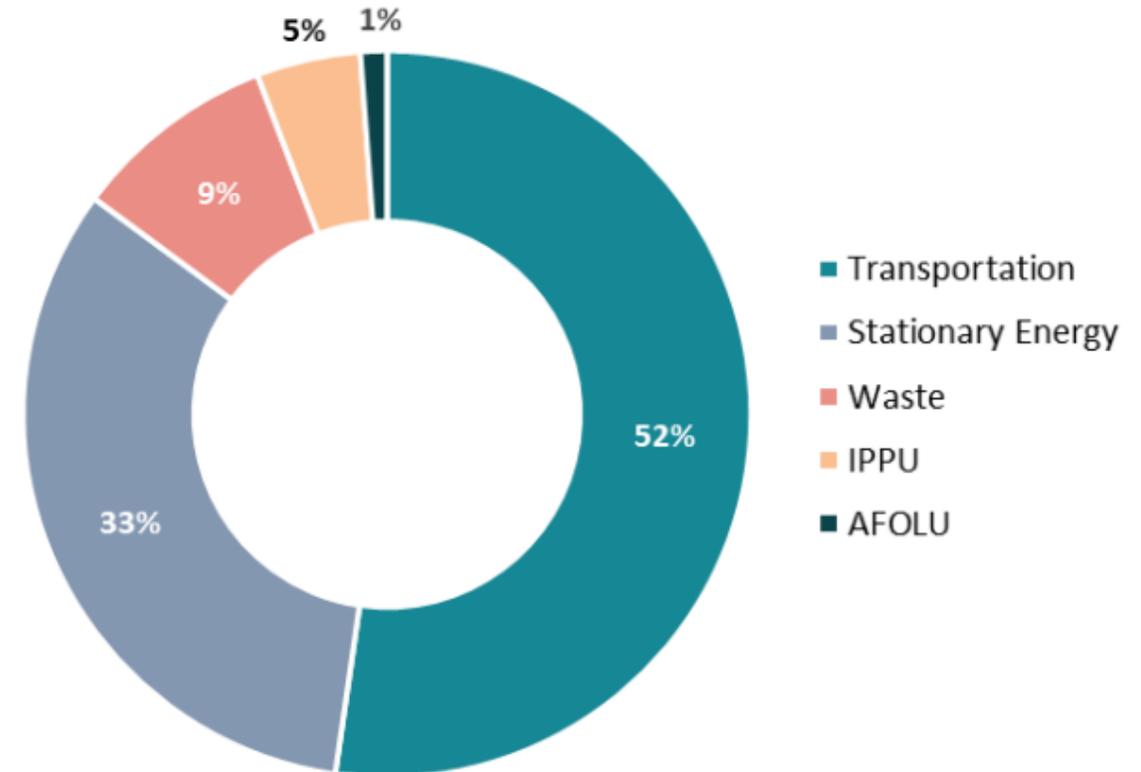
# BENEFITS FOR RESIDENTS

- Cleaner indoor and outdoor air quality
- More shade over sidewalks for better walking experience
- Diverse public transit options
- Preparing communities to be resilient to changing climate
- Reduced weather event instability
- Global economics that affect daily life like food costs

# **FUNCTIONS OF A CAP**

# GHG EMISSIONS INVENTORY

- Identifies sectors to target
- Provides baseline information of current emissions levels
- Uses 2018 emissions data

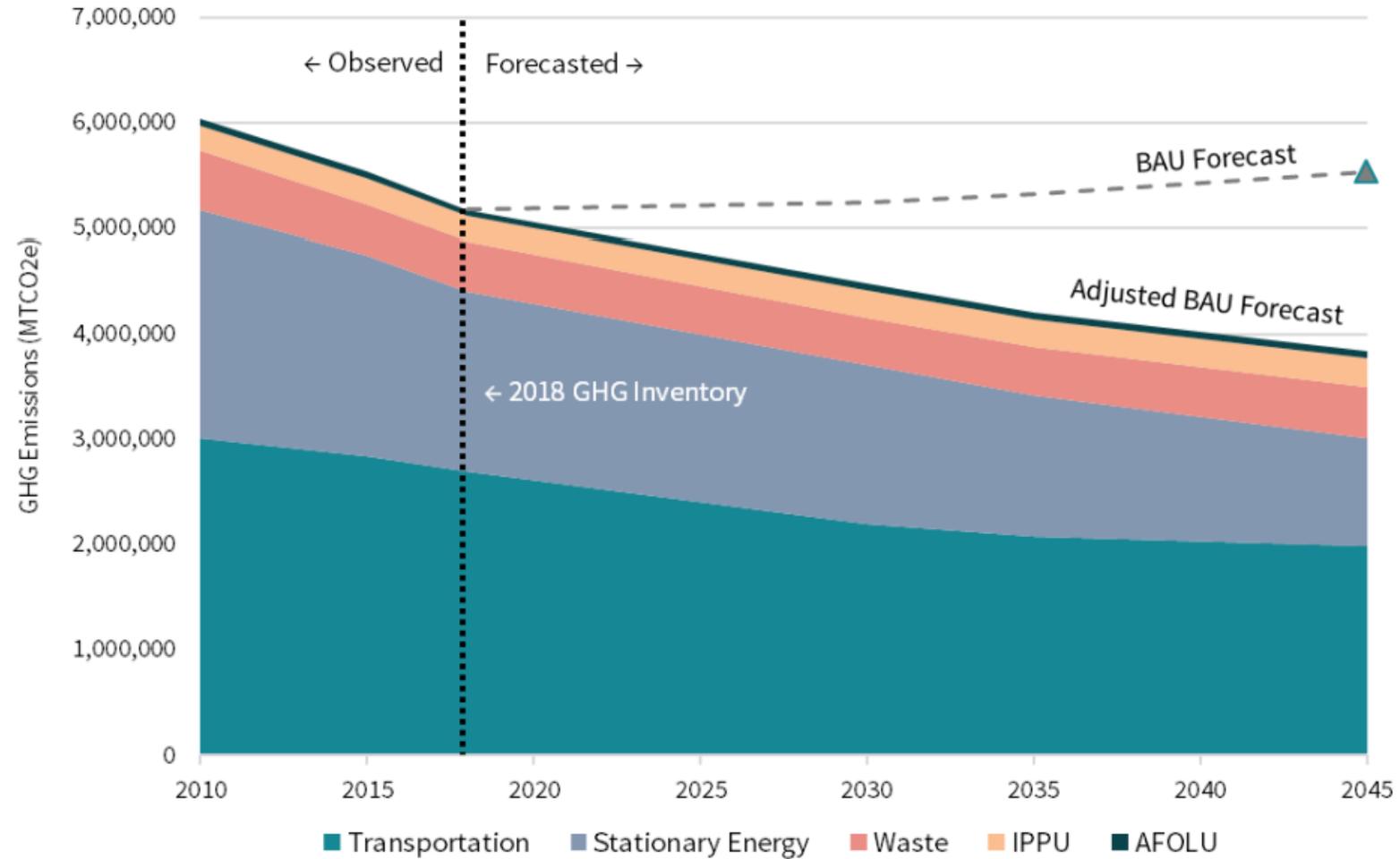


Abbreviations: AFOLU = agriculture, forestry, and other land use; IPPU = industrial processes and product use

# FORECASTING GHG EMISSIONS

**Business As Usual (BAU)**  
Assumes no further govt action is taken to reduce GHG emissions.

**Adjusted BAU**  
Adjusts for federal, state, and County regulations that were implemented before development of the 2045 CAP.

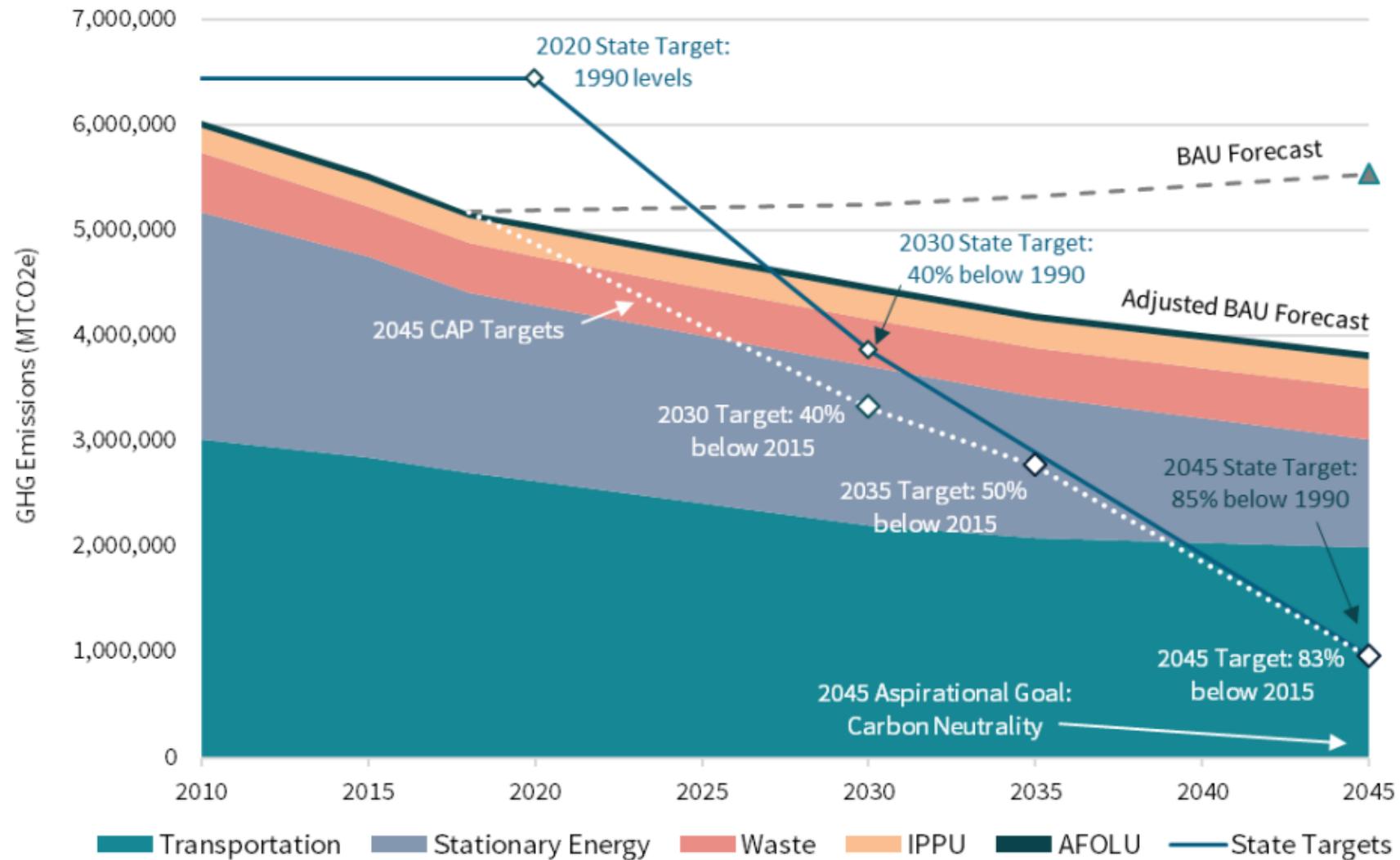


**Figure 2-4: Forecast of 2045 Adjusted Business-as-Usual Greenhouse Gas Emissions**

Source: Appendix B: Emissions Forecasting and Reduction Methods.

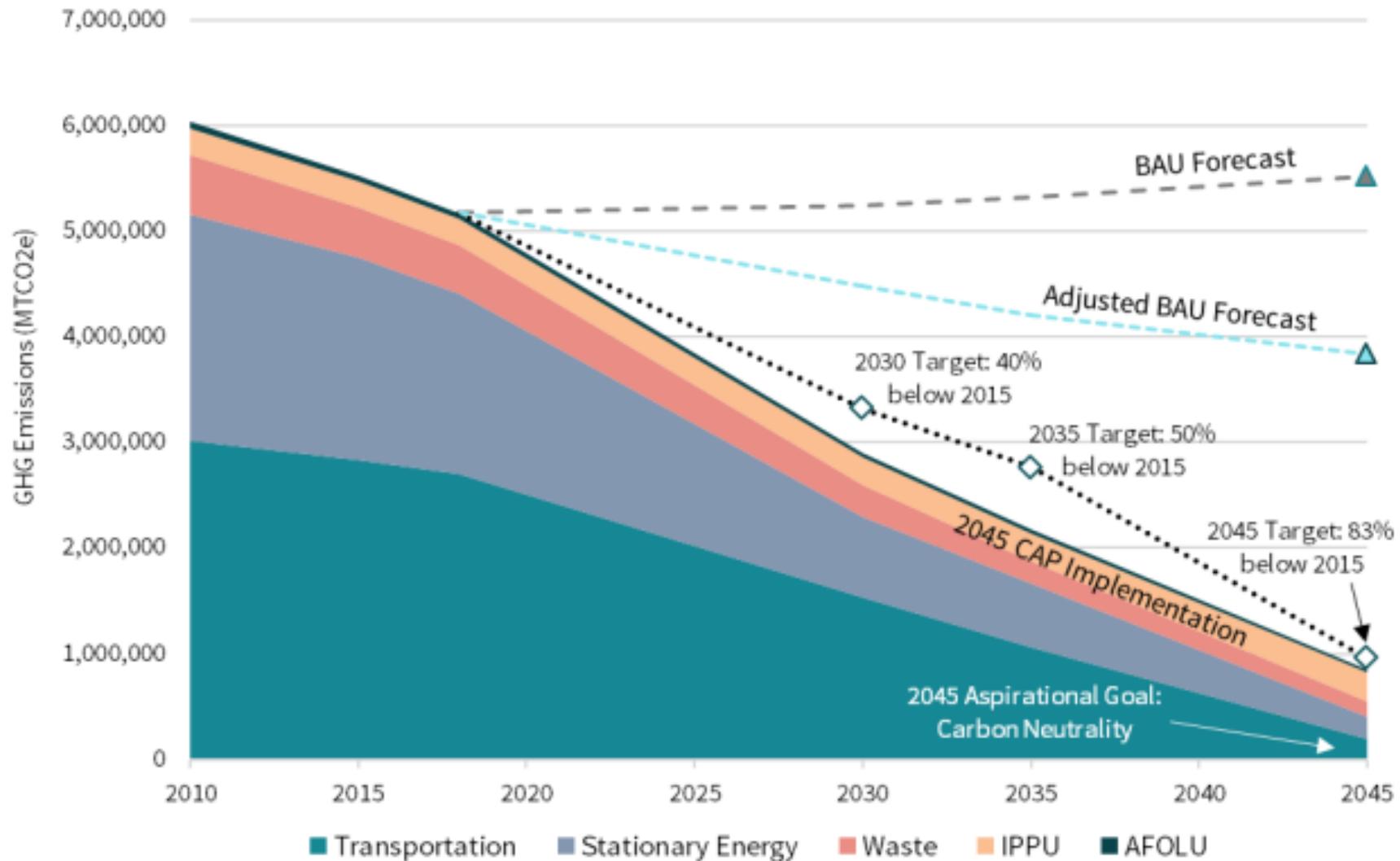
# SETTING REDUCTION TARGETS

YEAR	CALIFORNIA STATEWIDE	2045 CAP
2030	40% below 1990 levels ( <i>SB 32</i> )	40% below 2015 levels ( <i>equivalent to 48% below 1990 levels</i> )
2035	None	50% below 2015 levels
2045	85% below 1990 levels ( <i>AB 1279</i> ) Carbon Neutrality ( <i>AB 1279</i> )	83% below 2015 levels ( <i>equivalent to 85% below 1990 levels</i> ) Carbon Neutrality ( <i>Aspirational Goal</i> )



**Figure 2-6: 2030, 2035, and 2045 Greenhouse Gas Emissions Targets and 2045 Aspirational Goal**

Source: Appendix B: Emissions Forecasting and Reduction Methods.



**Figure 3-1: Communitywide Greenhouse Gas Emissions Forecasts with 2045 Climate Action Plan Implementation**

Source: Appendix B: Emissions Forecasting and Reduction Methods.

# ROADMAP TO ACHIEVING TARGETS

- **Strategies: 10**

*Broad overarching goals within each emissions sector (topic area)*

- **Measures: 25**

*Programs designed to be quantified for GHG emission. Supports strategies and achieved through implementing actions*

- **Actions: 95**

*Policies, programs, or tools that collectively make meaningful progress toward the associated measure and strategy*

# ROADMAP TO ACHIEVING TARGETS

- **Strategy**

*Decarbonize the Energy Supply*

- **Measure**

*Procure Zero-Carbon Electricity*

- **Action**

*Enroll the community in CPA's 100 percent Green Power option*

## STRATEGY

### Energy Supply

Strategy 1: Decarbonize the Energy Supply

### Transportation

Strategy 2: Increase Densities and Diversity of Land Uses Near Transit

Strategy 3: Reduce Single-Occupancy Vehicle Trips

Strategy 4: Institutionalize Low-Carbon Transportation

### Building Energy and Water

Strategy 5: Decarbonize Buildings

Strategy 6: Improve Efficiency of Existing Building Energy Use

Strategy 7: Conserve Water

### Waste

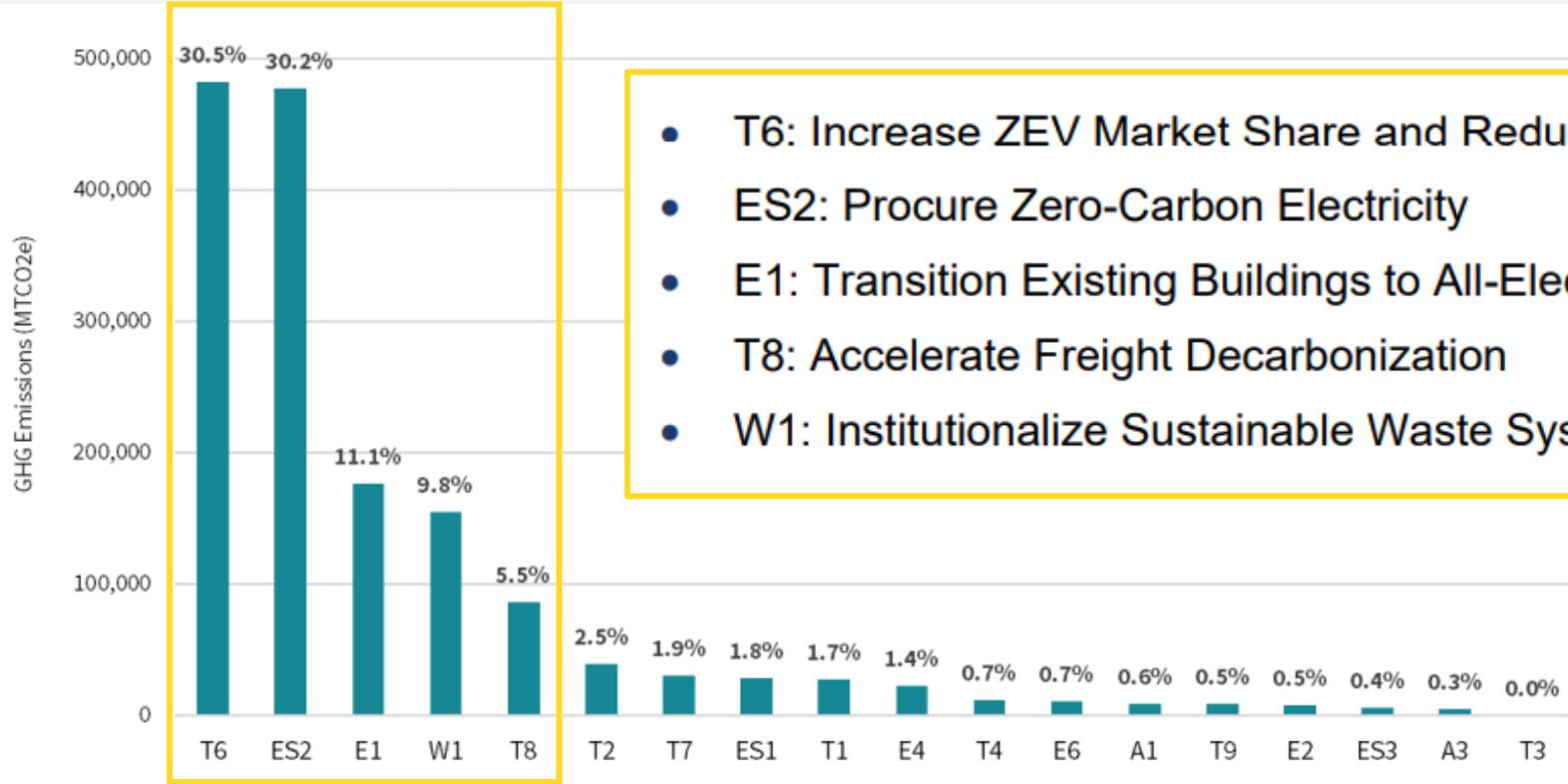
Strategy 8: Minimize Waste and Recover Energy and Materials from the Waste Stream

### Agriculture, Forestry, and Other Land Use

Strategy 9: Conserve and Connect Wildlands and Working Lands

Strategy 10: Sequester Carbon and Implement Sustainable Agriculture

# CORE MEASURES



- T6: Increase ZEV Market Share and Reduce Gasoline and Diesel Fuel Sales
- ES2: Procure Zero-Carbon Electricity
- E1: Transition Existing Buildings to All-Electric
- T8: Accelerate Freight Decarbonization
- W1: Institutionalize Sustainable Waste Systems and Practices

**Figure 3-2: Greenhouse Gas Emissions Reduction Measures, Ranked by 2030 Reduction Potential**

Source: Appendix B: Emissions Forecasting and Reduction Methods.

ID	STRATEGY/MEASURE/ACTION	LEAD	PARTNERS	PERFORMANCE OBJECTIVES	TRACKING METRICS	TIME FRAME	COST	FUNDING
<b>Strategy 1: Decarbonize the Energy Supply</b>								
ES1 <sup>a</sup>	<b>Develop a Sunset Strategy for All Oil and Gas Operations:</b> Develop a sunset strategy for all oil and gas operations that prioritizes disproportionately affected communities and develop a strategy for carbon removal.			Reduce oil and gas operations: <ul style="list-style-type: none"> <li>• 40% by 2030</li> <li>• 60% by 2035</li> <li>• 80% by 2045</li> </ul> Examine all active and abandoned oil wells for fugitive emissions of GHGs. Conduct carbon removal feasibility study.				
ES1.1	Collaborate with other local jurisdictions and utilities to develop a sunset strategy for all oil and gas operations that prioritizes disproportionately affected communities. Develop an ordinance.	CSO, DRP	PW, ISD, cities, California Geologic Energy Management Division; DPH		<ul style="list-style-type: none"> <li>• Number of well sites decommissioned and remediated</li> <li>• Emissions reductions achieved through well decommissioning</li> </ul>	Short term (2024–2030)	\$–\$\$	County General Fund
ES1.2	Develop a policy that requires the examination of all active, idle, and abandoned oil wells for fugitive emissions of GHGs. Coordinate with federal and state agencies conducting fugitive emissions data.	CSO	DRP, PW, ISD, cities, California Geologic Energy Management Division; DPH		<ul style="list-style-type: none"> <li>• Number of oil wells examined</li> <li>• Amount of GHGs emitted (estimated or measured)</li> </ul>	Short term (2024–2030)	\$–\$\$	County General Fund
ES1.3	Develop a carbon removal strategy that considers direct air capture and carbon capture and sequestration (CCS).	CSO	PW, DRP, ISD, CARB CCS Program		<ul style="list-style-type: none"> <li>• Number of CCS systems constructed</li> <li>• GHG emissions removed annually</li> </ul>	Medium term (2030–2035)	\$–\$\$\$\$	Federal CIFIA Program, Infrastructure Investment and Jobs Act of 2021, SB 905, SB 1137, AB 1757, and SB 27
ES2 <sup>a</sup> (Core)	<b>Procure Zero-Carbon Electricity:</b> Supplying unincorporated Los Angeles County’s power demand with zero-carbon electricity is critical to achieving significant GHG emissions reductions. The Clean Power Alliance (CPA) is a nonprofit and community choice energy provider that currently serves 32 communities across Southern California.			Participate in CPA’s Green Power option, SCE’s Green Rate option, or other available 100% zero carbon electricity service: <ul style="list-style-type: none"> <li>• 100% municipal participation by 2025.</li> <li>• 96% community participation by 2030 (approximately 4% opt-out rate).</li> </ul>				
ES2.1	Transition all County facilities within unincorporated areas to CPA’s 100% Green Power option, SCE’s 100% Green Rate option, or other available 100% renewable electricity service. <sup>m</sup>	CSO, ISD	CPA, SCE, LA100		<ul style="list-style-type: none"> <li>• CPA 100% Green Power enrollment for County accounts</li> <li>• SCE’s 100% Green Rate enrollment for County accounts</li> <li>• Enrollment in other available 100% renewable electricity service</li> <li>• Electricity supplied by CPA</li> </ul>	Short term (2024–2030)	\$	Funded; Federal Inflation Reduction Act CARB Greenhouse Gas Reduction Fund, CARB California Climate Investments program, CPUC California Solar Initiative, CPUC Self-Generation Incentive Program, Low-Income Solar and Wind Investment Tax Credit, DOE Renewable Energy and Efficiency Energy grants

# CLIMATE EQUITY GUIDING PRINCIPLES



## **Prioritize Frontline Communities**

Develop and implement strategies that identify, prioritize, and effectively support and create opportunities for the most disadvantaged geographies and vulnerable populations. Actively seek to remove barriers to investment and incorporate protections for people and communities.



## **Authentically Engage Communities**

Authentically engage residents, organizations, and other community stakeholders to inform and determine implementation and investments. Include stakeholders in decisions that impact their lives.



## **Use Equity-Centered Data and Analysis**

Use data to effectively assess and communicate equity needs and support timely assessment of progress. Understand the way that funding allocation requirements and formulas lead to disinvestment and reformulate to put frontline communities first.



## **Work Collaboratively**

Work collaboratively and intentionally across departments as well as across leadership levels and decision-makers within the County, with other government agencies, and with external partners and community-based organizations.



## **Achieve Results**

Act urgently and boldly to achieve tangible results. Create a cycle of feedback with communities through implementation to continually refine and improve.

# INCLUSIVE & EQUITABLE PROCESS

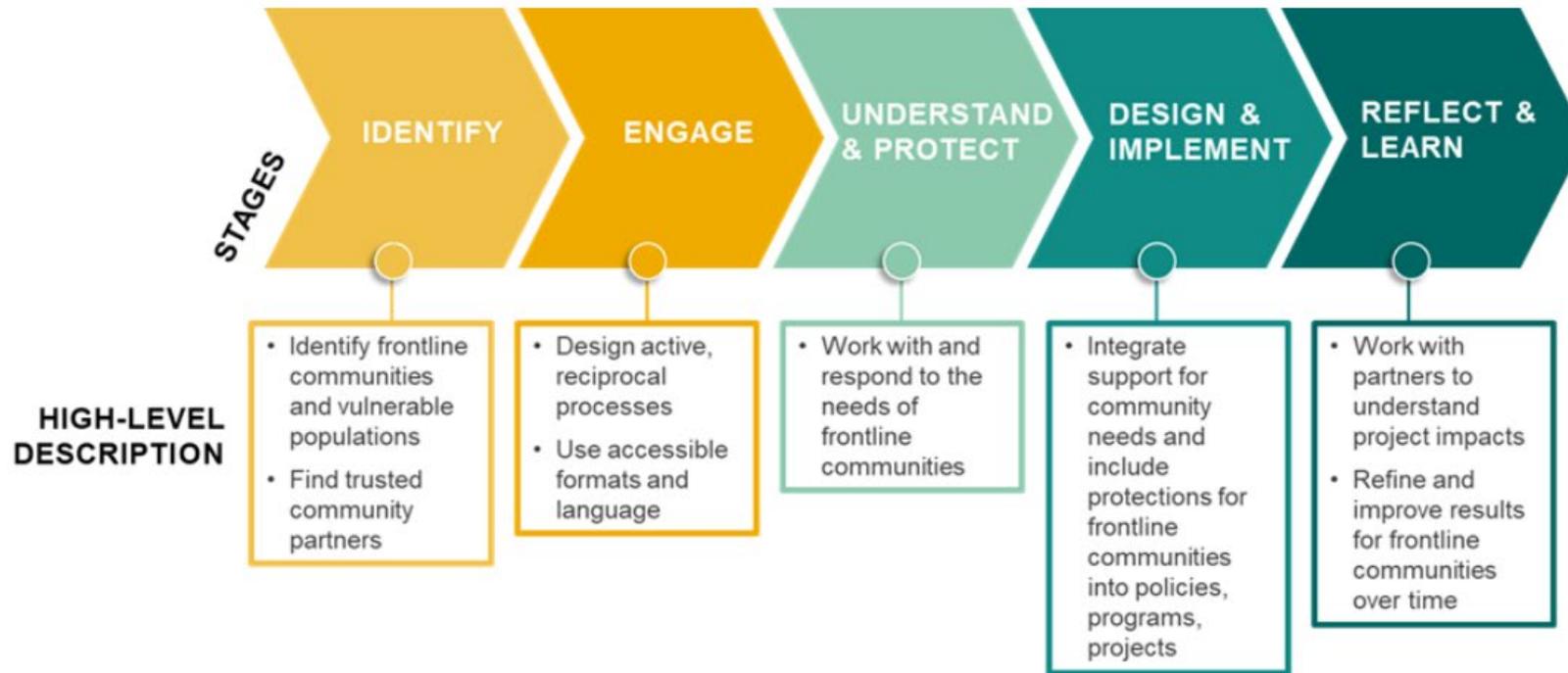


Figure 1-3: Integrating Equity into 2045 CAP Implementation

# TIMELINE FOR THE CAP

# CAP PROJECT HISTORY



# UPCOMING EVENTS

September 7, 2023	Youth Climate Commission workshop
September 27, 2023	RPC Presentation 1 (No Action) - Overview of the structure and functions of the CAP
October 4, 2023	RPC Presentation 2 (No Action) - Topics of concern raised during public outreach events.
November 15, 2023	RPC Public Hearing - Consider recommending the approval of the CAP
TBD	BOS Public Hearing - Consider the approval of the CAP
TBD	CAP Implementation

# IMPLEMENTATION CONSIDERATIONS

- Disadvantaged communities
- Upfront costs for retrofits
- Efficacy of rebate programs
- Infrastructure expansion



# IMPLEMENTATION OPPORTUNITIES

- Direct install programs
- Grant programs
- One-stop locations to get information
- Home assessments to help plan and estimate cost
- List of County approved contractors/installers
- More information in other languages



# CHARENTE WORKSHOP

## Contact Information:

Thuy Hua, Supervising Planner  
Iris Chi, Senior Planner

[climate@planning.lacounty.gov](mailto:climate@planning.lacounty.gov)

213-974-6461

[planning.lacounty.gov/climate](http://planning.lacounty.gov/climate)