

DOCKETED	
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Project Title:	SB 100 Joint Agency Report
TN #:	254243
Document Title:	CARB Presentation for SB 100 Land Use Workshop
Description:	CARB presentation for 02/01/2024 SB 100 Land Use Workshop "Natural and Working Lands Climate Planning" by Dr. Adam Moreno
Filer:	Xieng Saephan
Organization:	California Energy Commission
Submitter Role:	Commission Staff
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Natural and Working Lands Climate Planning

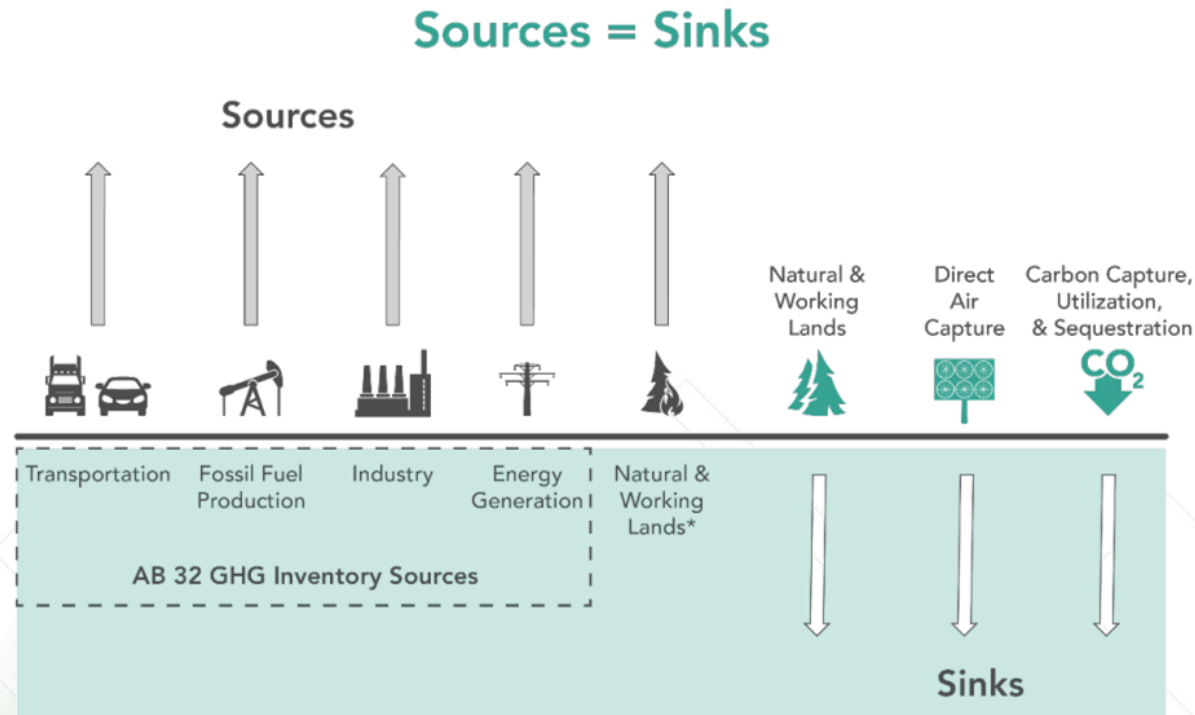
Dr. Adam Moreno
Manager, Nature-Based Strategies Section

Agenda

- The Scoping Plan and Natural and Working Lands (NWL)
- Assembly Bill 1757 - NWL Implementation Targets and Monitoring
- Clean Energy Siting NWL Considerations

Scoping Plan and Natural and Working Lands

Figure 1-5: Carbon neutrality: Balancing the net flux of GHG emissions from all sources and sinks



*Natural and working land emissions come from wildfires, disease, land and agricultural management practices, and others.

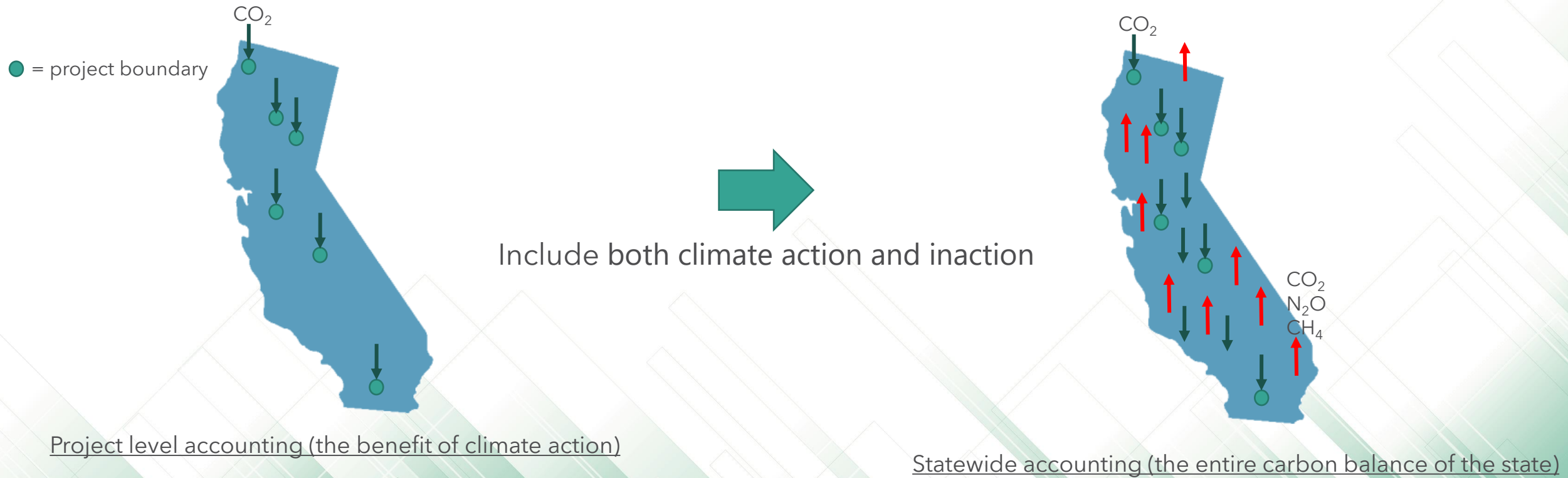
Scoping Plan and Natural and Working Lands

- 2022 update expanded to carbon neutrality



Natural and Working Lands and Carbon Neutrality

Quantify statewide carbon dynamics (both where climate action is and isn't occurring)



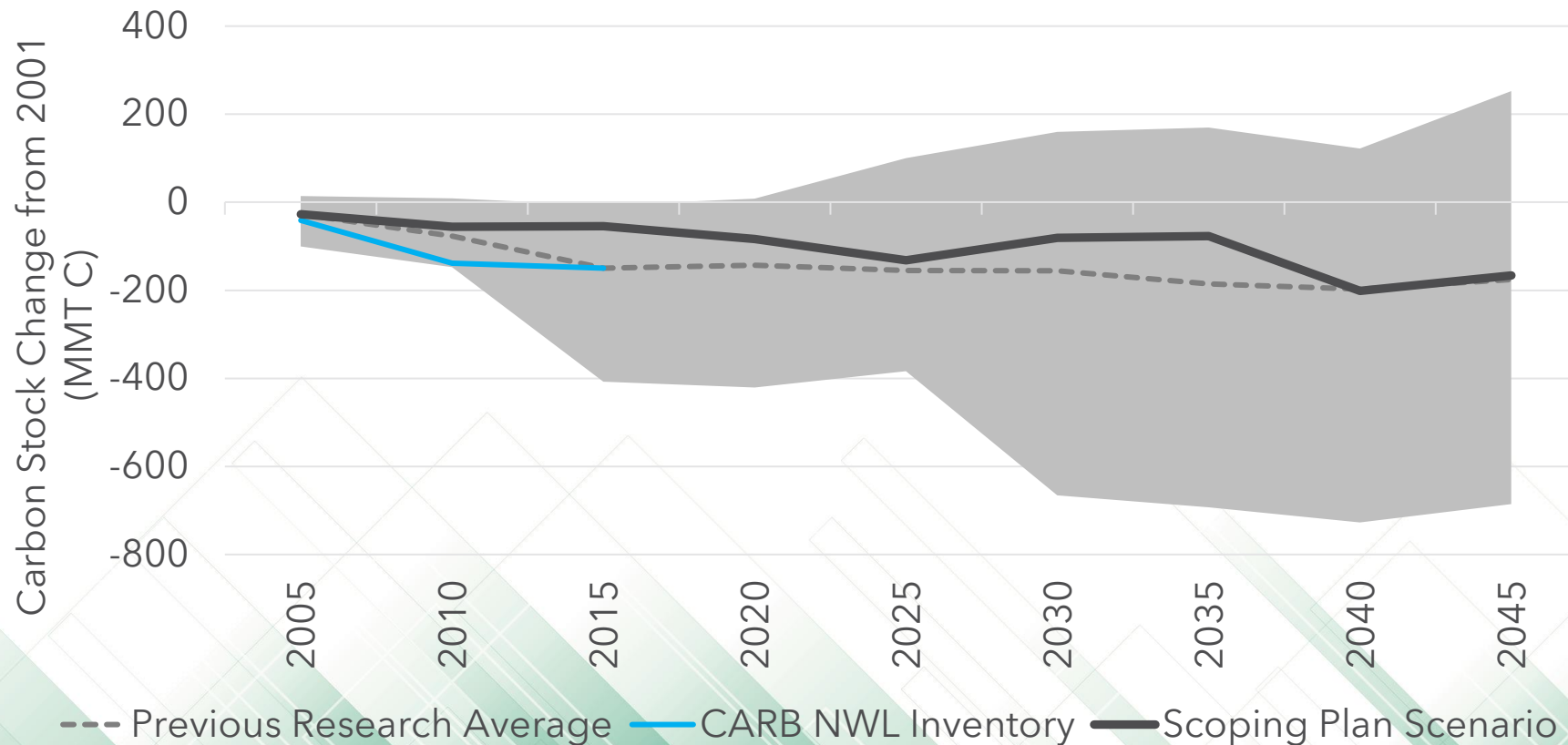
NWL Scoping Plan Scenario Updates

- 2022 NWL Scoping Plan Scenario

Action	Level of Action
Forest, shrubland, and grassland fuel reduction and restoration (acres/year)	2,300,000
Regenerative agriculture and cropland conservation above BAU (acres/year)	150,000
Urban Forest investment increase above current investment (annual % increase)	200%
Defensible space establishment in wildland urban interface (properties/year)	50,000
Delta wetland restoration (total acres by 2045)	60,000
Desert Conservation above current conservation (acres/year)	15,000

NWL Scoping Plan Scenario Updates

- Carbon Stock Results



Note: Grey shadow shows range of results from previous independent research

AB 1757 - Natural and Working Lands

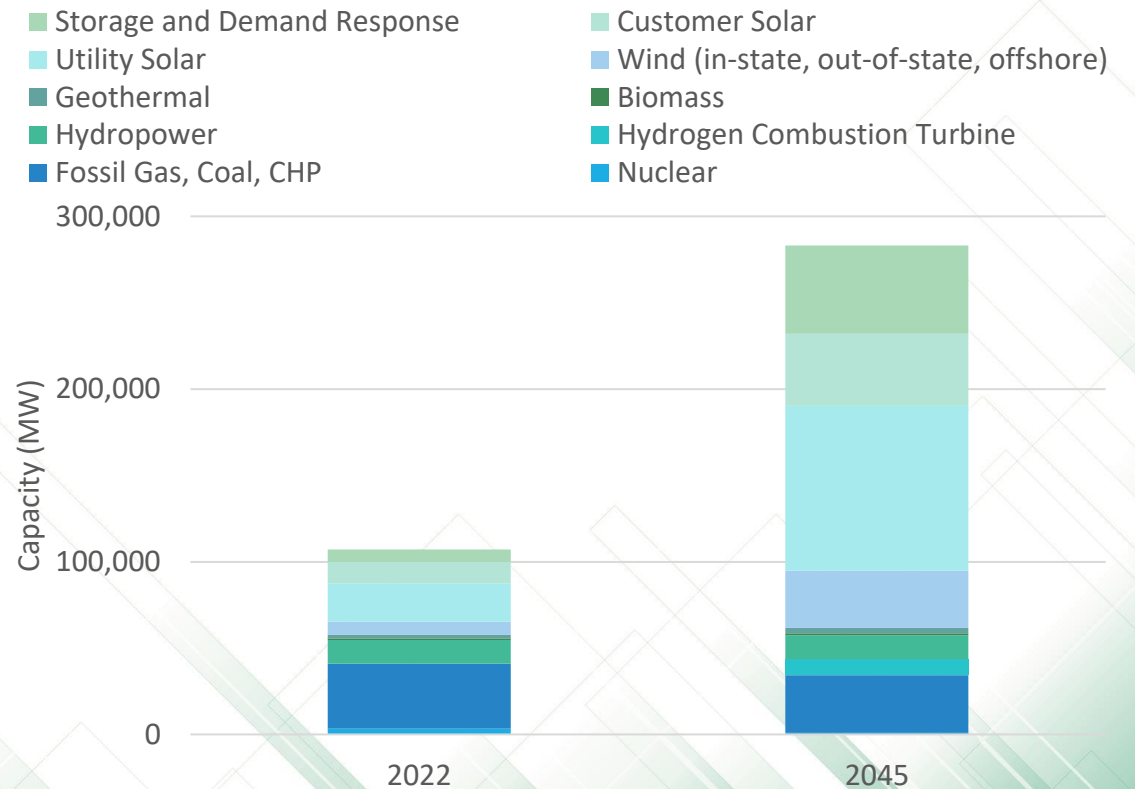
- CNRA, in consultation with CARB and CDFA, set comprehensive implementation targets
 - Conservation will be included in these targets
- Mandate tracking and reporting of the impact of management and land use change actions on NWL
- Monitor multiple benefits and impacts of climate action, not only carbon

2022 Scoping Plan for Achieving Carbon Neutrality

Electric Sector Transition

- Grid to be the backbone of California's decarbonized economy
- Accelerate pace of building clean energy infrastructure and clean technology deployment to achieve the 2030 target and be on track for carbon neutrality
- At this scale of build out, key factors include permitting, transmission and generation, and available land
- Areas of uncertainty include permitting times and local opposition to utility-scale renewables

4x existing wind and solar capacity in 2045



NWL Clean Infrastructure Considerations

- Prioritize siting on already developed, disturbed, and degraded landscapes
- In terms of carbon and water, conversion of forests should be avoided
- Carbon is not the only consideration when prioritizing land use change impacts (public health, sensitivity, cultural importance, etc.)
- Many externalities exist with loss of ecosystem services that cannot currently be quantified for costs.

Competing Priorities and Opportunities

- Innovative planning and cooperation from local jurisdictions can address both energy infrastructure and land conservation needs
- More analysis is needed to understand if currently developed, disturbed, or degraded land is sufficient to meet clean energy infrastructure needs
- To reduce development on natural lands may require development closer to communities and increased costs
- Integration of clean energy infrastructure with agriculture, brownfields, mining, and landfills