



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 10

Contract for Support of Grants Data Management Systems

**Board of Directors Meeting
September 21, 2022**

**Alona Davis, Air Quality Manager
Strategic Incentives Division**

adavis@baaqmd.gov

Outcome



Action item *for the Board of Directors to consider:*

Authorizing the Interim Executive Officer/APCO to execute a contract with Trinity Technology Group, Inc. for a total cost not to exceed \$360,000 and a term of up to four years at the Air District's discretion.

Outline



- Moyer Grants System
- Woodsmoke Reduction Grants System
- Actions Requested

Moyer Grants System



- Launched in 2008
- Carl Moyer and Goods Movement Data
- Supports Online Application Submittal
- Work needed for ongoing updates and maintenance



Woodsmoke Reduction Grants System



- Launched in 2016
- Woodsmoke Reduction Program data
- Supports Online Application Submittal
- Work needed to update for upcoming EPA Targeted Airshed Grant Program, and ongoing updates and maintenance



Cost Proposal



Grants Data Management System	Total estimated cost over 4-year term
Woodsmoke Reduction	\$204,000
Moyer	\$156,000
TOTAL	\$360,000

Actions Requested



Action item *for the Board of Directors to consider:*

Authorizing the Interim Executive Officer/APCO to execute a contract with Trinity Technology Group, Inc. for a total cost not to exceed \$360,000 and a term of up to four years at the Air District's discretion.



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 11

Authorization to Execute Contract Amendments for Production System Office

**Board of Directors
September 21, 2022**

Blair L Adams
Information System Officer
badams@baaqmd.gov

Anja Page
Assistant Manager
apage@baaqmd.gov

Joy Chen
Assistant Manager
joychen@baaqmd.gov

Outcome



A 10-minute status update and recommendation to approve contract amendments presented by:
Blair L Adams, Information Systems Officer
Joy Chen, Software Development Assistant Manager
Anja Page, Online Services Assistant Manager

Outline



Software Development Status

- Completed and remaining modules

Key Results

- Software development status
- Website traffic

Forecasts

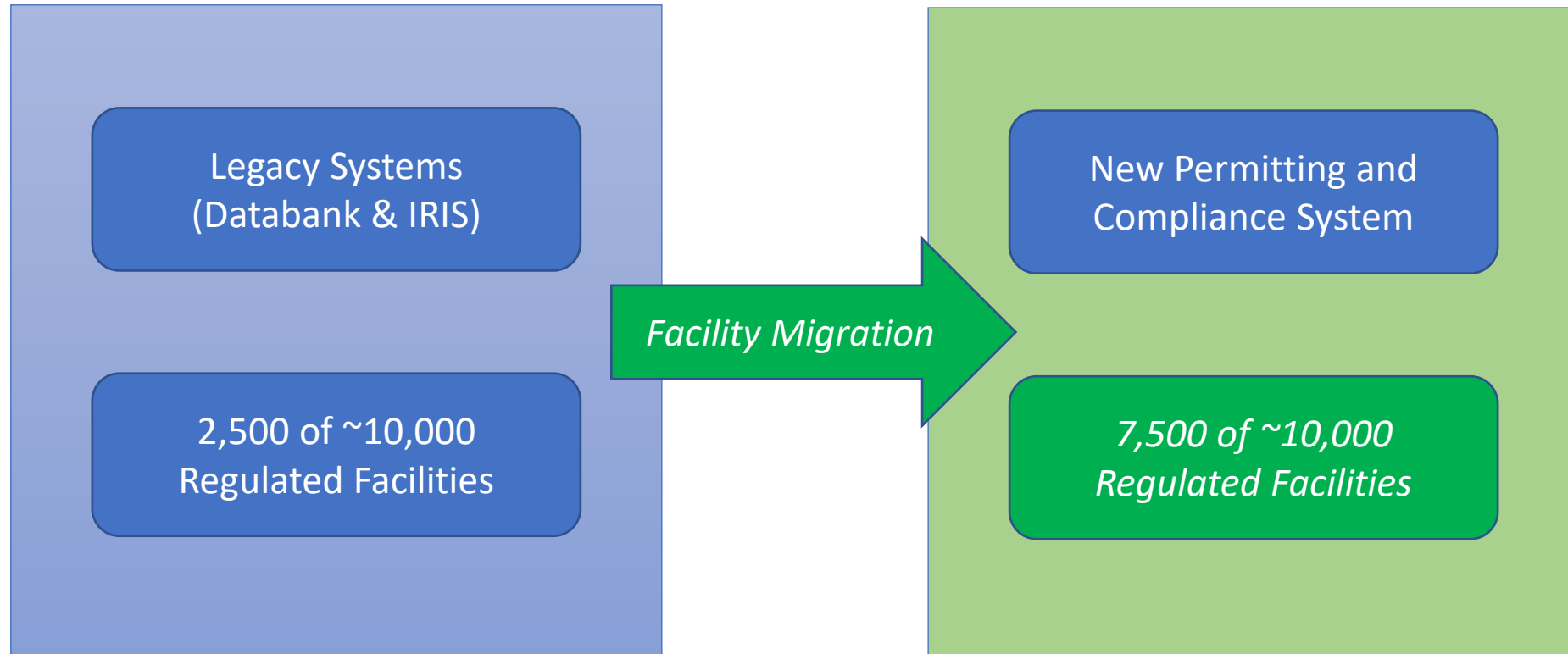
- Schedule and budget

Requested Action



Request Board of Directors authorize the Interim Executive Officer/APCO to execute contract amendments, in an amount not to exceed \$2,323,935.

Objective: Legacy System Deprecation



Permitting and Compliance System: Modules in Production



Gas Stations	Dry Cleaners	Autobody Shops	Charbroilers
Mobile Refinishing	Graphic Arts	Small Boilers	Agricultural Diesel Engines
Internal Combustion Engines	Public Complaints	Wood Smoke	Grants
Asbestos	Facility Inspections	General Investigations	Financial System Integration
Payment Reconciliation	Stipulated Abatement Orders	Online Payments (Version 1)	Renewal Fee Update (FYE 2023)

Permitting and Compliance System: Recent Accomplishments



Application Programming Interface	Decoupled Legacy Systems	No Net Increase (Reports)	Notice of Violation (Issuance)
Notice to Comply	Renewal Fee Calculations	Factor-Based Emission Calculations	Emission Train Topology
Compliance Verification	Online Payments (Phase 2)	Enhanced Virus Scanning	Refinery Invoice Enhancements (12-15)
Federal Emission Statements (Refineries)	Unified Invoices and Permits*	Source Modifications	Transfer of Ownership
Radio Telephone Operator (Dispatch)	Area Assignment Enhancements	Facilities Migrated 23% (73% Complete)	

Remaining Permitting Modules



Databank

Device Input
Form Logic

Application
Fee Automation

Emissions
Calculations
(Material Balance)

No Net Increase
(Administrative
Interface)

Condition
Editor

Application
Interface
Enhancements

Remaining Compliance Modules



Ingres Relational Information System (IRIS)

Reports
(IRIS)

Complaint
Investigation

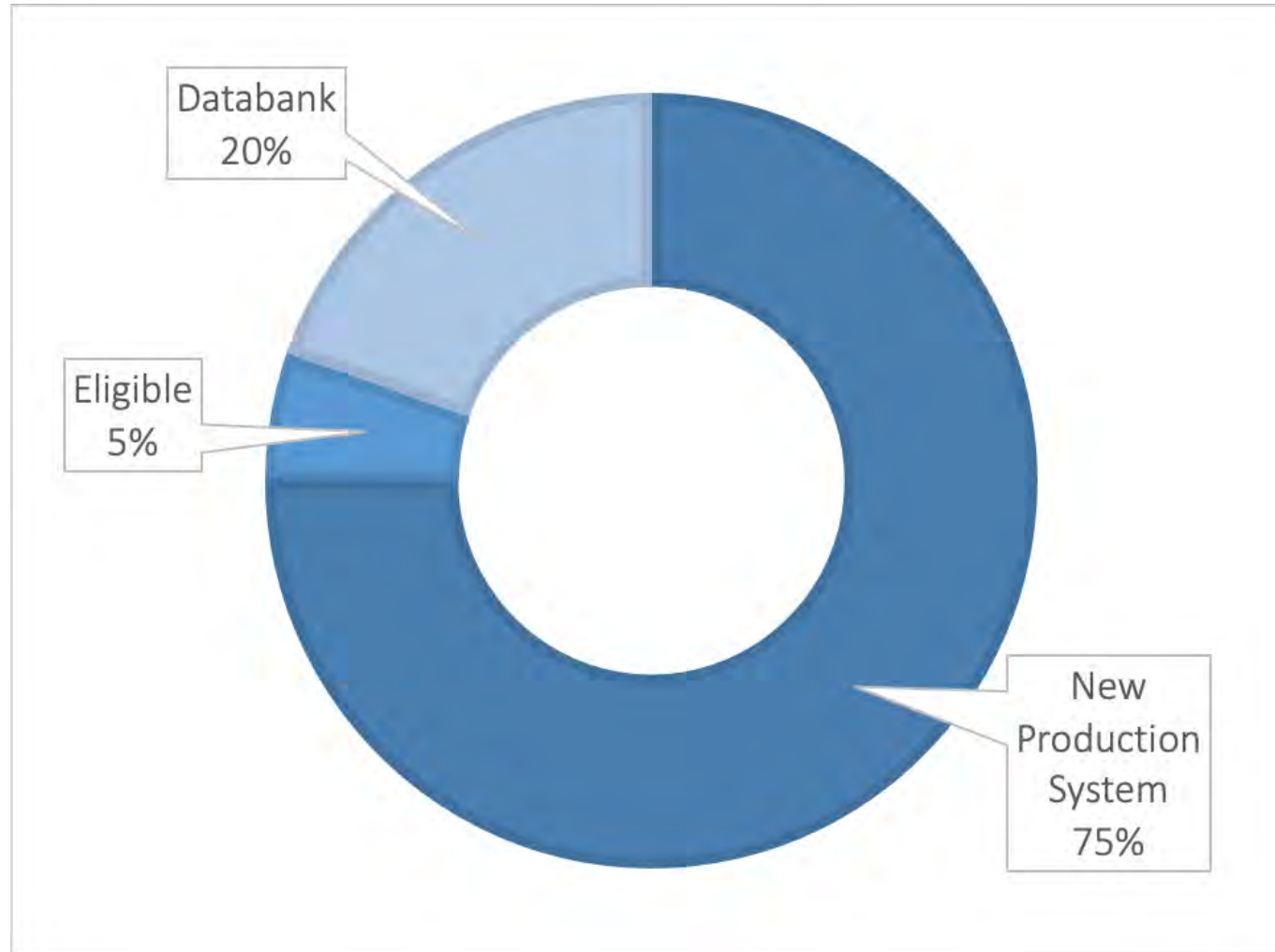
Mutual
Settlement

Reportable
Compliance
Activities (Episodes)

Permit
Applications

Hearing
Board

Facility Migration Status



Web Usage Metrics



Date Range:

6/29/2021

8/29/2022

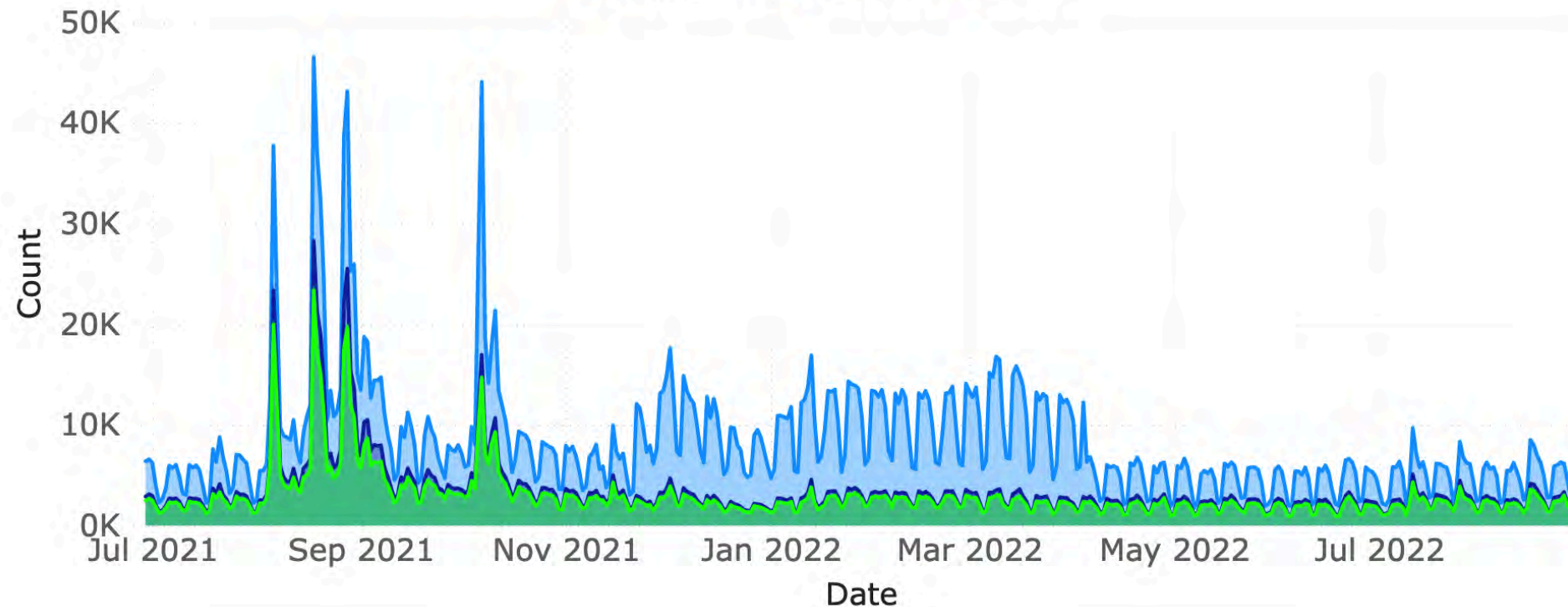
3.54M
Pageviews

1.45M
Sessions

1.23M
Users

District Website Usage

● Pageviews ● Sessions ● Users

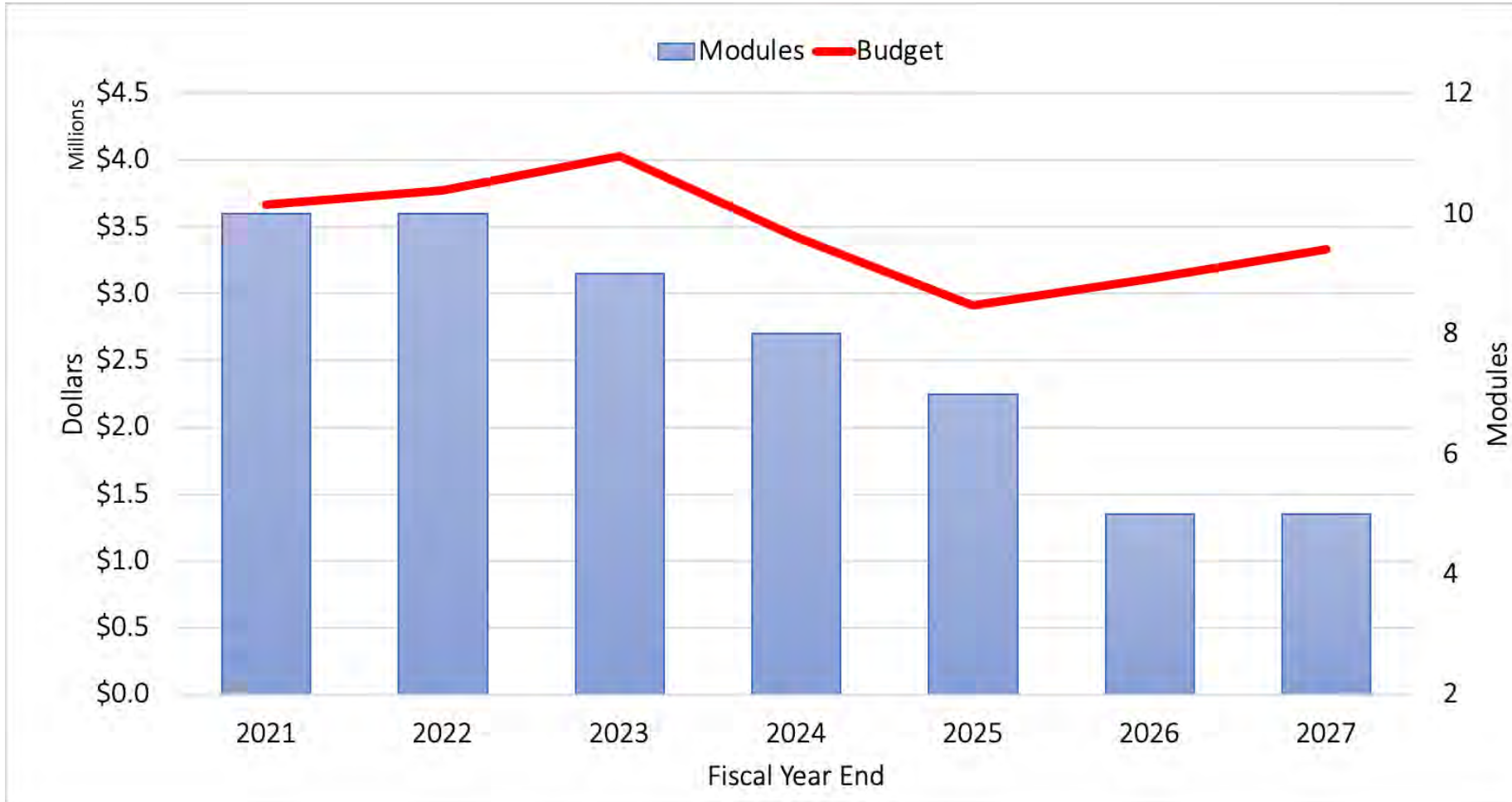


Legacy Transition Roadmap Summary



Description	2022	2023	2024	2025
Digital Twin (Gap Analysis)	🎯			
Parallel Operations (Alpha Release)	🕒	🎯		
Production Operations (Beta Release)		🕒	🎯	
Operations, Maintenance & Productivity Enhancements (Version 2.0 Release)			🕒	🎯

Budget: Recent Actuals and Future Estimated



Feedback Requested/Prompt



Staff recommends the Board of Directors authorize the Interim Executive Officer/APCO to execute contract amendments, in an amount not to exceed \$2,323,935.

Draft 2022 Scoping Plan



RAJINDER SAHOTA

DEPUTY EXECUTIVE OFFICER

AB 32 Climate Change Scoping Plan Statutory Requirements





- Scoping Plan(s) are action plans for CA to meet statewide GHG reduction targets
 - Scoping Plan(s) outline a suite of climate policies to address emissions across all sectors
 - Required to be updated at least every 5 years
 - 2017 SP (most recent) – cost-effective and technologically feasible path to achieve the 2030 target
- Provide direct GHG emissions reductions and air quality benefits
- Minimize emissions “leakage” – increase to non-CA GHG emissions
 - Ensure high-road jobs remain
- Facilitate sub-national and national collaboration
 - Develop exportable programs for partners to adopt
- Support cost-effective and flexible compliance

July 22nd Letter from Governor Newsom




- Increase ambition and action called for in the draft Scoping Plan
- Directed CARB to include the following:
 - 20 GW of offshore wind by 2045
 - Avoid need for new gas plants
 - 3 million climate-ready and climate-friendly homes by 2030/ 7M by 2035
 - 6 million heat pumps statewide by 2030
 - Increase LCFS stringency, accelerate refinery transitions to clean fuels
 - Increase a clean fuels target for aviation
 - Address oil and gas methane leaks near communities
 - Carbon dioxide removal and capture target of 20 MMT in 2030/ 100 MMT in 2045

Overview of the Draft 2022 Scoping Plan

Unprecedented Deployment of Clean Technology

-  30x total on-road ZEVs
-  6x electric appliances in residences
-  60x hydrogen supply
-  4x installed wind/solar generation capacity

Significant GHG Reductions

-  91% decrease in petroleum demand
-  91% decrease in fossil natural gas used in buildings
-  66% decrease in methane emissions from agriculture

In 2045 relative to 2022

Health and Economic Metrics



Social cost of carbon (avoided economic damages) of **\$9.9 billion** in 2045



Health benefits (avoided incidence of health effects) over **\$10 billion**
2045 episodic modeling



9x less impact on state economy than most aggressive alternative in 2045
7x less impact on household income than most aggressive alternative in 2045
2x less direct costs than most aggressive alternative in 2045



1.5x less impact on jobs than most aggressive alternative in 2045

*Reference economy and jobs indicate continued growth from now through 2045

Metrics for Natural and Working Lands



10x increase in forest management



5x increase in climate smart agricultural practices



50% reduction in conversion of sparsely vegetated lands to another land use



10% decrease in annual wildfire emissions

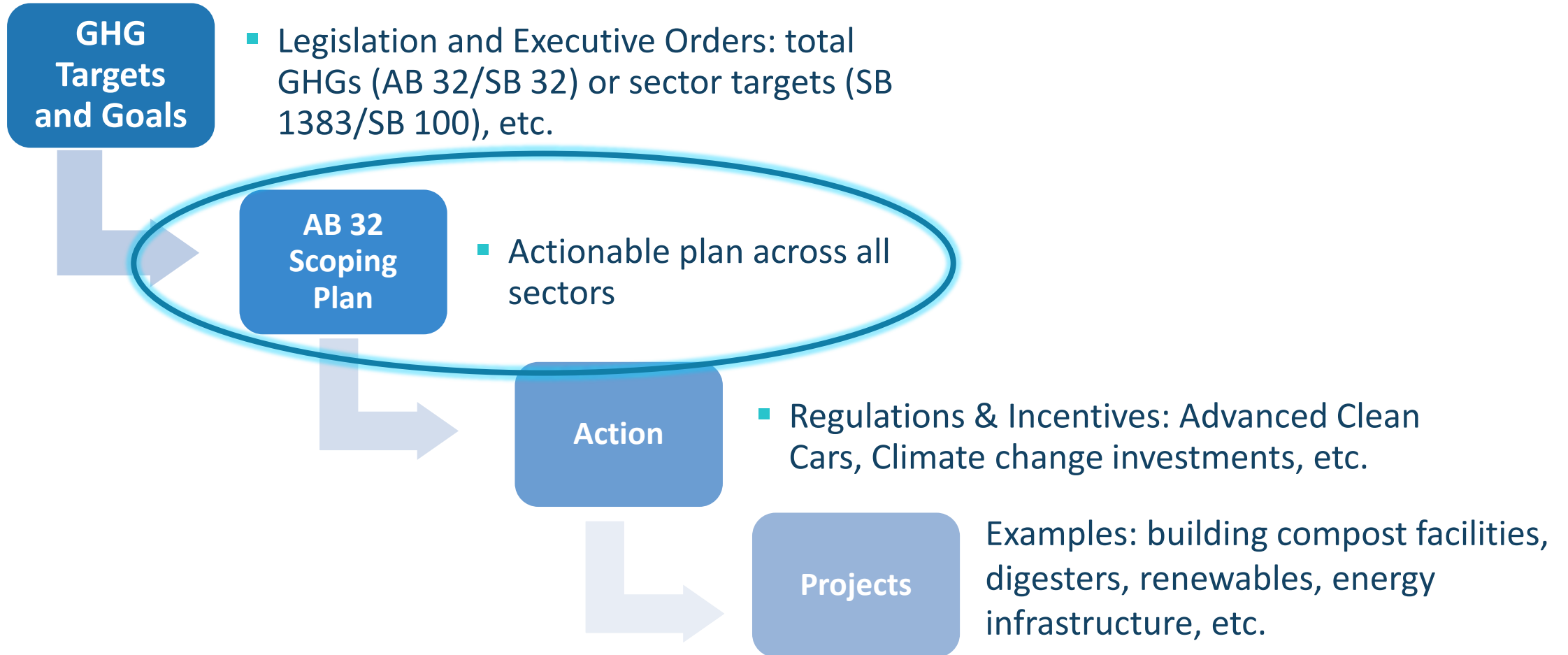


20% increase in urban forest investment

Uplifting Equity

- Drastic reductions in fossil fuel combustion will provide health benefits to overly burdened communities located adjacent to freeways and stationary sources
- Community Vulnerability Metric (CVM)
 - Not all communities face same impacts from climate change
 - Not all communities are equal in resiliency
 - CVM will identify additional social carbon costs at census tract level experienced due to disparate climate impacts (heat, drought, etc.)
 - Assist in identifying where and how to build community resiliency
 - Will be incorporated into the final plan

California's Climate Policy Framework



Multi-State Agency Effort



List is not exhaustive

Incorporation of EJ Advisory Committee Recommendations



Over a dozen
EJAC meetings since
summer 2021



EJAC provided
feedback on
modeling inputs



Over 200 draft
EJAC recommendations
to inform Draft
2022 Scoping Plan



5 dozen references
to EJAC recommendations
in Draft 2022 Scoping Plan

What Carbon Neutrality Means



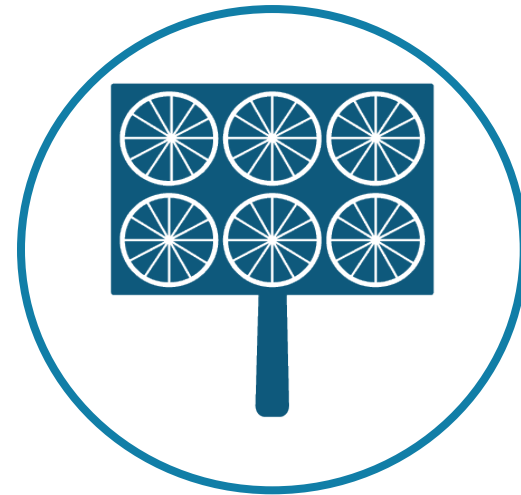
Continue to reduce
emissions from
sources in the AB 32
GHG Inventory

±



Emissions and
sequestration
from natural and
working lands

-

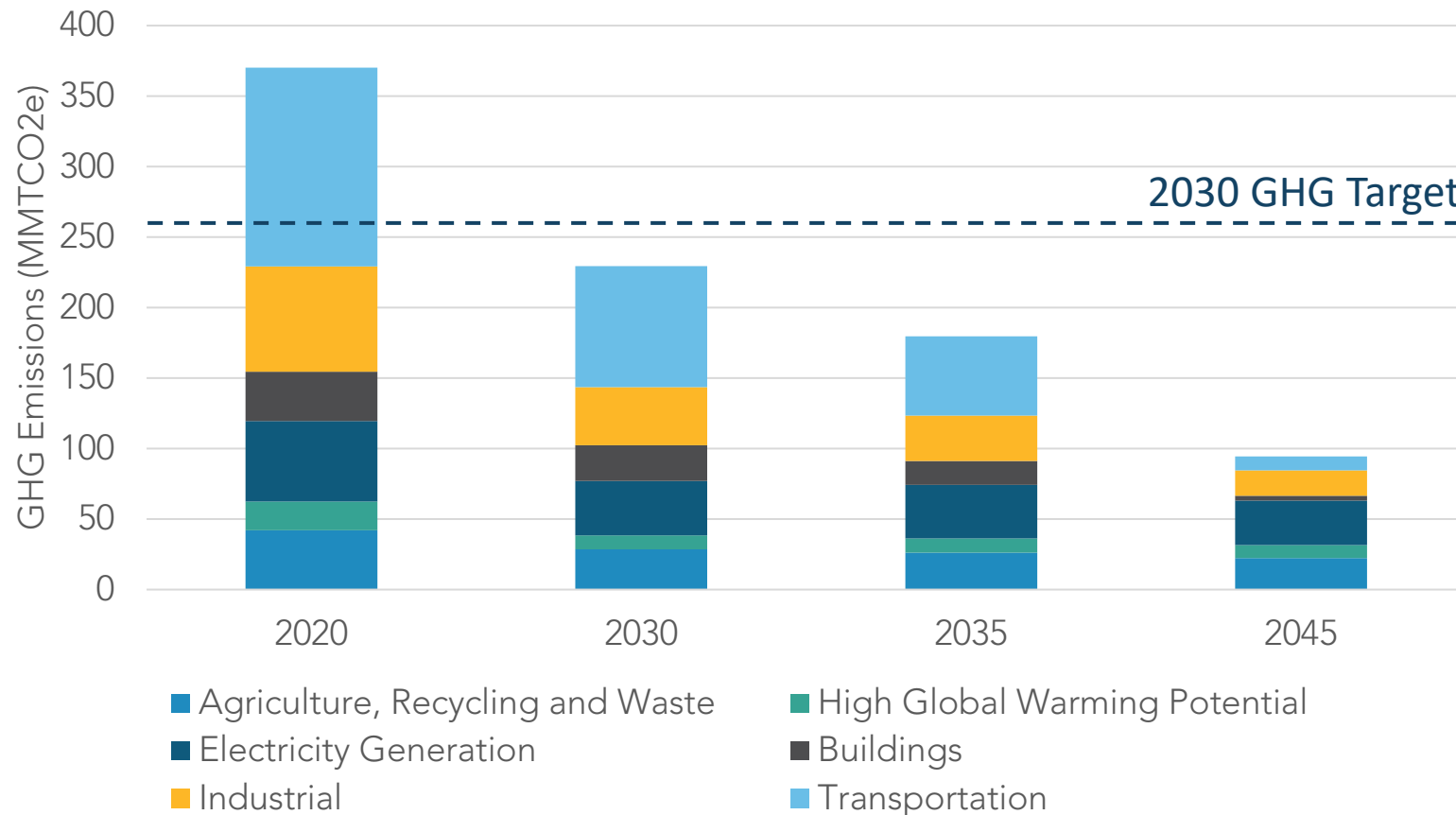


Technological
Carbon Dioxide
Removal

=

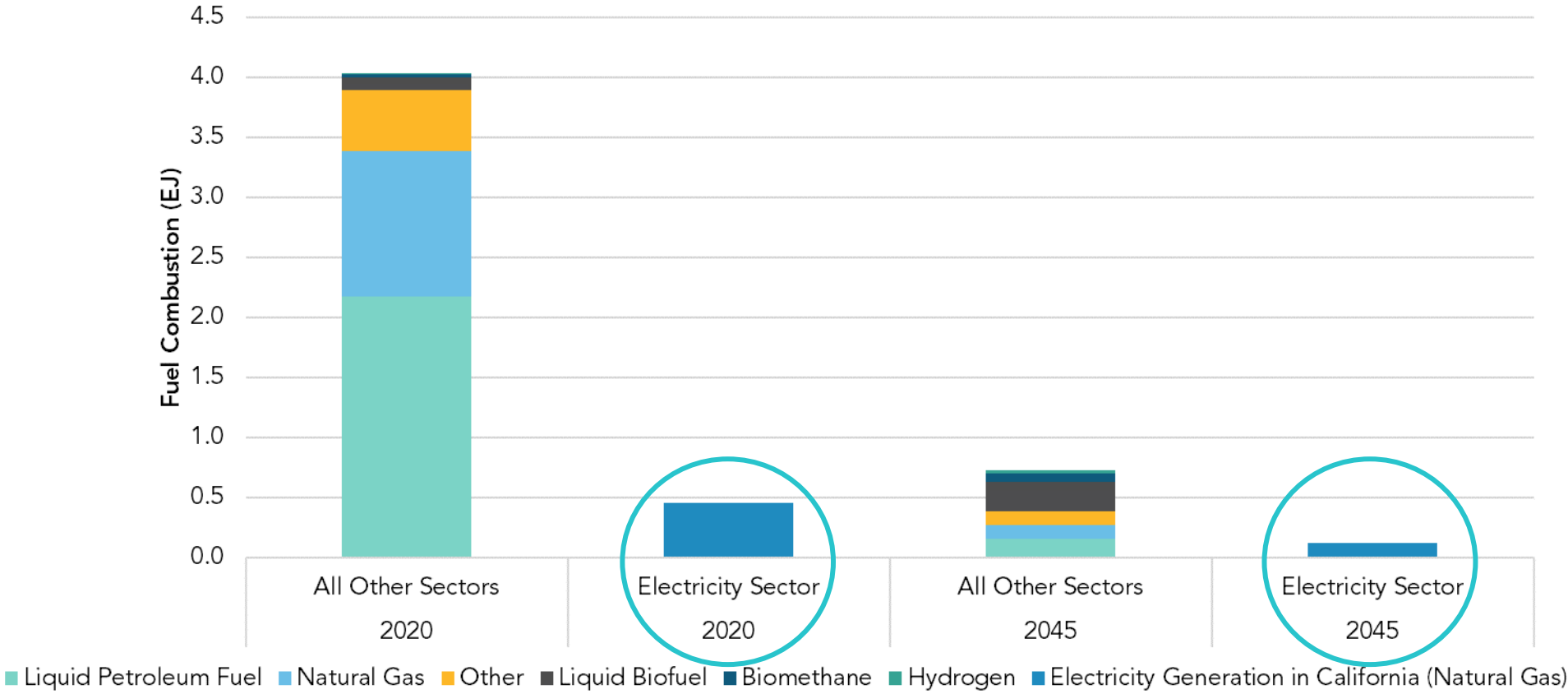
Carbon
Neutral

Proposed Scenario: Significant GHG Reductions at Sources



Successful implementation of the Proposed Scenario would exceed the SB 32 GHG Target of 40% below 1990 levels by 2030

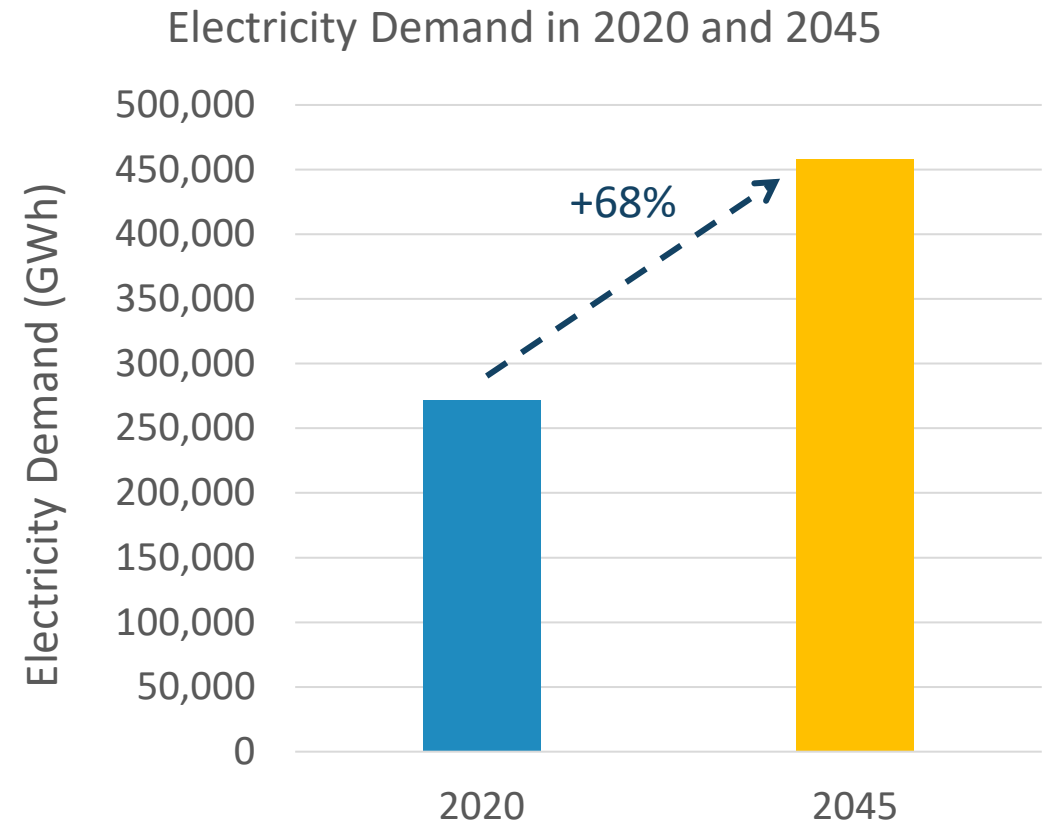
Proposed Scenario: Fossil Fuel Combustion Declines Significantly Across all Sectors



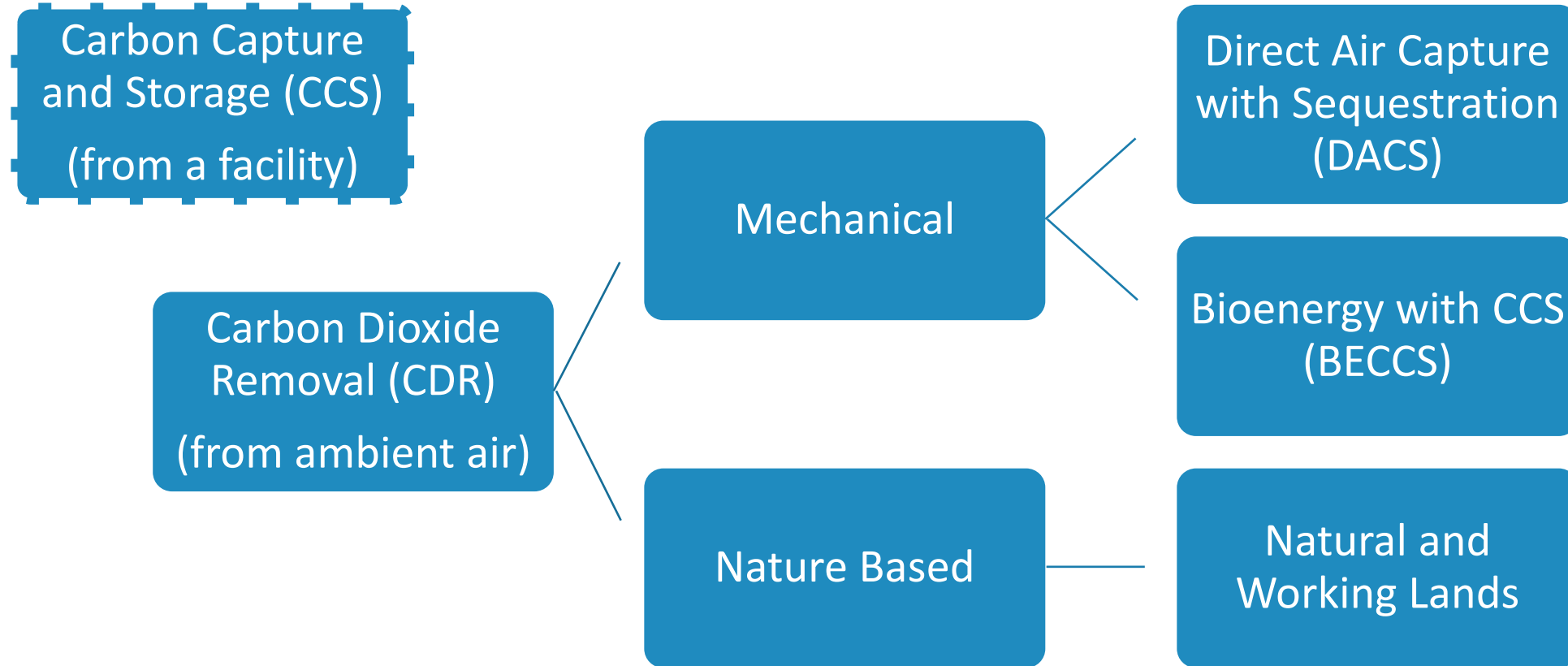
Excludes fuel combustion from CA biomass and imported electricity.

Affordable, Reliable, and Clean Electricity Grid

- Electricity demand 68% higher by 2045 as power sector plays bigger role
- More intermittent renewables will require more dispatchable resources for reliability
- Opportunities to increase storage and increase energy efficiency can reduce need for new gas capacity builds



Carbon Removal and Sequestration



NWL and the Scoping Plan

Healthy trees, plants, and soils can support our greenhouse gas reduction goals in two primary ways:

1. Serving as carbon sinks through sequestration.
2. Avoiding releases of emissions from their substantial existing carbon stocks.

We are not focusing on maximizing carbon across all landscape types.

We are focusing on supporting carbon management that fosters ecosystem health, resilience and many other ecosystem services.

Landscapes Included in the Draft



Forests, shrublands, and grasslands



Annual and perennial croplands



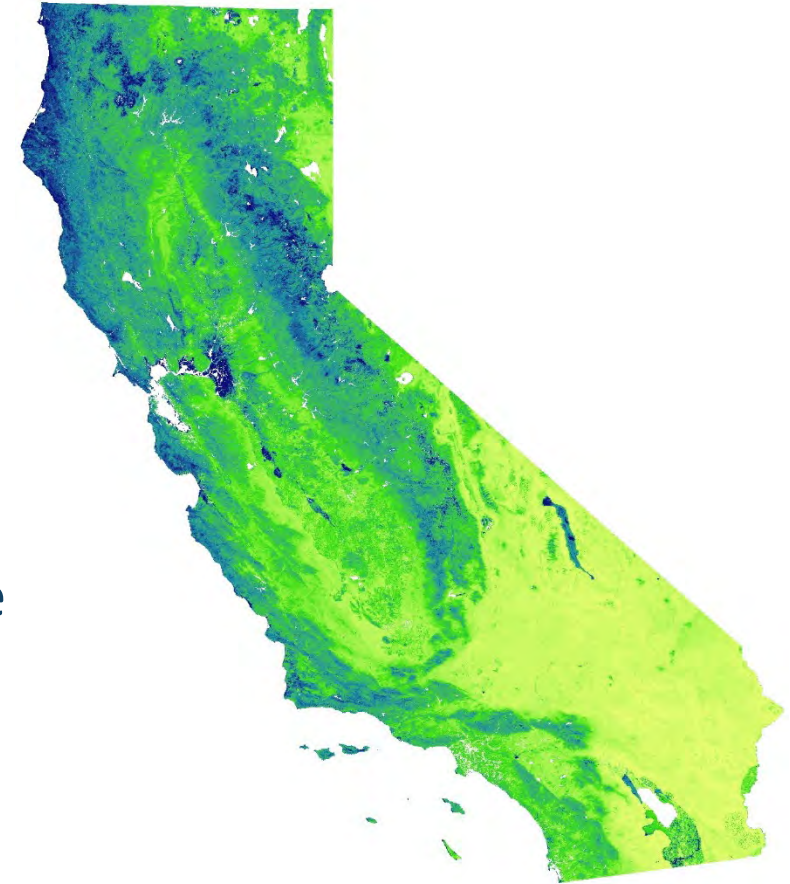
Sacramento-San Joaquin Delta



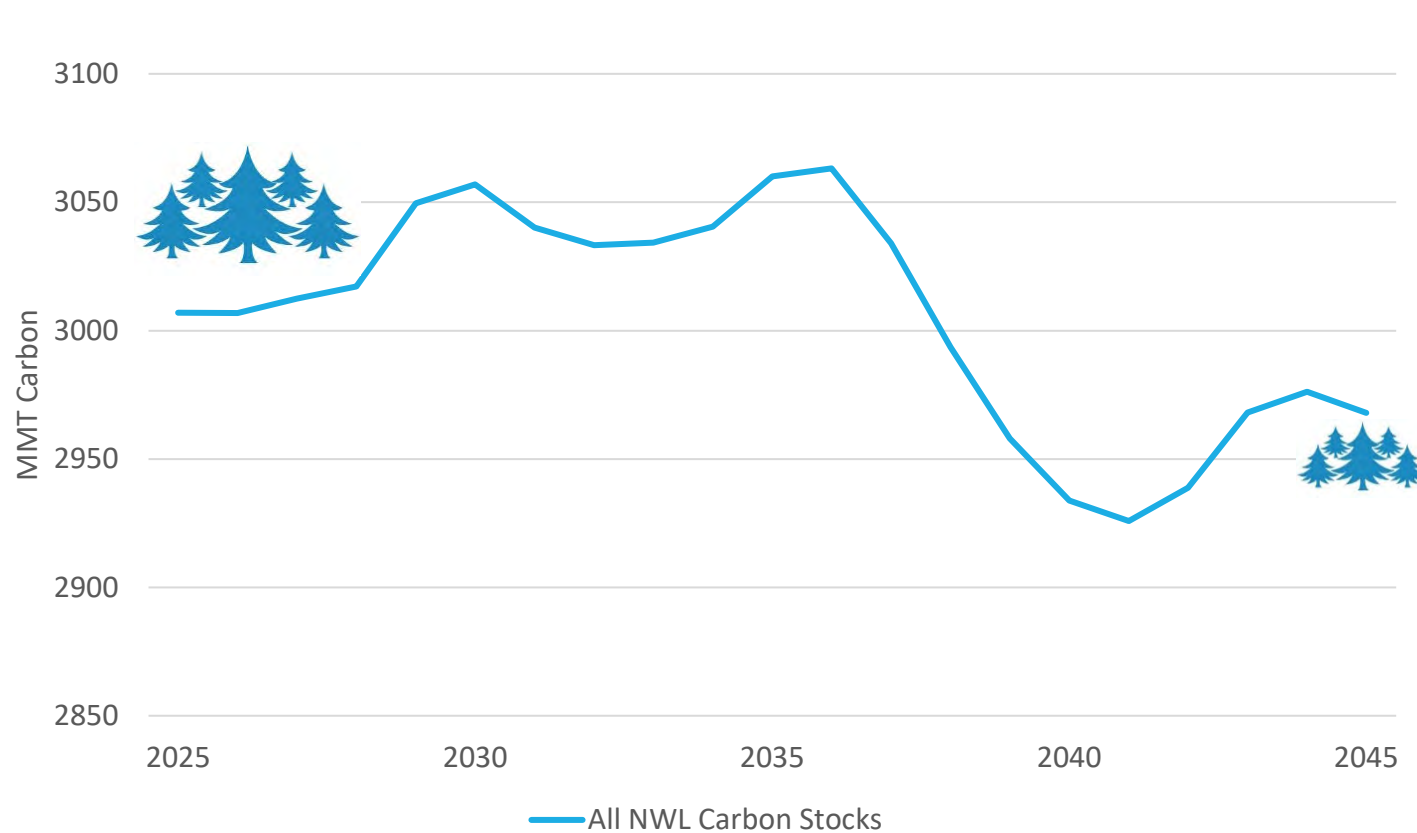
Urban forests and wildland urban interface



Deserts



NWL Carbon Stock Loss Over Time



Carbon stocks include:

- Above and below ground biomass
- Soil carbon in annual croplands and wetlands
- Harvested wood products

Carbon on lands in constant flux

- Decreasing trend through 2045
- Photosynthesis results in CO₂ removals
- Wildfire, decay, and soil oxidation result in CO₂ and CH₄ emissions
- N₂O emissions calculated as well

Role and Scaling of Carbon Removal



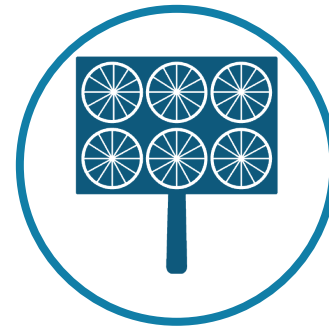
AB 32 Inventory Sectors: Significantly reduced, but some emissions remain

±



NWL a source

-



Need carbon removal to compensate for AB 32 and NWL sectors

=

Carbon Neutral

- **Role of CDR is reduced if:**
 - We reduce the emissions from the AB 32 Sectors faster
 - NWL is able to become a sink

Additional Topics in Draft Scoping Plan

- Convening of multiagency group with communities to discuss options to ensure safe, reliable deployment of CCS
- Cap-and-Trade role in achieving 2030 target is likely reduced due to following:
 - New legislation: SB 350, SB 596
 - More stringent programs: LCFS, proposed ACC 2
 - Reductions in emissions due to pandemic related impacts
- \$20.3 billion in Cap-and-Trade auction proceeds generated since 2014
 - 50% of implemented projects benefitting the State's disadvantaged and low-income communities

Key Recent Climate Legislation

AB 1279: Codifies carbon neutrality target by 2045, requires anthropogenic emissions to be reduced by 85% by 2045 (carbon capture and sequestration counts)

SB 905: Directs CARB to establish engineered carbon removal and carbon capture utilization and sequestration program to support carbon neutrality

AB 1757: Requires the establishment of natural and working lands sequestration targets

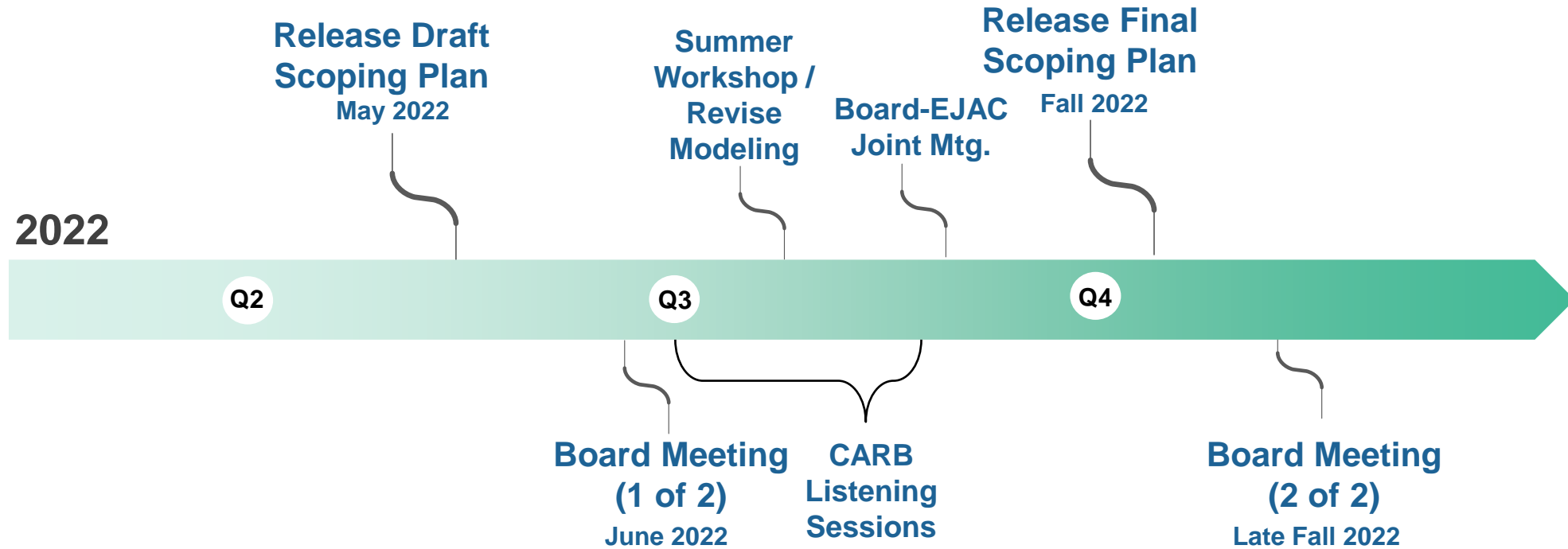
SB 1020: Establishes interim clean electricity targets and interim targets

SB 846: Extends Diablo power plant

AB 1322: Aviation fuels targets of 20% reduction by 2030

SB 1137: Oil and gas setbacks of 3200 feet

2022 Scoping Plan Update Schedule



EJAC Meetings and Community Meetings (ongoing)

Scoping Plan Workshops (ongoing)



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 16

Consideration of Proposition 30 (2022)

**Board of Directors Meeting
September 21, 2022**

**Alan Abbs
Legislative Officer
aabbs@baaqmd.gov**

Presentation Outcome



Staff will provide an overview of Proposition 30 – the “Clean Cars and Clean Air Act” – appearing on the November 8, 2022, Statewide General Election Ballot.

Presentation Outline



- Summary
- Ballot Initiative Timeline
- Program Allocation
- Support/Opposition
- Discussion

Presentation Requested Action



Recommend the Board of Directors (Board) discuss and consider taking a position on Proposition 30 (2022).

Summary



- A **YES** vote on this measure means: Taxpayers would pay an additional tax of 1.75 percent on personal income above \$2 million annually. The revenue collected from this additional tax would support zero-emission vehicle programs and wildfire response and prevention activities.
- A **NO** vote on this measure means: No change would be made to taxes on personal income above \$2 million annually.

Ballot Initiative Timeline



- November 5, 2021 – Ballot Initiative #21-0037 filed.
- January 10, 2022 – Signature drive allowed to begin with signatures due on July 11, 2022.
 - Signatures Needed: 623,212
 - Final random sample count concluded that 720,238 of the 990,608 submitted signatures were valid.
- June 28, 2022 – the Secretary of State reported that the initiative had qualified for the November 8, 2022, Statewide General Election Ballot.

Program Allocation



Program (Fund)	Focus Areas	Program Allocation	Focus Area Minimum Allocation
ZEV Infrastructure Program (ZEV investment plan)	Multifamily Charging	35% of total revenue	20%
	Single-Family Charging		10%
	Fast-Fueling ZEVs		10%
	M/HD ZEV Fueling		10%
ZEV Affordability Program (ZEV & Clean Mobility Fund)	Passenger ZEVs	45% of total revenue	67%
	M/HD ZEV & Non-Vehicle Mobility		33%
Reducing Wildfire GHG Program (RWGP) (RWGP Fund)	Fire Marshal P&S Account*	20% of total revenue	25%
	CAL FIRE General Account*		75%

**Both accounts can be spent on suppression and prevention programs defined in the measure. The CalFire General Account prioritizes suppression for the first six years (with up to 25% of funds spent on prevention), after which the relative allocation is discretionary.*

Support



Officials: 50+ Elected Local, State, and Federal Officials, including Congress Members Khanna and Lee; State Senators Wieckowski and Wiener; State Assembly Members Haney, Mullin, R. Rivas, Stone, Wicks, and Wilson; and Mayors Arreguin, Breed, Ezzy Ashcraft, Liccardo, and Schaaf.

Corporations: 20+ Corporations, including Lyft, Rivian, and ChargeNet.

Unions: California State Association of Electrical Workers, State Building and Construction Trades Council of California, California State Pipe Trades Council, among others.

Organizations: California Environmental Voters, Coalition for Clean Air, Natural Resources Defense Council, Brightline Defense, SPUR, American Lung Association, among others.

**This is a non-exhaustive list.*

Opposition



Officials

- Governor Gavin Newsom

Unions

- California Teachers Association

Organizations

- Howard Jarvis Taxpayers Association
- California Chamber of Commerce

**This is a non-exhaustive list.*



Questions / Discussion