

First Public Workshop: California's Approach under U.S. EPA's Climate Pollution Reduction Grant Program

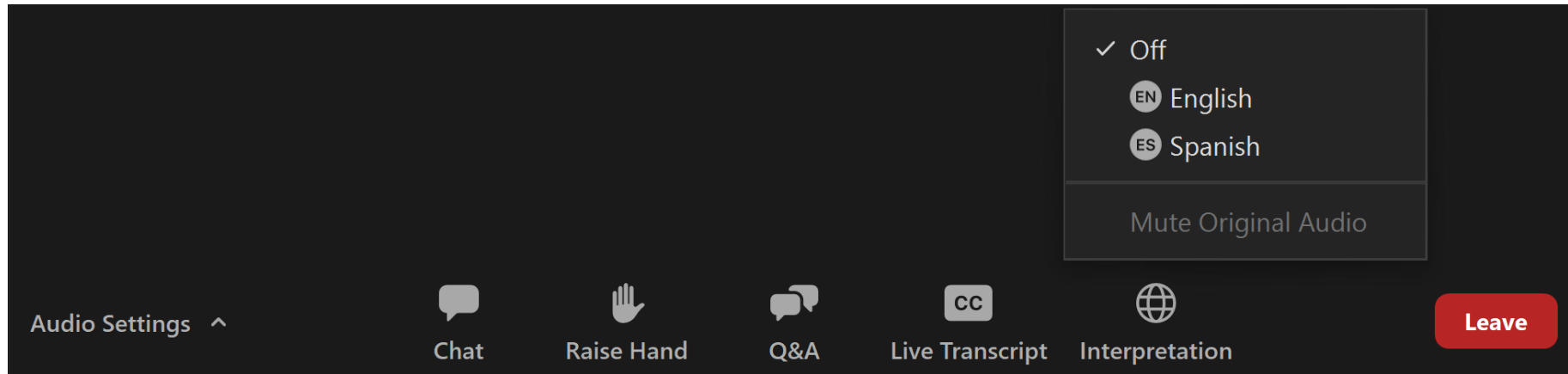
AUGUST 3, 2023



Language Interpretation

Cómo escuchar la interpretación de un idioma

1. In your meeting controls, click **Interpretation**, located at the bottom of the screen. / En los controles de la reunión, haga clic en (**Interpretation**). Esto se puede localizar en la parte de abajo.
2. Click the language that you would like to hear. For this meeting, you will have English and Spanish as your options. / Haz clic en el idioma que desee escuchar. Para esta reunión, hay las opciones de Inglés y Español.
3. To only hear the interpreted language (Spanish), click **Mute Original Audio**. / Para escuchar solo el idioma interpretado (español), haz clic en (**Mute Original Audio**).



Workshop Logistics

- Workshop materials and comment docket available at California's CPRG Meetings and Workshops webpage
 - <https://ww2.arb.ca.gov/us-epas-climate-pollution-reduction-grant-program-meetings-workshops>
 - Written feedback may be submitted to comment docket open through August 24th at 11:59 p.m. Pacific Time.
- Public comment after presentations
 1. Use the “Raise Hand” function in the toolbar at bottom of your screen
 2. When staff call your name, please “Unmute” and introduce yourself
 3. Commenters will be given 3 minutes. No ceding time to others.



Agenda

- Statewide federal funding landscape
- EPA's Climate Pollution Reduction Grant (CPRG) Program and California's CPRG workplan
- Existing climate plans that will inform the State's CPRG deliverables
- Public Comment

Federal Funding

Maximizing IJA & IRA Funds for California



Magnitude of Funding

Infrastructure Investments and Jobs Act (IIJA)

- \$1.2 trillion of investments
- 365 programs in legislation
- Funding Categories:
 - Transportation
 - Climate, Energy, and the Environment
 - Broadband
 - Other

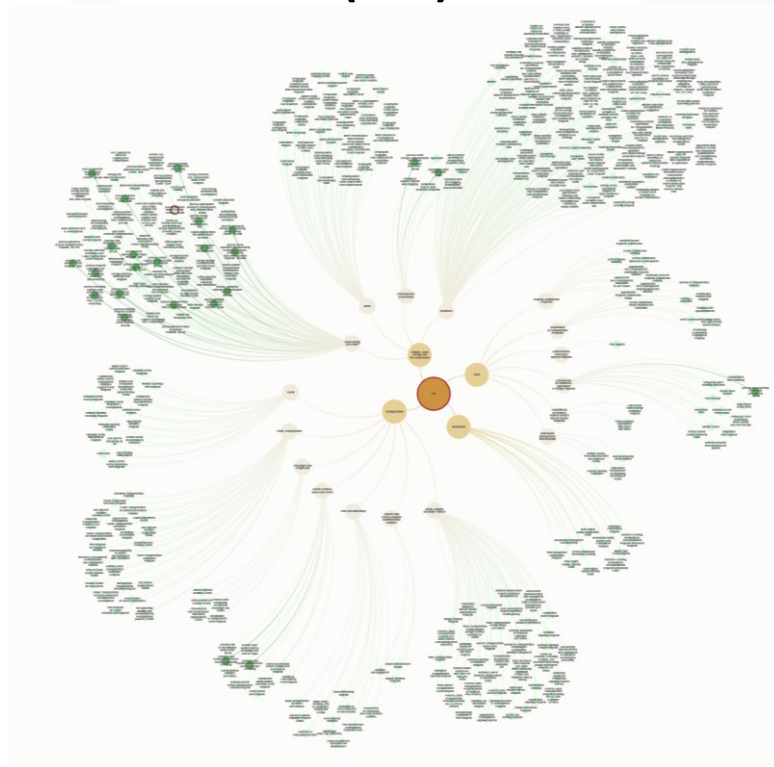
Inflation Reduction Act (IRA)

- \$437 billion of investments
- 125 programs in legislation
- Funding Categories:
 - Clean Energy Technology
 - Air Pollution
 - Building Energy Efficiency
 - Low Carbon Federal Operations
 - Climate Smart Agriculture
 - Community Resilience

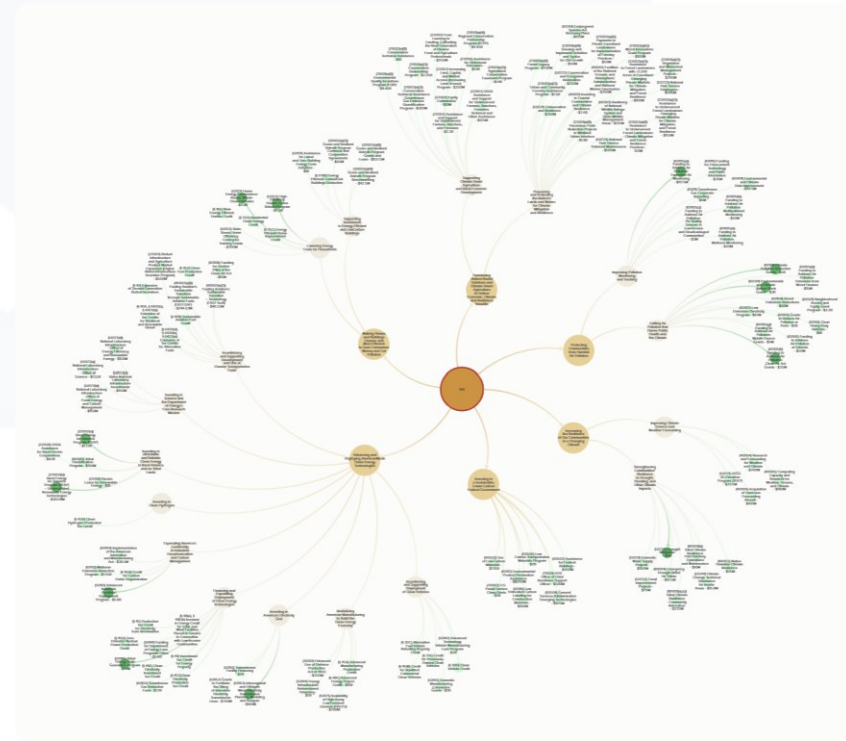


Magnitude of Funding

**Infrastructure Investments and Jobs Act
(IIJA)**



**Inflation Reduction Act
(IRA)**





CLIMATE PROGRAM PORTAL

DASHBOARDS TOOLS ANALYSIS COLLABORATE 

Opportunities

Outcomes

OPPORTUNITIES DASHBOARD

A deep dive on the implementation of IIJA and IRA

[Help](#) | [Methodology](#)



Sectors



CLIMATE PROGRAM PORTAL

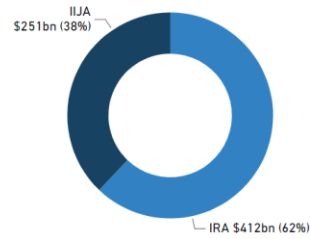
\$663,623,291,289
Funding

179
New Programs

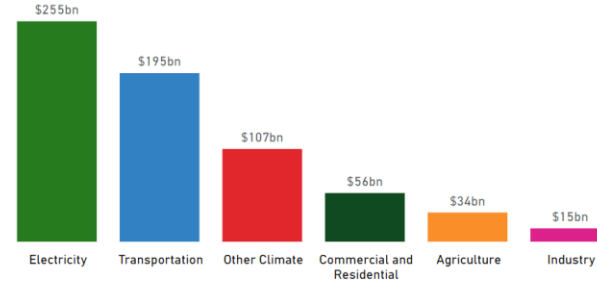
114
Existing Programs

83%
Avg Federal Cost Share

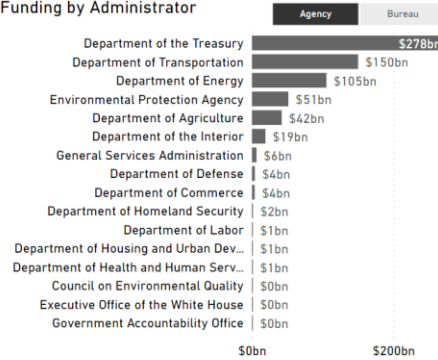
Share of Funding by Law



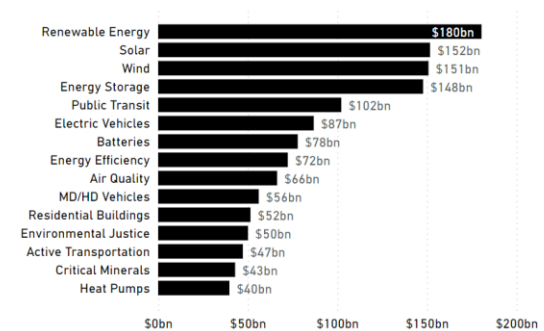
Funding by Sector



Funding by Administrator



Funding by Tag

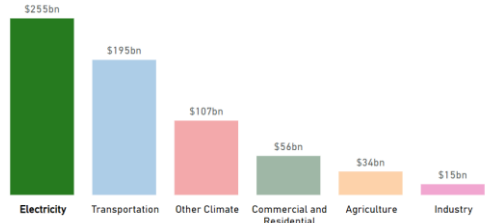


Opportunities
A deep dive on the implementation of IIJA and IRA

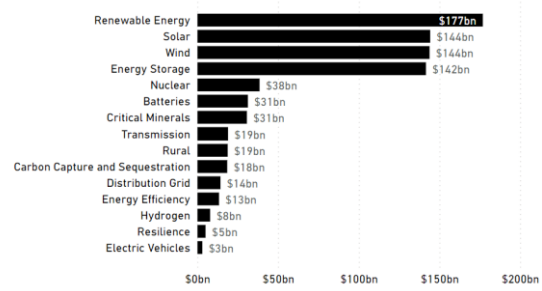


Electricity

Funding by Sector

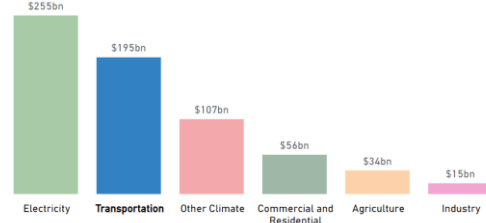


Funding by Tag

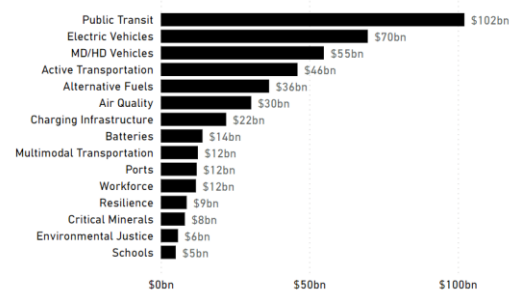


Transportation

Funding by Sector

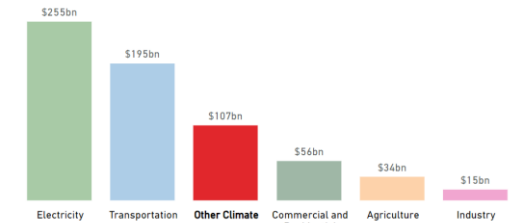


Funding by Tag

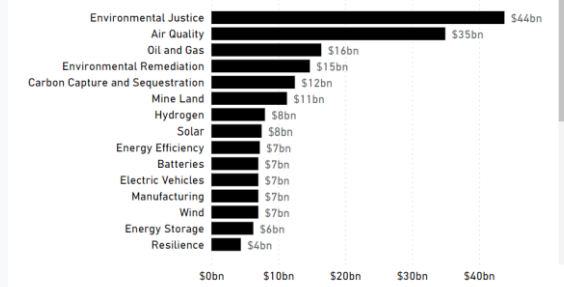


Other Climate

Funding by Sector

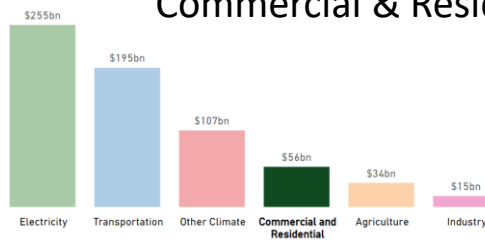


Funding by Tag

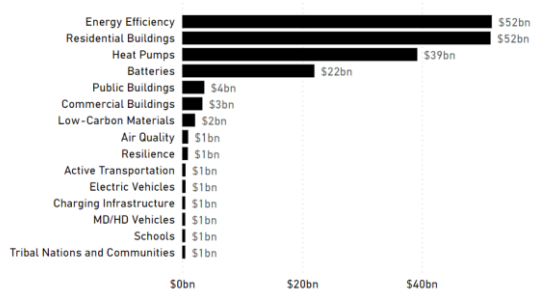


Commercial & Residential

Funding by Sector

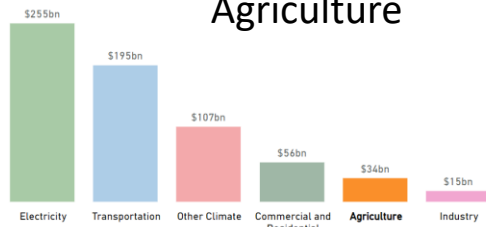


Funding by Tag

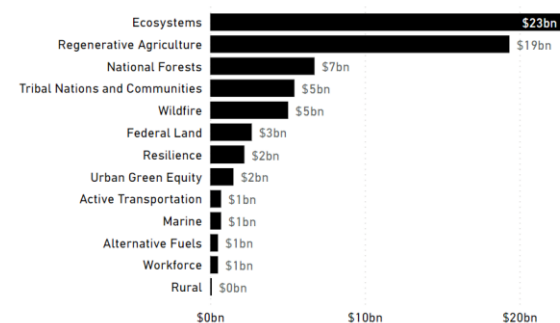


Agriculture

Funding by Sector

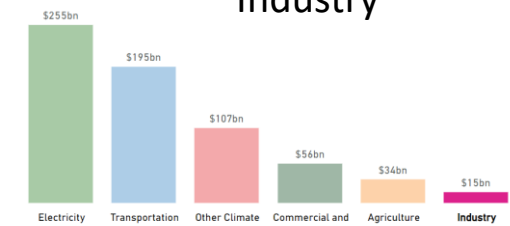


Funding by Tag

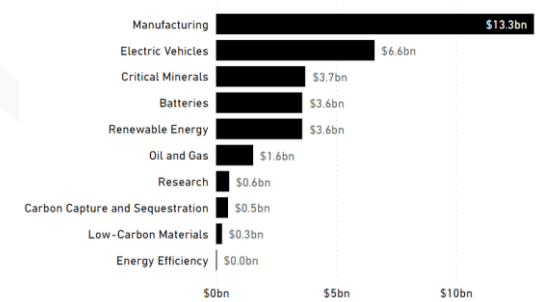


Industry

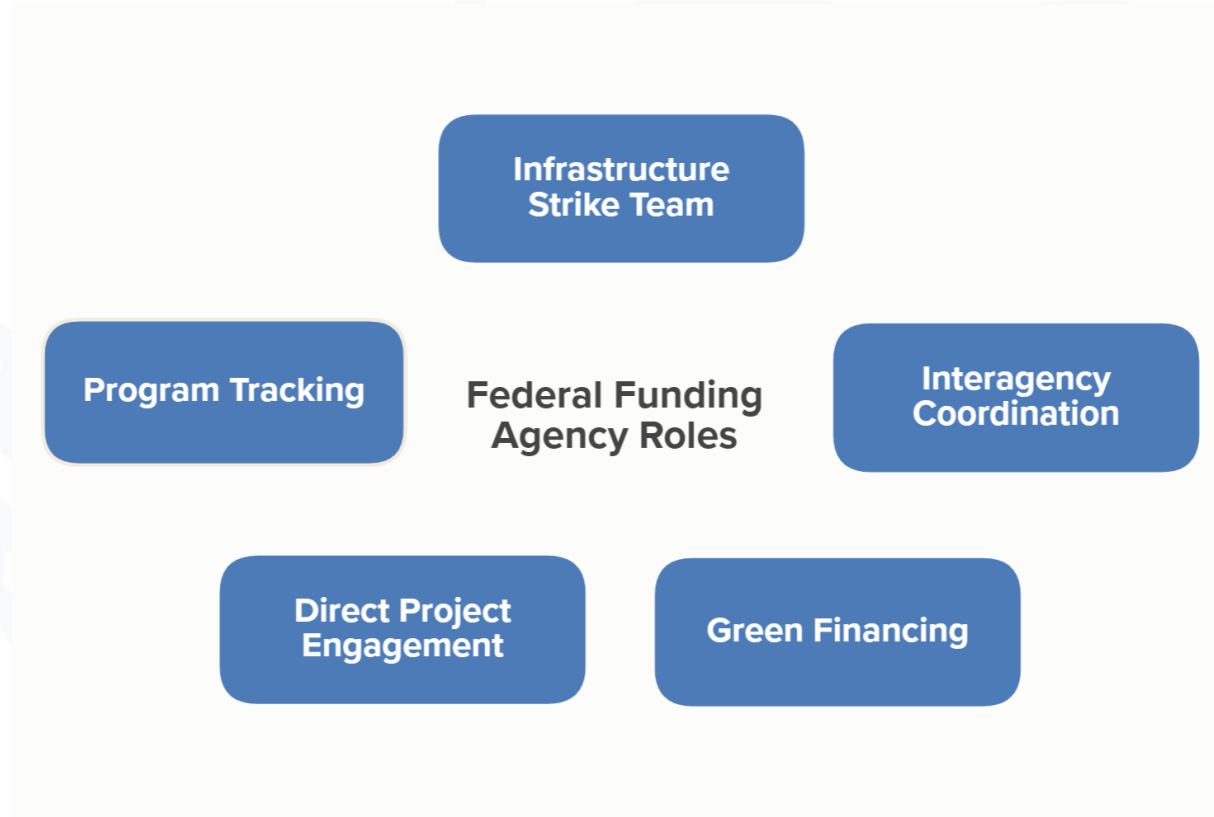
Funding by Sector



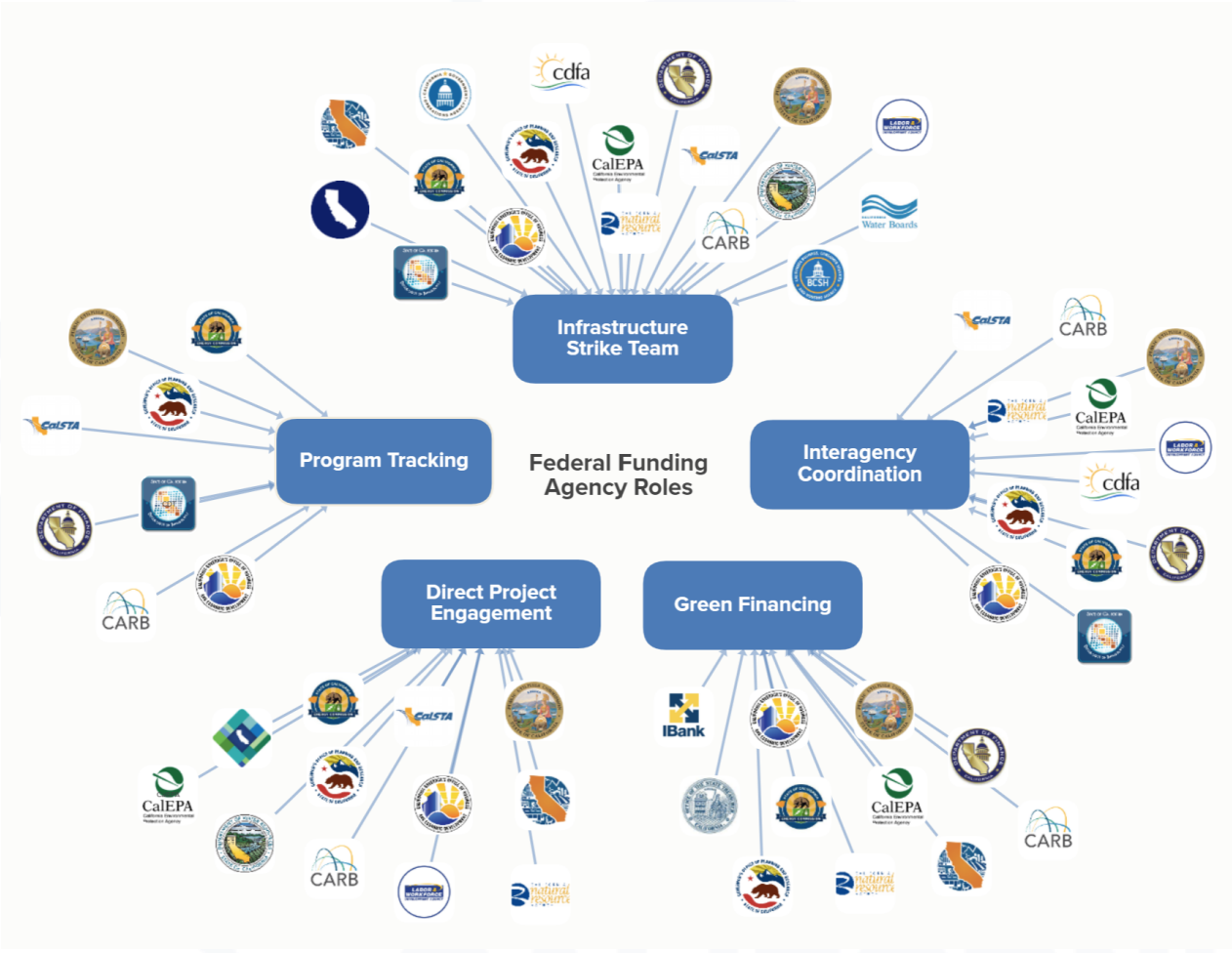
Funding by Tag



State Efforts – Who's Doing What?



State Efforts – Who's Doing What?



It's not too late to get involved!



CLIMATE PROGRAM PORTAL

\$21bn
Funding Awarded

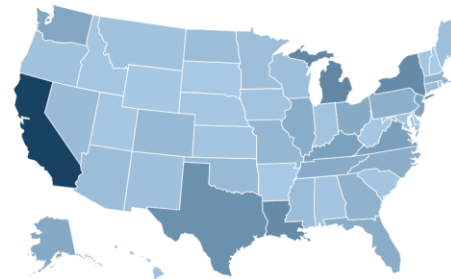
43
Programs With Awarded Funding

52
Awards

2,305
Projects

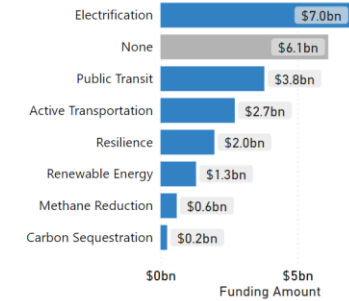
Funding Awarded by State

Total Per Capita \$0.03bn \$2.4bn

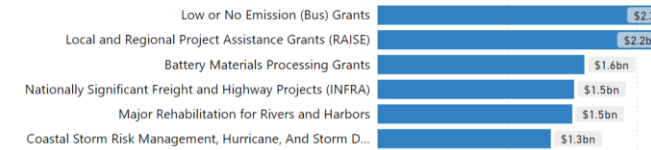


Funding Awarded by Climate Elements

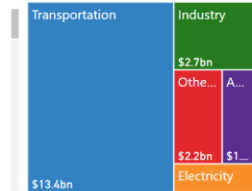
Projects can address multiple climate elements in which case the entire project funding is counted for each element.



Funding Awarded by Program



Funding Awarded by Sector



Outcomes

Tracking awarded funding and actions from states to implement formula programs

Funding Breakdown

● Awarded ● Available ● Allocated ● Remaining



How to Learn More

- Atlas Public Policy – [Climate Program Portal Dashboards](#)
- Governor's Office of Business and Economic Development – [Federal Funding Opportunities](#)
- Governor's Office of Planning and Research – [Federal Grants Portal](#)
- White House [IJA Guidebook](#) & [IRA Guidebook](#)



ONLINE | AUGUST 7 – 11, 2023



INVESTING IN AMERICA CLIMATE ACTION FUNDING FAIR

U.S. Environmental Protection Agency

SCHEDULE

- **Session 1:** Electric Power | *August 7 at 2pm ET*
- **Session 2:** Agriculture and Working Lands | *August 8 at 12pm ET*
- **Session 3:** Tribal Programs | *August 8 at 3pm ET*
- **Session 4:** Transportation | *August 9 at 3pm ET*
- **Session 5:** Buildings | *August 10 at 2pm ET*
- **Session 6:** Industrial and Waste | *August 11 at 12pm ET*

REGISTRATION



The Climate Pollution Reduction Grants (CPRG) program provides grants to states, local governments, tribes and territories to develop and implement plans for reducing greenhouse gas emissions and other harmful air pollution. Join EPA and representatives from other federal agencies to learn about opportunities for leveraging and braiding complementary funding incentives.

<https://www.epa.gov/inflation-reduction-act/investing-america-climate-action-funding-fair>

An Overview of EPA's CPRG Program

- Provides grants to states, local governments, tribes, and territories to develop and implement plans for reducing greenhouse gas emissions and other harmful air pollution.
- This two-phase grant program provides \$250 million for noncompetitive planning grants, and \$4.6 billion for competitive implementation grants.

<https://www.epa.gov/inflation-reduction-act/climate-pollution-reduction-grants>

California's CRPG Workplan

Outlines how to develop three deliverables over four years

Priority Climate Action Plan (due Mar. 2024)

- Actions included are eligible for \$4.6B
- CA sees outreach & coordination as a priority

Comprehensive Climate Action Plan (due mid-2025)

- Larger list of actions, more analysis required

Status Report (due mid-2027)

- Update on implementation
- Overlap with 2027 Scoping Plan Update
- Must include next steps

More on California's workplan under the CPRG Program can be found at: <https://ww2.arb.ca.gov/our-work/programs/us-epas-climate-pollution-reduction-grant-program>

California's CRPG Workplan

Includes core elements across CPRG deliverables

- Coordination with State and local entities and tribal nations
- Synthesis of existing climate plans and reports
- GHG inventories
- GHG projections
- GHG targets
- Climate actions
- Quantified GHG reductions of actions
- Benefits analysis
- Benefits analysis for low-income and disadvantaged communities
- Review of authority to implement actions
- Coordination with other federal funding
- Workforce analysis

Outreach and Coordination Partners

- California CPRG Task Force
- Metropolitan statistical areas, counties, and cities
- Air districts
- Tribal nations
- Low-income and disadvantaged communities
- Private sector stakeholders
- Public

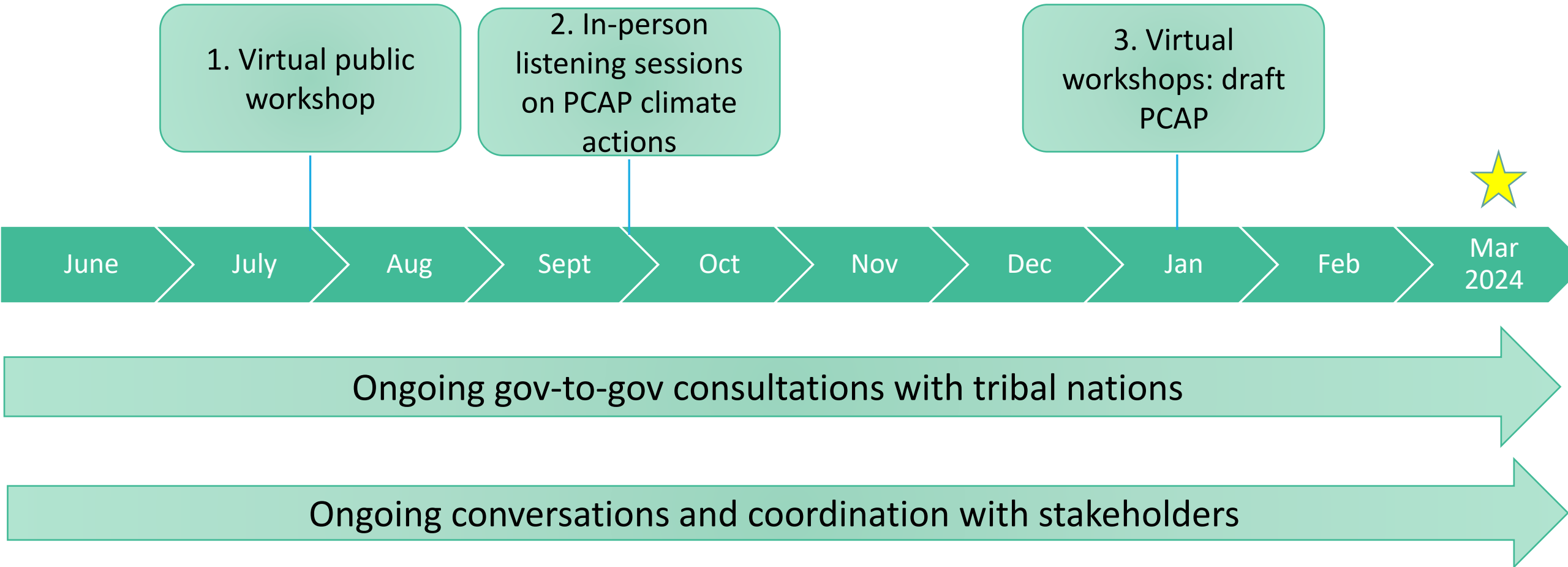
California's CPRG Task Force

An integrated government approach



California's Next Steps in the CPRG Process

Outreach and coordination for the Priority Climate Action Plan



Presentations from State Agencies

Climate plans that will inform California's CPRG deliverables

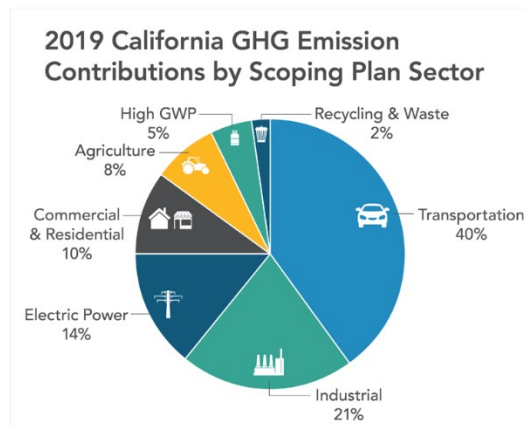
- California Air Resources Board
- California Department of Food and Agriculture
- California Natural Resources Agency
- California Energy Commission
- California Public Utilities Commission
- California Volunteers, Office of the Governor
- California Department of General Services

California's Climate Policy Framework



GHG Targets & Goals

Legislation & Executive Orders: Total GHGs (AB 32/SB 32) or sector targets (SB 1383/SB 100), etc.



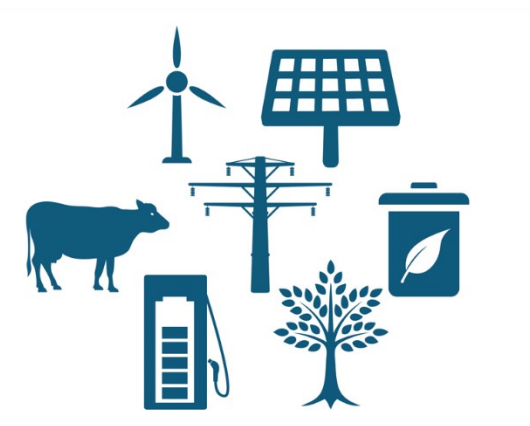
Scoping Plan

Actionable plan across all sectors



Action

Regulations & Incentives: Advanced Clean Cars, climate change investments, etc.

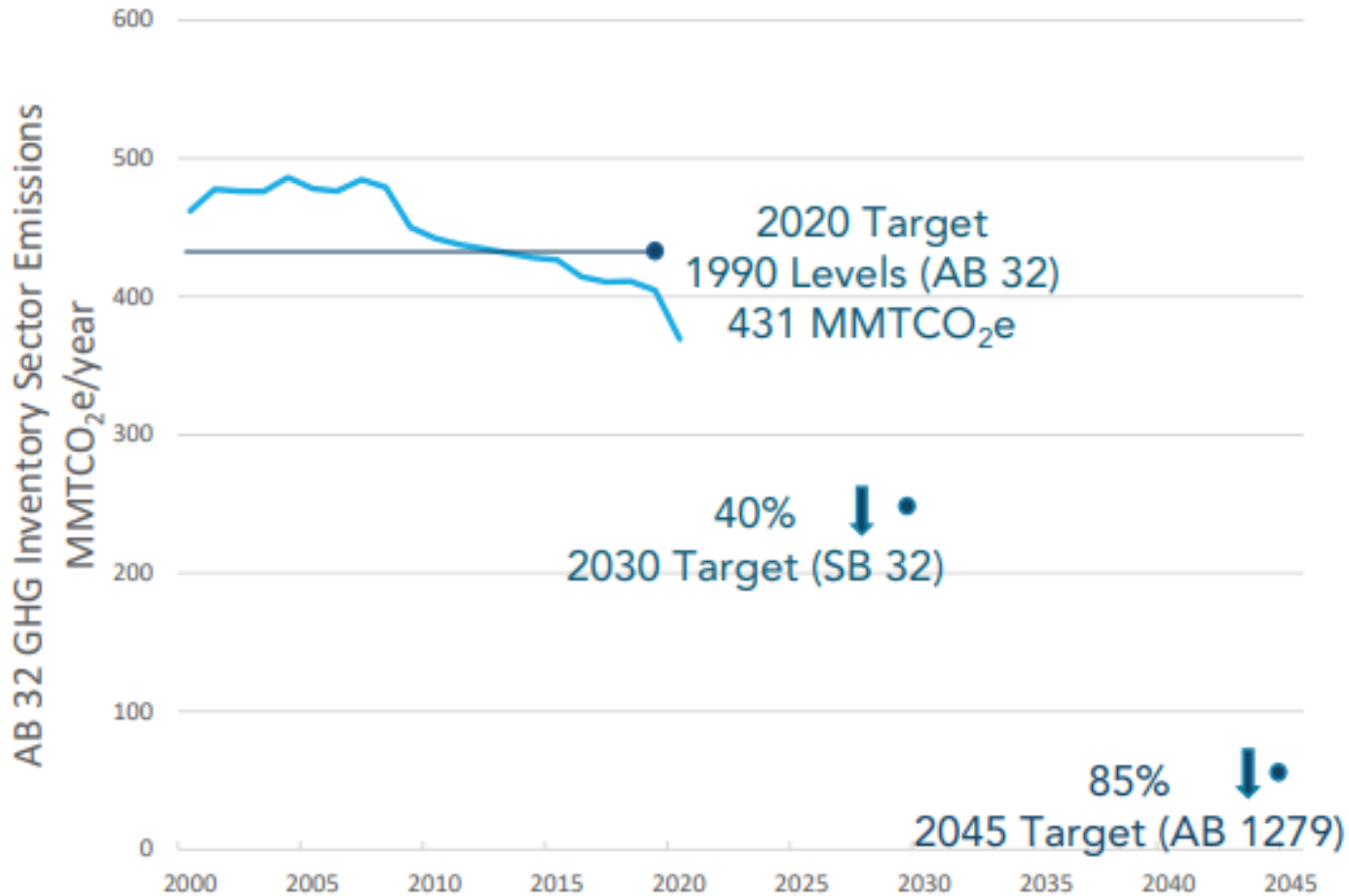


Projects

Examples: Zero-emission trucks, energy infrastructure and renewables, compost facilities, digesters, etc.

2022 Scoping Plan Update

CA's latest plan to achieve statewide climate targets



ACHIEVING
CARBON
NEUTRALITY
BY **2045**

GHGs included in statute: Carbon dioxide (CO₂), Methane (CH₄), Nitrous oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulfur hexafluoride (SF₆), Nitrogen trifluoride (NF₃).

2022 Scoping Plan Summary



Carbon neutrality by 2045, deploy a broad portfolio of existing and emerging fossil fuel alternatives and clean technologies, and align with statutes and Executive Orders



Land management activities that prioritize restoration and enhancement of ecosystem functions to improve resilience to climate change impacts, including more stable carbon stocks

Ambitious Action Delivers Huge Benefits

Unprecedented Deployment of Clean Technology and Nature-Based Climate Solutions



37x total on-road ZEVs



6x electric appliances in residences



1700x hydrogen supply



4x installed wind/solar generation capacity



> 2.5 Million acres of NWL climate action per year

Significant GHG Reductions



94% decrease in liquid petroleum fuel demand



91% decrease in fossil gas used in buildings



66% decrease in methane emissions from agriculture



10% reduction in wildfire emissions

In 2045 relative to 2022

Air Quality and Health Benefits through Fossil Fuel and Forest Fire Reduction



\$200 Billion in health cost savings from decreased fuel combustion



\$3.1 Billion in Health Cost Savings from Drop in Wildfire Smoke Pollution



Economic Metrics



Social cost of carbon (avoided economic damages) of \$6.5 to 23.9 billion in 2045

\$22 Billion in direct costs in 2045 for AB 32 climate action



\$6.5 Billion per year in direct costs for NWL climate action

California economy and jobs grow through 2045

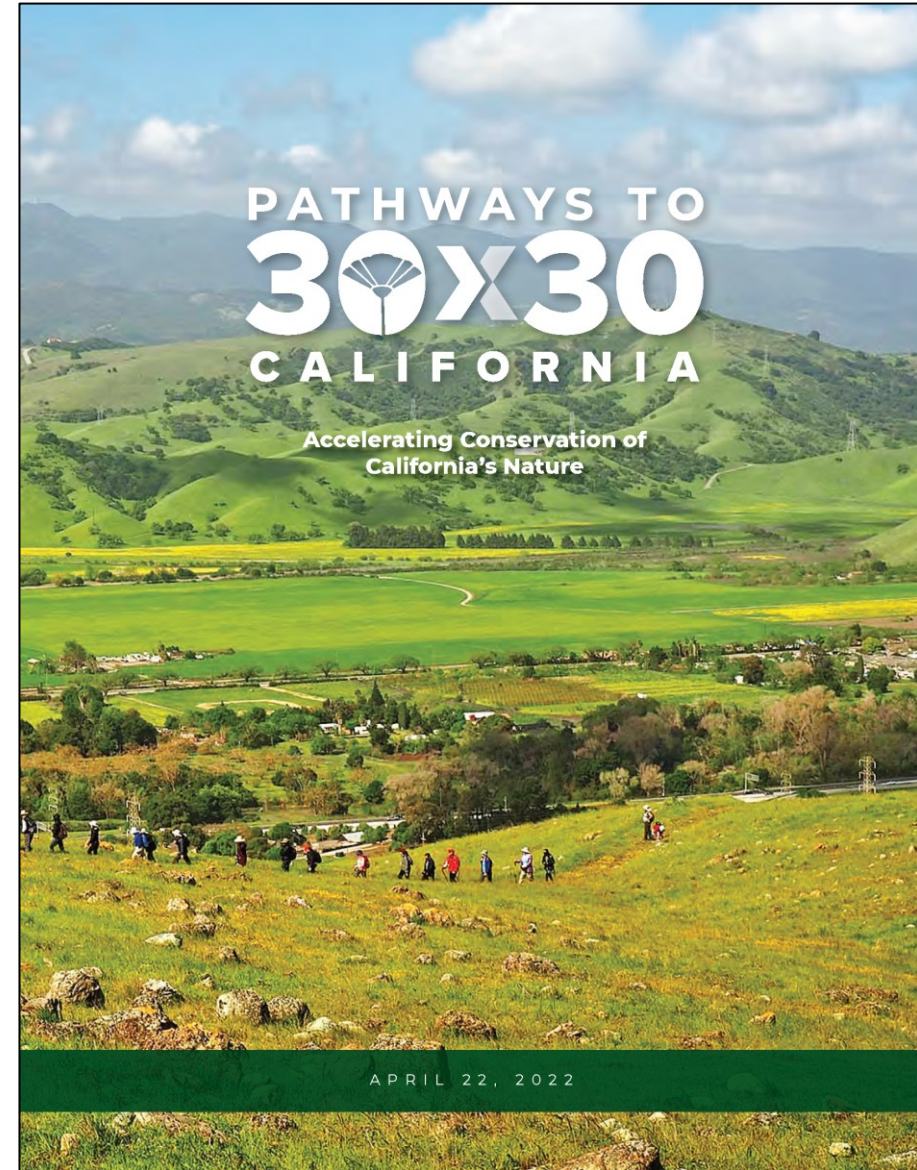
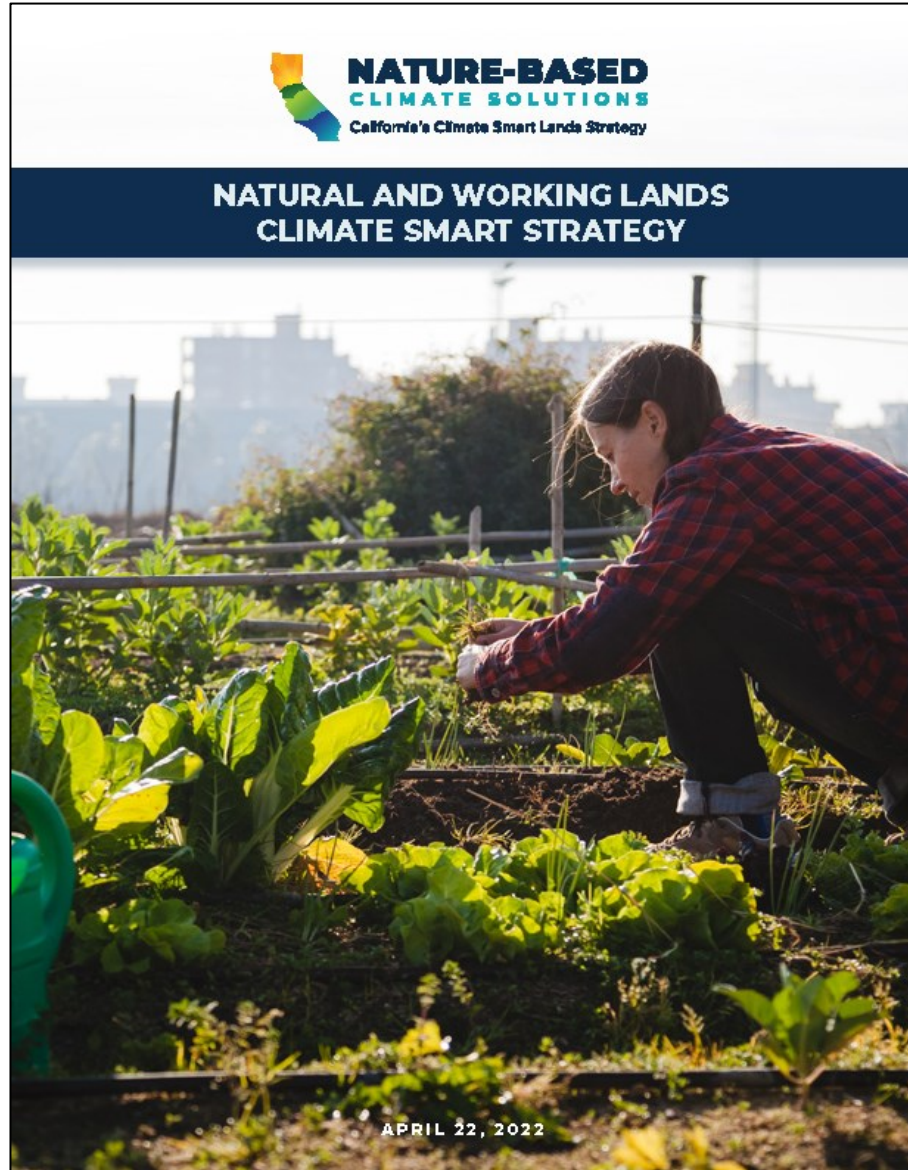


Scoping Plan Scenario has negligible impact on both jobs and economy

Uplifting Equity

- Climate Vulnerability Metric and economic evaluation show low income and communities of color will face both disparate climate impacts and disparate costs of climate mitigation
- Over 5 dozen EJ Advisory Committee Recommendations included in the Plan
- Plan identifies initiation of multi-agency discussion to systematically evaluate and plan for a transition for the demand and supply reduction of petroleum fuels that is equitable
- Ensure accessibility to clean technology and transition to clean energy does not further exacerbate existing health and opportunity gaps

EXECUTIVE ORDER ON NATURE-BASED SOLUTIONS – EO N-82-20



CALIFORNIA'S NATURAL AND WORKING LANDS



Forest



Shrubland/
Chaparral



Grasslands



Wetlands



Croplands



Sparsely Vegetated Lands



Seagrasses & Seaweeds



Developed Lands

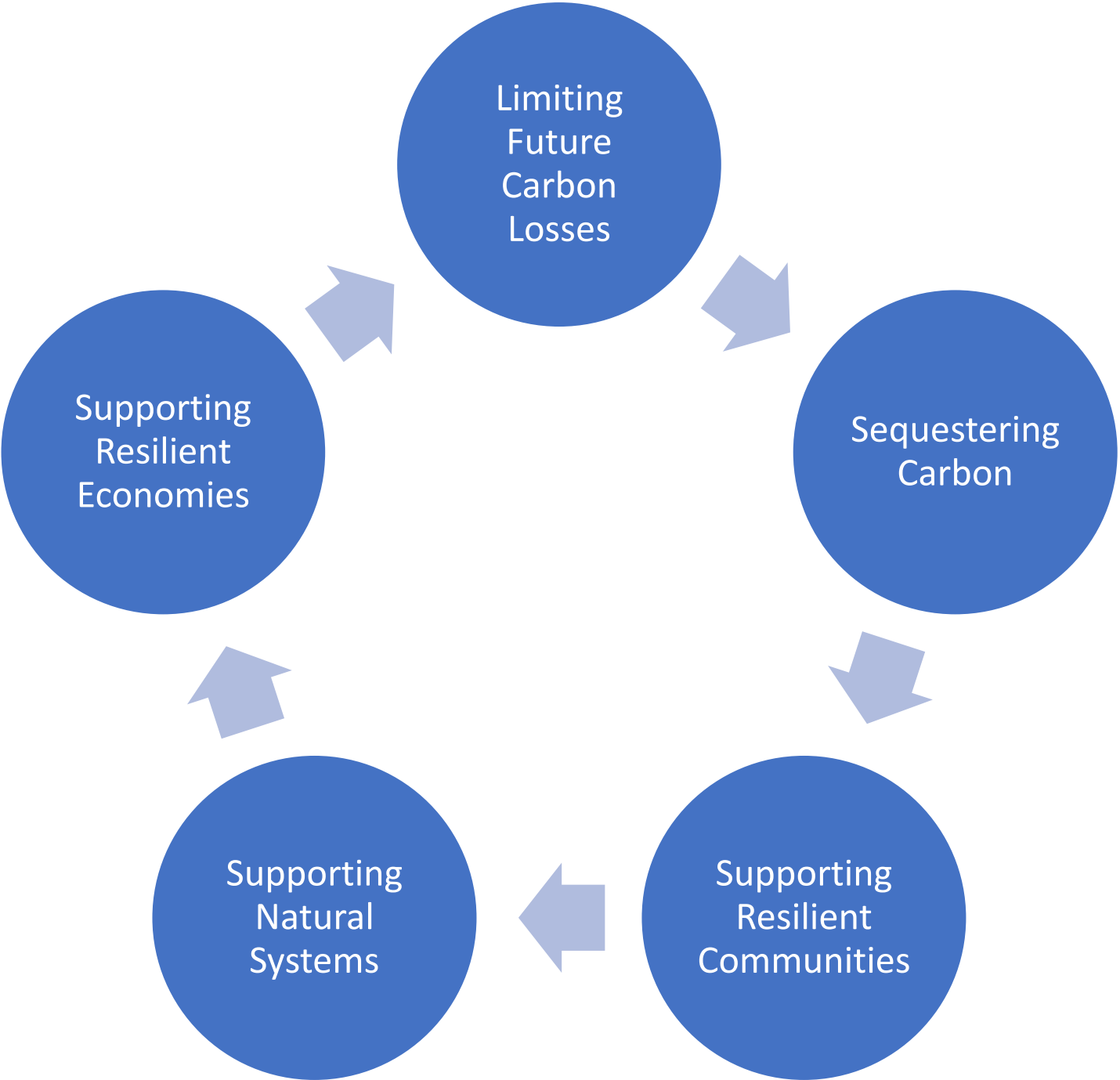
SUMMARY OF STATE ACTIONS

Summarizes existing efforts underway to drive climate smart land management in California:



- Legislative Directives
- Stewardship of State-Owned Lands
- Strategies and Plans
- Grant Funding
- Partnerships
- Science, Research, Data, Analysis
- Policies and Regulations
- Outreach, Education, Capacity and Technical Support
- Leveraging Funding and Finance
- Market Mechanisms
- Equity
- Tracking Action and Measuring Outcomes

PRIORITY APPROACHES



The NWL Strategy

describes the climate action potential

for each of California's natural and working landscapes.

PRIORITY NATURE-BASED CLIMATE SOLUTIONS

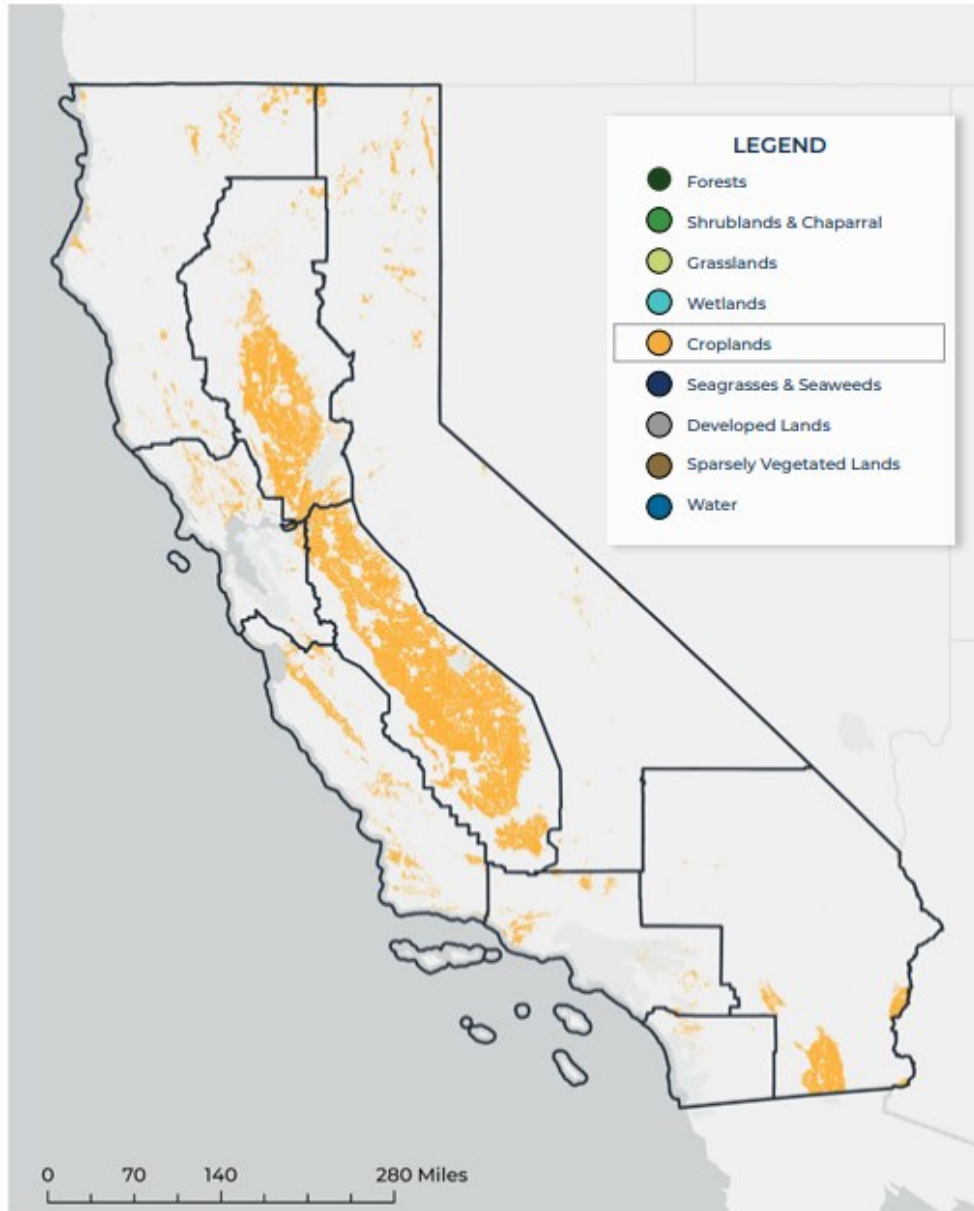
- A. Scale up soil health practices for carbon storage, greenhouse gas emission reduction from soils, climate resiliency, soil water retention, improved water and air quality, and more, while supporting socially disadvantaged farmers. Practices include, but aren't limited to cover cropping; retention of crop residue; production and application of organic amendments, such as compost and biochar; planting of hedgerows; grass filter strips; low or no-till; integrated pest management that utilizes natural pest-predator dynamics and supports biodiversity above and below ground; and others.
- B. Protect at-risk agricultural lands from development through conservation easements, Williamson Act contracts, and agricultural zoning.
- C. Increase water and nutrient use efficiency, including through installation of climate smart irrigation systems.
- D. Increase managed groundwater recharge on working croplands that capture rain and storm runoff and redirect water during periods of extended high flows to allow water to sink into aquifers in a manner that does not exacerbate water quality issues and ensures diversions are protective of native fish and wildlife.
- E. Repurpose cropland retired or fallowed due to lack of water supply for environmental, cultural and societal benefits, such as sequestering carbon, capturing floodwater, recharging aquifers, reducing dust, and providing habitat.
- F. Enhance circular economies for organic waste utilization which prioritize ecosystem and biological health, such as use as animal feed, compost creation and utilization, manure markets, whole orchard recycling and mulching.
- G. Facilitate planting, harvesting, and sustaining culturally and historically significant food crops by California Native American tribes.
- H. Reactivate flood plains on working croplands, including rice fields to improve flood management and aquifer recharge and enhance biodiversity and habitat.
- I. Scale up the use of integrated pest management; advance safer, more sustainable pest management practices and provide tools to support the accelerated transition away from harmful pesticides.

PRIORITY APPROACHES

The NWL Strategy

lists priority actions to deliver on our climate change goals

on each of California's natural and working landscapes.



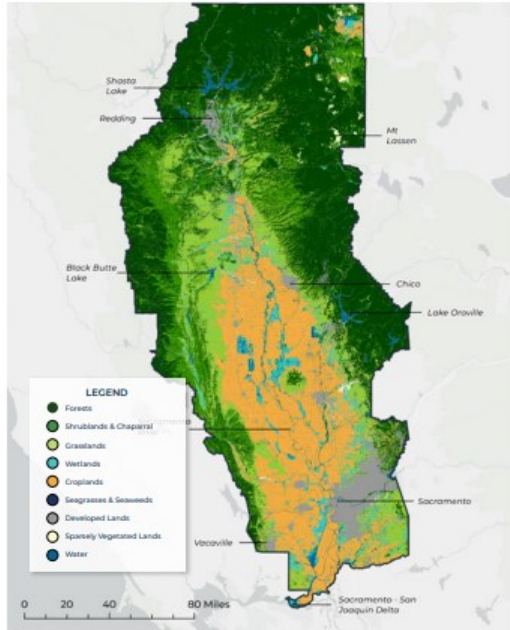
PRIORITY APPROACHES

The NWL Strategy

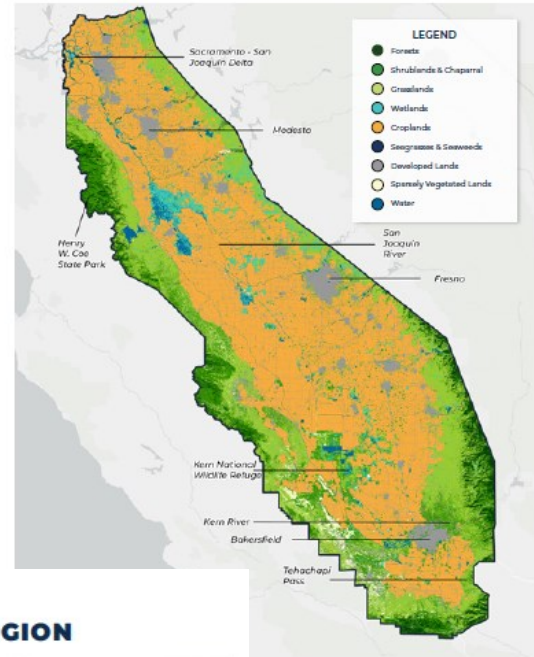
identifies where each natural and working landscape can be found

across California's 105 million acres.

**REGIONAL LAND COVER MAP
SACRAMENTO VALLEY REGION**



**REGIONAL LAND COVER MAP
SAN JOAQUIN VALLEY REGION**



**REGIONAL LAND COVER MAP
CENTRAL COAST REGION**



REGIONAL SNAPSHOTS

Explores opportunities for regional climate smart land management.



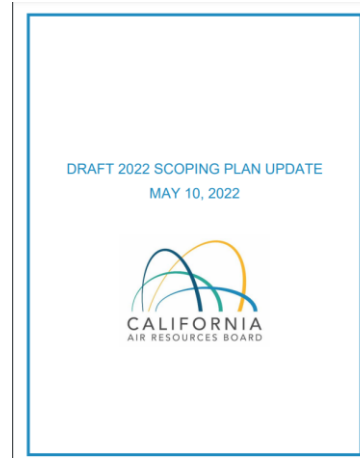
TRACKING ACTION, MEASURING OUTCOMES

The NWL Strategy identifies options to track nature-based climate action and measure progress.

PLANS IN ACTION



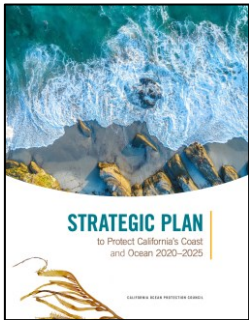
Adaptation



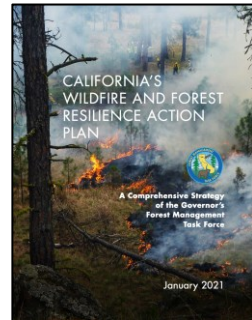
Mitigation



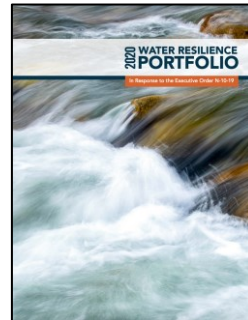
Plans Including Nature-Based Climate Solutions



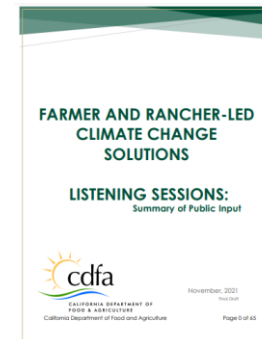
OPC Strategic Plan



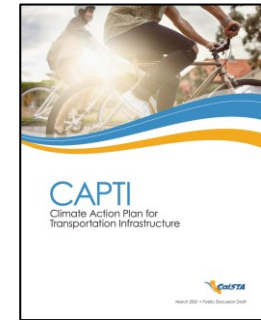
Wildfire/Forest Resilience Action Plan



Water Resilience Portfolio



Farmer/Rancher Led Climate Change Solutions



Climate Action for Transportation Infrastructure

And many more...



California Energy Commission

Title: Opportunities with Climate Pollution Reduction Grants

Presenter: Name, Title

Date: August 3, 2023



Key Climate Action Opportunities

1. Residential and Commercial Buildings

- Reclamation education, incentives and enforcement
- Incentives to transition to low-GWP refrigerants
- Safety testing of low-GWP refrigerants
- Alternatives to diesel backup generators in tribal and rural areas

2. Industrial Decarbonization

- Support Industrial Decarbonization and Improvement of Grid Operations (INDIGO), Food Production Investment Program (FPIP)
- Develop and deploy high temperature heat pumps

3. Embodied Carbon

- Develop tracking and labeling of building materials
- Enact through state procurement and CALGreen standards



Thank You!



CPUC Climate Priorities

Leuwam Tesfai

California Public Utilities Commission

Climate Pollution Reduction Grant Workshop
August 3, 2023



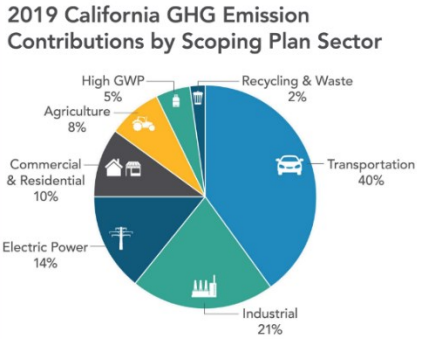
California Public
Utilities Commission

California's Climate Policy Framework



GHG Targets & Goals
Legislation & Executive Orders: Total GHGs (AB 32/SB 32) or sector targets (SB 1383/SB 100), etc.

Legislature



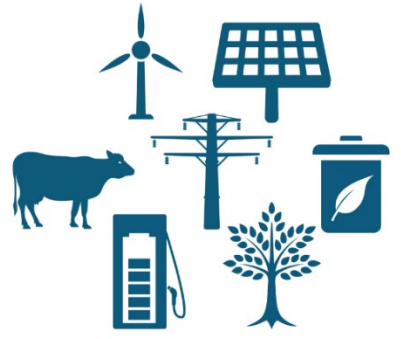
Scoping Plan
 Actionable plan across all sectors

CARB



Action
Regulations & Incentives: Advanced Clean Cars, climate change investments, etc.





CA Public Utilities Commission creates and oversees programs and policy





Projects
Examples: Building compost facilities, digesters, renewables, energy infrastructure, etc.

California's Strategic Planning Guides CPUC GHG Reduction Policies

**in 2045 relative to 2022.*

CARB Goal*	Supporting CPUC Policies and Programs	
 <p>30x total on-road ZEVs</p>	<ul style="list-style-type: none"> Transportation Electrification investments in chargers and other infrastructure 	<p>\$1.5B+ <i>Investments</i></p>
 <p>6x electric appliances in residences</p>	<ul style="list-style-type: none"> Building Initiative for Low-Emissions Development (BUILD), Technology and Equipment for Clean Heating (TECH), and Wildfire and Natural Disaster Resiliency Rebuild (WNDRR) Programs Energy Efficiency 	<p>\$440M+ <i>Subsidies</i></p> <p>\$4.3B</p>
 <p>91% decrease in fossil natural gas used in buildings</p>	<ul style="list-style-type: none"> Ended ratepayer subsidies for line extensions 	<p>\$160M+ <i>Avoided Costs/year</i></p>
 <p>4x installed wind/solar generation capacity</p>	<ul style="list-style-type: none"> Renewable Portfolio Standard (RPS) Clean Energy Programs for Disadvantaged Communities: Solar on Multifamily Affordable Housing (SOMAH), Disadvantaged Community Single-Family Solar Homes (DAC-SASH), Community Solar Green Tariff (CSGT) and Disadvantaged Community Green Tariff (DAC-GT) 	<p>\$600M+ <i>Subsidies</i></p>

CARB Goal		Supporting CPUC Policies and Programs	
	91% decrease in petroleum demand	<ul style="list-style-type: none"> Integrated Resource Planning (IRP) Time-of-Use rate structures & Demand Response 	
	66% decrease in methane emissions from agriculture	<ul style="list-style-type: none"> Biomethane Tariffs & Demonstration Projects 	

Other CPUC Policies and Programs Supporting AB32 & SB100			
	Research & Development	<ul style="list-style-type: none"> Electric Program Investment Charge (EPIC) 	\$3.4B <i>Subsidy to 2030</i>
	California Climate Credit	<ul style="list-style-type: none"> Residential ratepayers' share of the Cap-and-Trade Program delivered as on-bill return twice annually 	\$6.3B+ <i>Dividend</i>
	Incentive Programs	<ul style="list-style-type: none"> Promote microgrids, batteries, and other distributed energy resources 	\$1B+



California Public Utilities Commission

Discussion / Q&A

The CPUC's Energy Division is hiring! Join us for an upcoming open house on August 25th

<https://www.cpuc.ca.gov/about-cpuc/divisions/energy-division/energy-division-recruiting>

EnergyDivisionRecruiting@cpuc.ca.gov



CALIFORNIA VOLUNTEERS

Office of the Governor

“No state has mobilized and organized citizen climate action at scale. California's Climate Action Corps not only aims to do that but to serve as inspiration for similar action across the country and globe.”

— Governor Gavin Newsom



Vision and Mission

Vision:

Every Californian contributes to improving community and enhancing our quality of life through service and volunteerism.

Mission:

Cultivate the opportunities, infrastructure, and culture necessary to empower every Californian to positively impact our greatest challenges.



Pyramid of Civic Engagement

Serve

Fellows dedicate time to service

- #CaliforniansForAll College Corps
- California Climate Action Corps
- AmeriCorps
- #CaliforniansForAll Youth Job Corps

Volunteer

Californians sign up for an event

- Support events, nonprofits, and days of action

Take Action

Californians take individual action

- Empowering individuals to act at home or in their communities (e.g., Save Our Water, tutoring/mentoring), Neighbor-to-Neighbor)

Climate Service Across Programs



More than 5,000 service members supporting climate action throughout California



AmeriCorps
California

#CaliforniansForAll

CollegeCorps

#CaliforniansForAll

Youth Jobs Corps



CALIFORNIA CLIMATE
ACTION CORPS



Mission: Empower Californians to take meaningful action to serve and help protect our most vulnerable communities against the harshest impacts of climate change.

Focus Areas: Urban Greening
Organic Waste & Edible Food Recovery
Wildfire Resiliency

State Climate Priorities:



GET SOCIAL WITH US!

Follow, Like, Subscribe

@CaliforniaVolunteers



@CalVolunteers



Questions and Feedback Session

- Public Comment Instructions



Raise Hand

1. Use the “Raise Hand” function in the toolbar at bottom of your screen.
 2. When staff call your name, please “Unmute” yourself and proceed to introduce yourself
 3. Commenters will be given 3 minutes, no ceding time to others
- Submit written feedback online through August 24th at 11:59 p.m. Pacific Time
 - Link to submit written feedback available at Cap-and-Trade Meetings and Workshops webpage
 - <https://ww2.arb.ca.gov/us-epas-climate-pollution-reduction-grant-program-meetings-workshops>

Next Steps

- Submit written feedback online through August 24th 2023 at 11:59 p.m.
- Link to submit written feedback available at CPRG Meetings and Workshops webpage
 - <https://ww2.arb.ca.gov/us-epas-climate-pollution-reduction-grant-program-meetings-workshops>