

Draft 2022 Scoping Plan

SEPTEMBER 1, 2022



June 2022 Board Hearing

- Directed staff to include the following:
 - Increase VMT to align with alternative 1
 - Household economic impacts by income level, race if possible
 - Community Vulnerability Metric
 - Text for safety considerations for pipelines, injections sites, and capture of carbon dioxide

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
 - A 20% clean fuels target for aviation
 - Carbon dioxide removal and capture target of 20 MMT in 2030/ 100 MMT in 2045
 - Increase LCFS stringency, accelerate refinery transitions to clean fuels

Scoping Plan Modifications - VMT

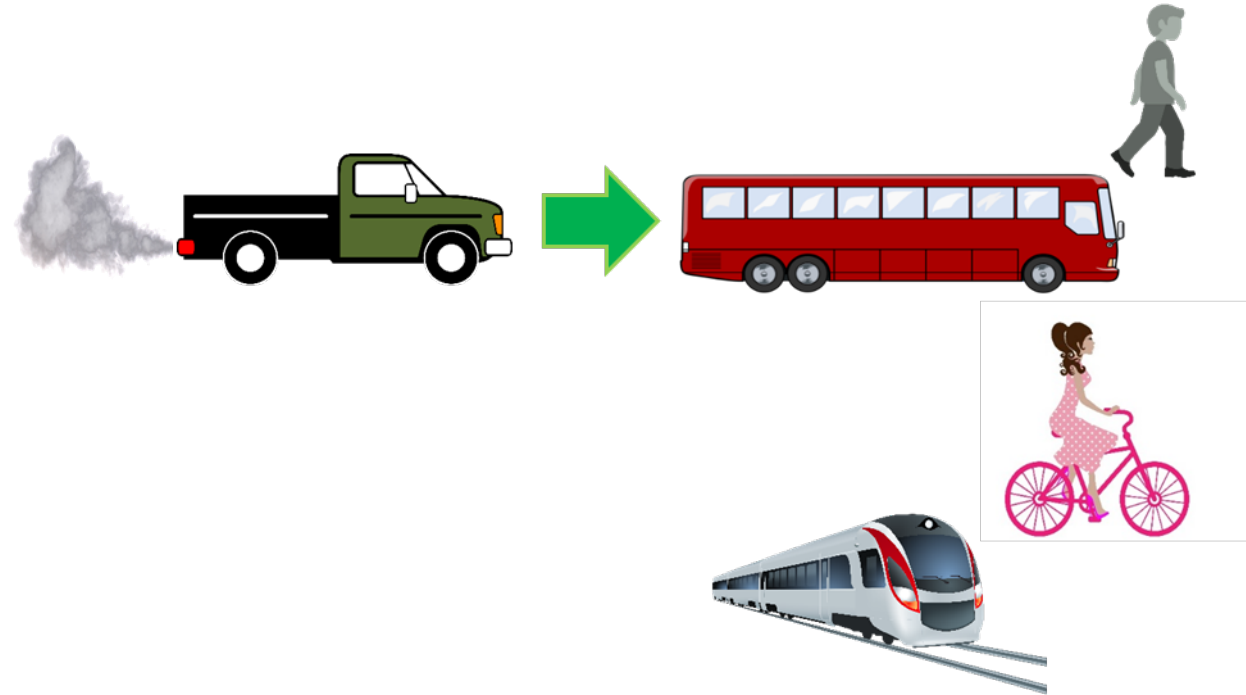
- More ambitious targets for Vehicle Miles Traveled (VMT) reductions

From

VMT reduced 12% by 2030
VMT reduced 22% by 2045
Aligned with Alternative 3

To

VMT reduced 25% by 2030
VMT reduced 30% by 2045
Aligned with Alternative 1



Scoping Plan Modifications - Electricity

- Electricity sector changes

From

~10 GW new gas capacity

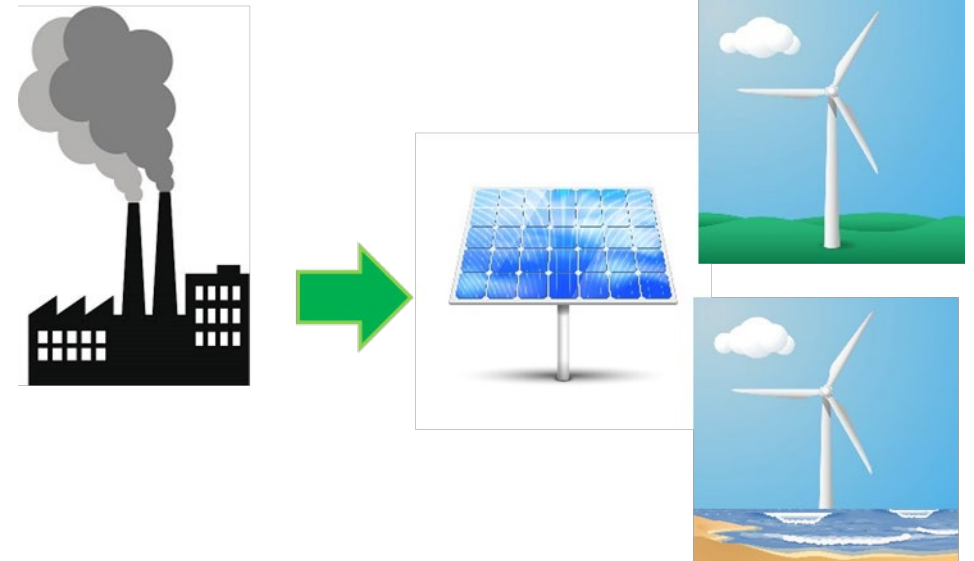
No explicit offshore wind target

Proposed scenario = 7.3GW offshore wind capacity by 2045

To

No new gas capacity

Offshore wind target of 20 GW by 2045



Scoping Plan Modifications - Communities

- Quantifying the climate change impact on front line communities

Currently used

General Social Cost of Carbon per Ton

In addition

Community Vulnerability Metric –
identify additional climate burden in
frontline communities



Scoping Plan Modifications - Households

- Quantifying household impacts

Currently done

Total statewide household impacts

In addition

Table of household impacts
by income level and race



Scoping Plan Modifications - Buildings

- “Climate ready” buildings means electric-ready

In proposed scenario

80% of appliance sales are electric by 2030
100% of appliance sales are electric by 2035
Appliances are replaced at end of life

In addition

3 million electric ready homes by 2030
7 million electric ready homes by 2035
6 million heat pumps deployed by 2030



Scoping Plan Modifications - Fuels

- Aviation fuels and LCFS

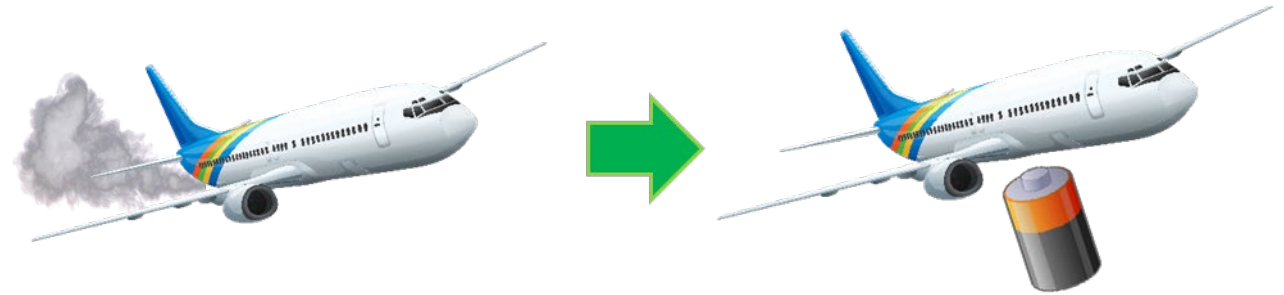
From

10% non-combustion aviation in 2045

To

20% non-combustion aviation in 2045

Increase stringency for the low carbon fuel standard (LCFS)



Scoping Plan Modifications - CCS

- Carbon Capture and Storage (CCS)

From

Modeling of CCS begins in 2021
CCS not applied to enhanced oil recovery

To

Modeling of CCS begins in 2028
CCS still not applied to enhanced oil recovery
Add text about need for safety around pipelines, injection sites,
and ccs technology



Scoping Plan Modifications - Removals

- Carbon Dioxide Removal, Sequestration, and Capture

From

No 2030 target included in modelling

To

20 MMT CO₂e/year carbon removal by 2030
100 MMT CO₂e/year carbon removal by 2045
Focus on natural and working lands 1st

