

## Background on 2022 Scoping Plan Update

### Overview

In preparation of the March 10, 2022 Joint CARB / EJAC board meeting, this document will reference publicly available materials to provide context for the EJAC recommendations. CARB staff will incorporate the EJAC recommendations to the extent possible in the draft Scoping Plan, which will be released in May 2022.

On February 24, 2022, CARB staff presented an overview of the development to the development of the 2022 Scoping Plan Update. The slides are here:

<https://ww2.arb.ca.gov/sites/default/files/barcu/board/books/2022/022422/22-3-5pres.pdf>.

### Statutory Requirement of the AB 32 Climate Change Scoping Plan

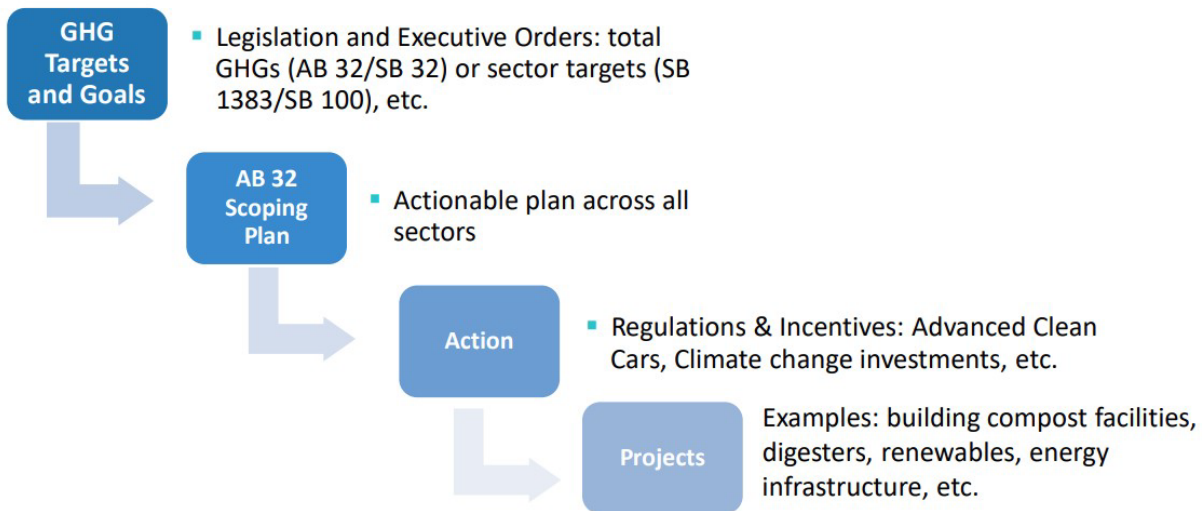
Scoping Plan(s) are action plans for CA to meet statewide GHG reduction targets. Scoping Plan(s) outline a suite of climate policies to address emissions across all sectors. Scoping Plan(s) are required to be updated at least every 5 years. Starting with the 2017 Scoping Plan, the focus is on a cost-effective and technologically feasible path to achieve the 2030 target.

Scoping Plan(s) will:

- 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

In terms of the framework, as the graphic below shows, Executive Orders and legislation directs the Scoping Plan, which then provides an actionable statewide plan to align efforts to achieve state’s climate goals. **The Scoping Plan does not go into details into individual program and regulation design.**

# California's Climate Policy Framework



## Carbon Neutrality

The 2022 Scoping Plan Update will assess progress towards achieving the Senate Bill 32 2030 target and lay out a path to achieve carbon neutrality no later than mid-century.

Carbon Neutrality is achieved when emission sources equal sinks. Up until now, every scoping plan is focused on reducing emissions from fossil energy and industrial sources included in the AB 32 inventory. As we shift to the framework of carbon neutrality, we have expanded the scope to include all sources, which includes the emissions from National Working Lands and all sinks. Carbon Neutrality includes:

- Continue to reduce emissions from sources in the [AB 32 GHG Inventory](#)
- Emissions and sequestration from natural and working lands
- Technological Carbon Dioxide Removal

More information on carbon neutrality can be found here:

[https://ww2.arb.ca.gov/sites/default/files/2020-10/e3\\_cn\\_final\\_report\\_oct2020\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2020-10/e3_cn_final_report_oct2020_0.pdf)

## AB 32 Sources Modeling Scenarios

As noted in the February 24<sup>th</sup> Board meeting, all scenarios must at least be:

- Consistent with existing Legislative Mandates and Executive Orders
- Meet statutory GHG goals
- Work in concert with existing and emerging air quality programs
- Deliver near-term air quality benefits, especially in heavily burdened communities

The EJAC provided scenario input responses, which can be viewed here:

<https://ww2.arb.ca.gov/sites/default/files/2021->

[12/EJAC%20Final%20Responses%20to%20CARB%20Scenario%20Inputs\\_12\\_2\\_21.pdf](#), along with the EJAC Framing for their scenario input response: [https://ww2.arb.ca.gov/sites/default/files/2021-12/EJAC%20Narrative%20Document%20re%20Scenario%20Input%20Recommendations%2012\\_1\\_2021.pdf](https://ww2.arb.ca.gov/sites/default/files/2021-12/EJAC%20Narrative%20Document%20re%20Scenario%20Input%20Recommendations%2012_1_2021.pdf). The CARB response to the EJAC Framing document is found here: [CARB response to EJAC Narrative.pdf](#)

The EJAC scenario input responses were incorporated into Revised Scenario Assumptions, which is available here: [https://ww2.arb.ca.gov/sites/default/files/2021-12/Revised\\_2022SP\\_ScenarioAssumptions\\_15Dec.pdf](https://ww2.arb.ca.gov/sites/default/files/2021-12/Revised_2022SP_ScenarioAssumptions_15Dec.pdf)

As shared at the February 24<sup>th</sup> board meeting, the four energy and supply demand scenarios are currently being modeled. Two of these scenarios achieve carbon neutrality by 2035 and two by 2045.

- **Alternative 1** nearly phases out fossil and biomass combustion completely across the economy. This alternative includes limited engineered carbon removal to achieve carbon neutrality by 2035.
- **Alternative 2** implements a full suite of technology options, including engineered carbon removal at a rapid pace in order to reduce emissions as much as possible and achieve carbon neutrality by 2035.
- **Alternative 3** uses a broad portfolio of existing and emerging fossil fuel alternatives and includes achievement of executive order N-79-20 eliminating internal combustion engines through the transportation sector as much as possible.
- **Alternative 4** relies on existing and some emerging technologies with slower deployment and consumer acceptance rates. It reflects a higher reliance on carbon dioxide capture and renewable technologies to achieve carbon neutrality by 2045 compared to alternative three.

By Spring 2022, staff will propose a scenario to the Board based on:

- Consistency with statutes and EOs
- Consideration of public, EJAC, and public agency input  
A balance of several factors including benefits, costs, leakage minimization, technological feasibility, direct emissions reductions in accordance with key statutes.

## Expanded Health Analysis

As shared at the February 24<sup>th</sup> board meeting, the 2022 Scoping Plan will include an expanded health analysis. This includes quantitative outcomes such as reduced cases of mortality and morbidity; as well as qualitative outcomes such as directional and scale of effects, broader set of health outcomes, and health disparities.

CARB staff continues to work with California Department of Public Health (CDPH), Office of Environmental Health Hazard Assessment (OEHHA), and other agencies on the development of the health analysis.

## Natural and Working Lands Scenarios

The Natural and Working Lands (NWL) Scenarios explore different visions for how California lands can be managed into the future, with an eye toward 2045 and beyond. The scenarios set objectives and management strategies to reach those objectives, and were developed in response to public comment, stakeholder outreach, and through state and federal government collaboration.

See below for the NWL Lands Carbon Alternatives:

- NWL Alternative 1: Prioritize maximizing short term carbon stock at 2045
- NWL Alternative 2: Balanced mix of strategies from current commitments/plans
- NWL Alternative 3: Prioritize restoration and climate resilience
- NWL Alternative 4: Prioritize forest wildfire and other fuel reduction efforts

For more information, the Revised Natural and Working Land Scenarios can be found here:  
<https://ww2.arb.ca.gov/sites/default/files/2022-02/Revised-NWL-2022SP-Scenario-Assumptions-28Feb.pdf>

More information on the AB 32 Climate Change Scoping Plan is available here:  
<https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan>