DOCKETED	
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Description:	1A. Maureen Hand, CARB
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Overview of Draft 2022 Scoping Plan Update



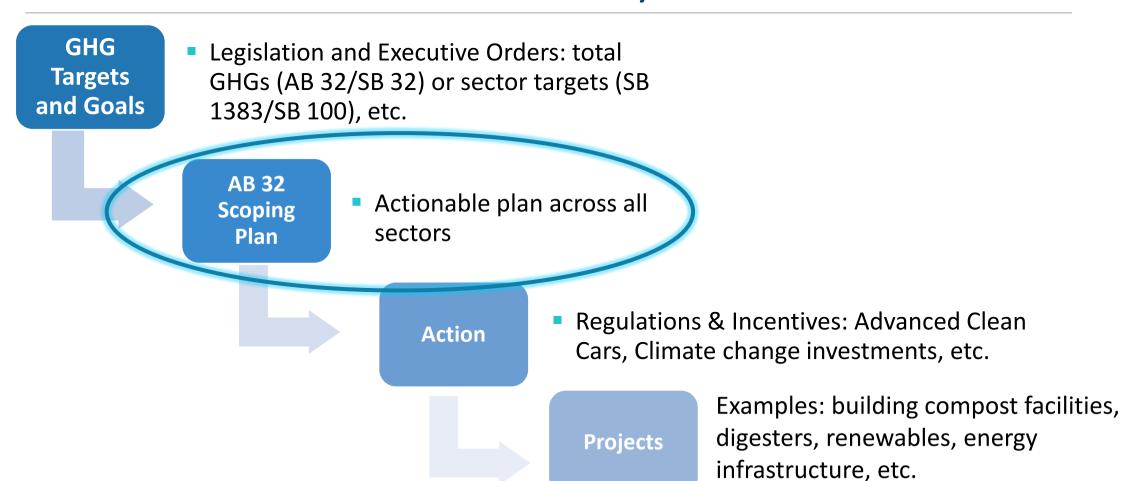
IEPR COMMISSIONER WORKSHOP ON ROLE OF HYDROGEN IN CALIFORNIA'S CLEAN ENERGY FUTURE

JUNE 21, 2022

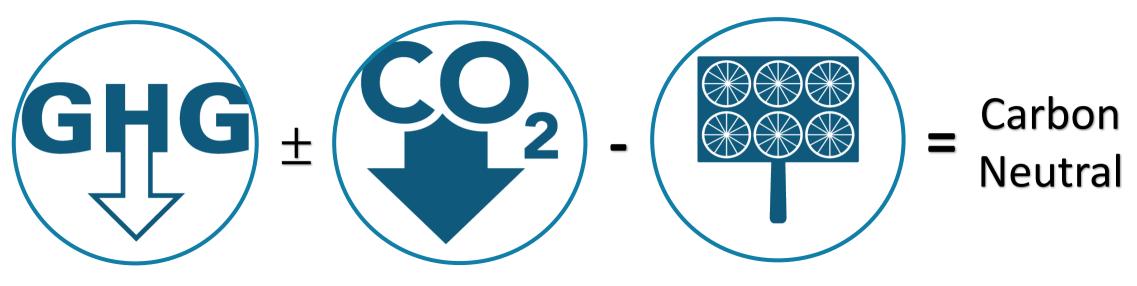
AB 32 Climate Change Scoping Plan Statutory Requirements

- 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

California's Climate Policy Framework



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

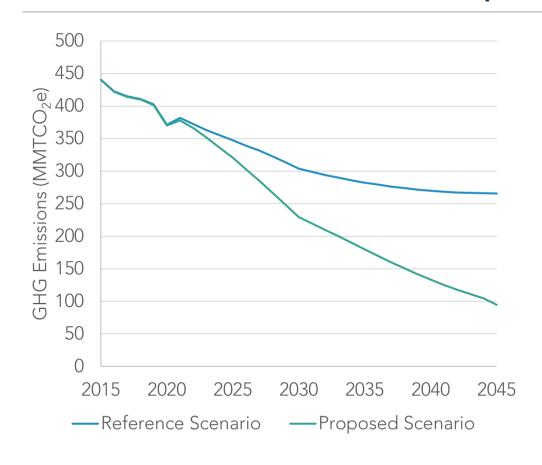
The Proposed Scenario

AB 32 GHG Inventory Sectors 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

Natural and Working Lands

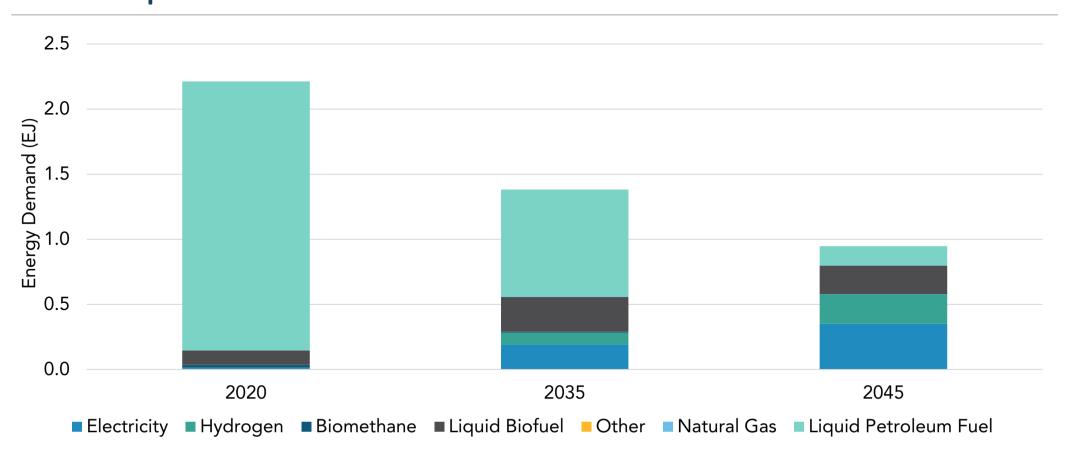
Land management activities that prioritize restoration and enhancement of ecosystem functions to improve resilience to climate change impacts, including more stable carbon stocks

Reference and Proposed Scenario

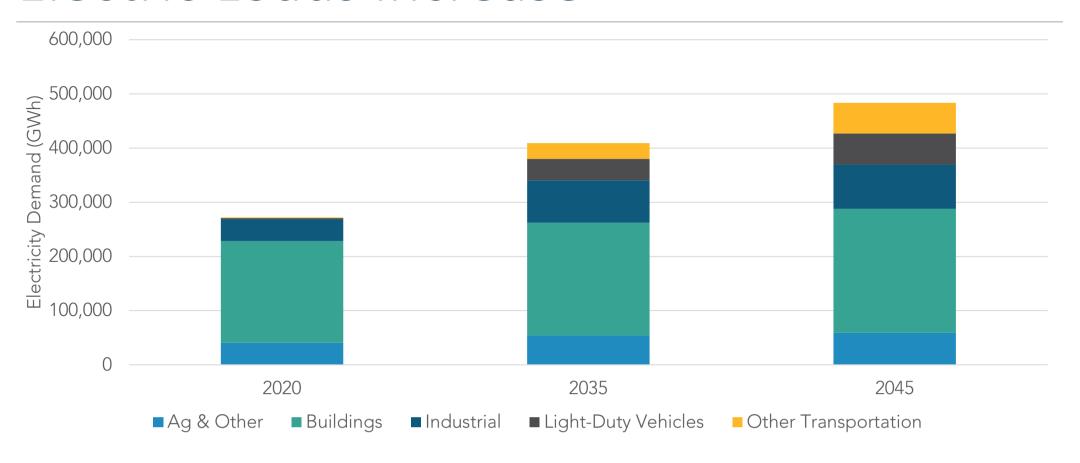


- Deploy zero-emission vehicles and reduce driving demand
- Coordinate supply of liquid fossil fuels with declining petroleum demand
- Decarbonize buildings
- Decarbonize industrial energy supply
- Generate clean electricity
- Reduce non-combustion emissions

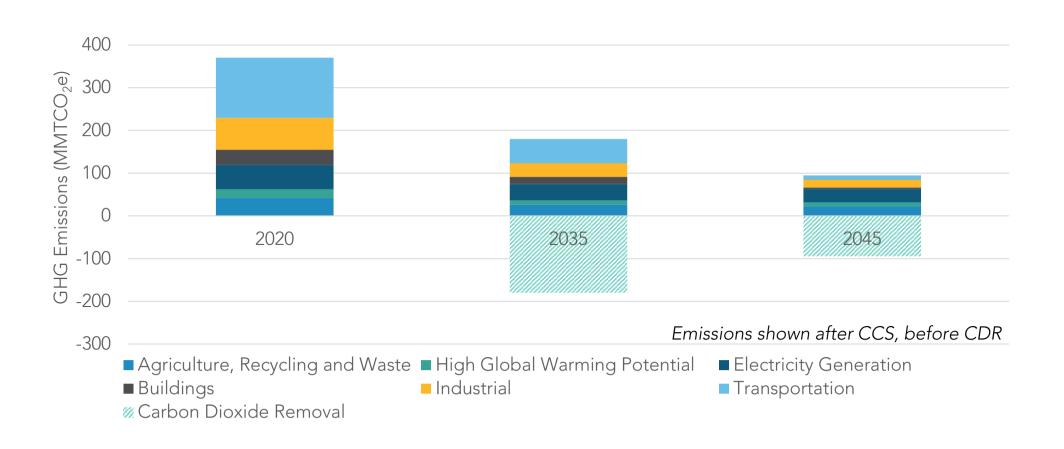
Transition Away from Petroleum Fuels - Transportation



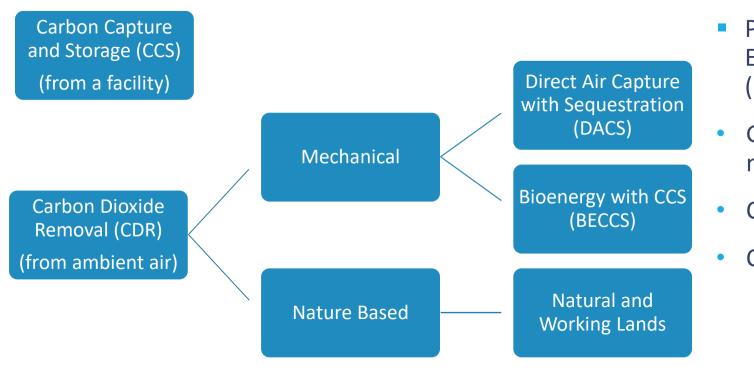
Electric Loads Increase



Residual Emissions

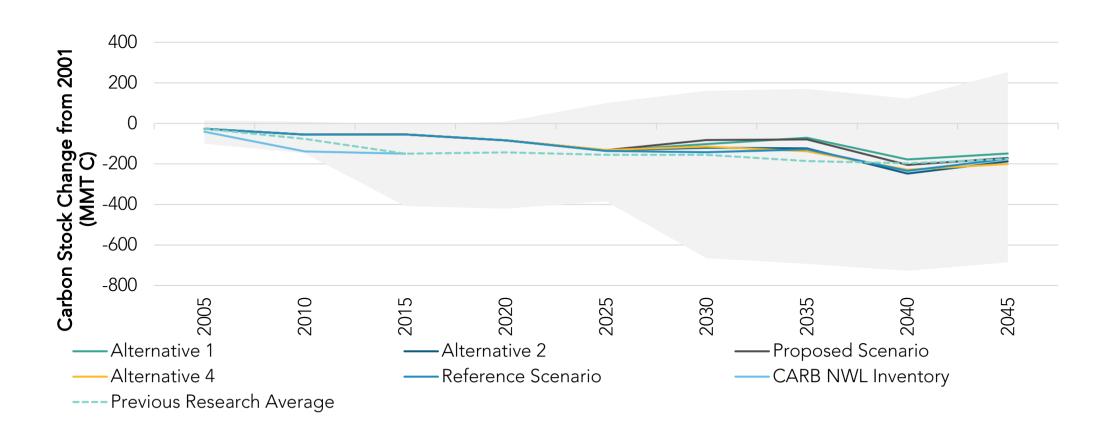


Carbon Removal and Sequestration

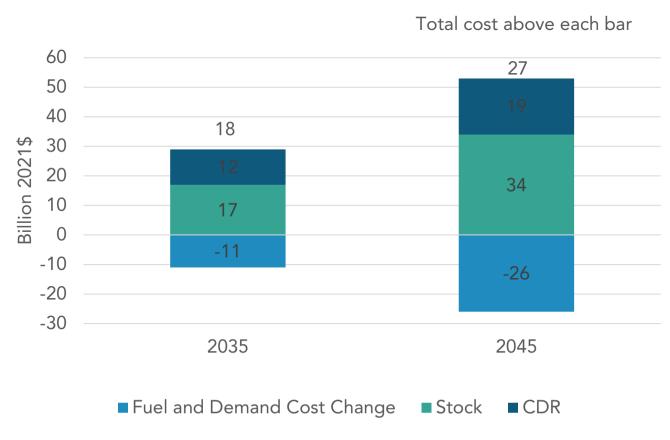


- Proposed Scenario GHG Emissions in 2045 (MMTCO₂e):
- Gross fuel combustion and non-energy emissions: 97.9
- Captured by CCS: 3.4
- CDR: 94.5

NWL Carbon Stock Decreasing

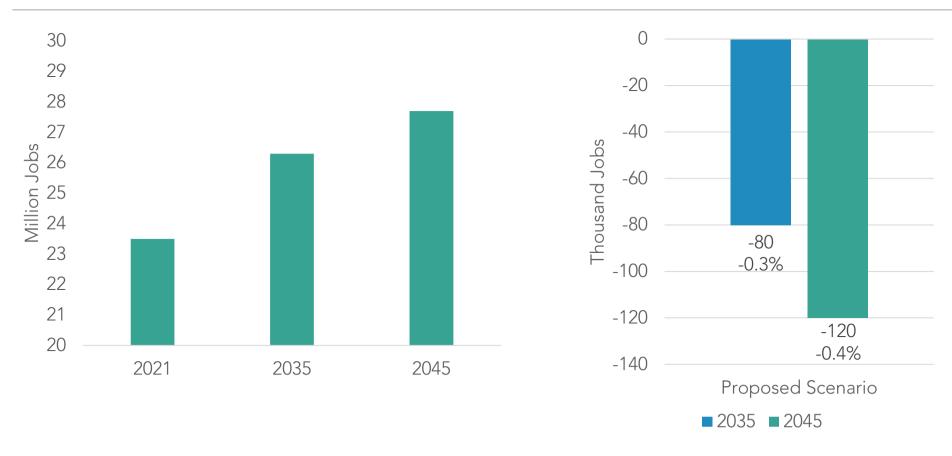


Proposed Scenario Direct Cost



Cost and savings relative to the Reference Scenario for the AB 32 GHG Inventory sectors

Proposed Scenario Employment Impact



Employment relative to a growing California workforce for AB 32 GHG Inventory Sectors

Proposed Scenario Emission Reductions

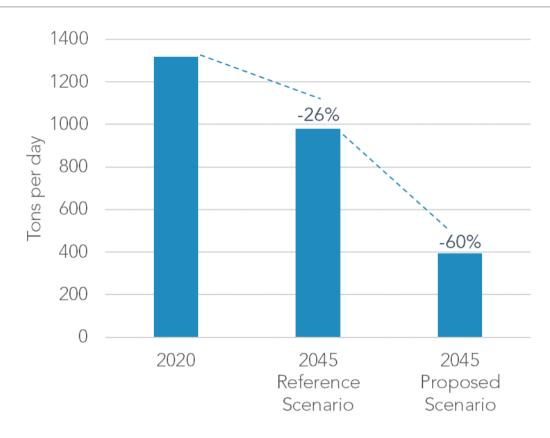
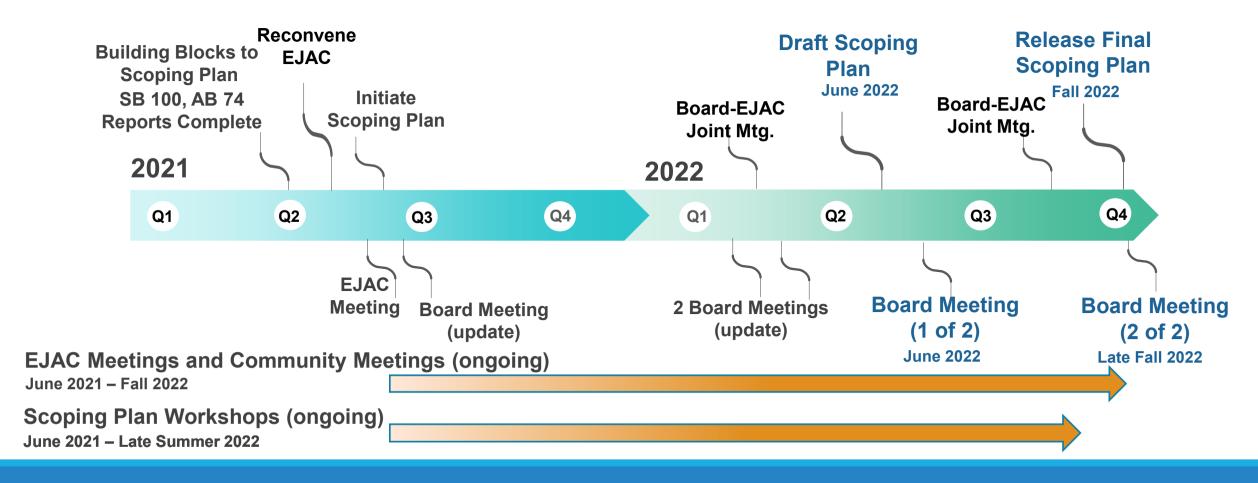


Illustration of NOx Emission Reductions from Current Levels for the Reference Scenario and Proposed Scenario in July and January 2045 for the AB 32 GHG Inventory Sectors

2022 Scoping Plan Update Schedule



Thank you

SUBMIT COMMENTS ON 2022 DRAFT SCOPING PLAN UPDATE: HTTPS://WW2.ARB.CA.GOV/APPLICATIONS/PUBLIC-COMMENTS