

CARB's Draft Scoping Plan, Final Scoping Plan, and Environmental Justice Recommendations

Red = Backsliding on California's climate, environmental health recommendations .

Orange = Some progress.

Yellow = Progress towards climate, environmental health recommendations.

Green = Meets climate, environmental health recommendations.

Sector	Draft Scoping Plan	Final Scoping Plan	Environmental Justice Recommendations
Oil Refineries	<p>No target date for phaseout of oil refining. Leaves phaseout up to fossil fuel corporations.</p> <p>Puts carbon capture and storage on majority of operations by 2030.</p>	<p>Multi-agency process to evaluate and plan for a transition away from petroleum refining and extraction in line with in-state demand, and address rising exports.</p> <p>Puts carbon capture and storage on majority of operations by 2030, beginning in 2028.</p>	<p>Full, coordinated phaseout of oil refining by 2045.</p> <p>No carbon capture and storage on any refinery operations.</p>
Oil Extraction	<p>Follows Newsom's EO to phase out oil extraction by 2045.</p>	<p>Reduce oil and gas extraction operations in line with petroleum demand by 2045</p>	<p>Phaseout of oil extraction by 2035.</p> <p>No carbon capture and storage on any oil and gas operations, including for enhanced oil recovery.</p>
Light Duty Vehicles	<p>Follows Newsom's EO to get to 100% ZEV sales for light-duty vehicles by 2035.</p>	<p>Follows Newsom's EO to get to 100% ZEV sales for light-duty vehicles by 2035.</p>	<p>100% ZEV sales for light-duty vehicles by 2035.</p>

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Medium- and Heavy-Duty Trucks	100% ZEV medium- and heavy-duty truck sales by 2040.	100% ZEV medium- and heavy-duty truck sales by 2040. 100% of drayage trucks are zero emission by 2035. *CARB is currently in the Advanced Clean Fleets rulemaking process and may accelerate the timeline for 100% ZEV medium- and heavy-duty truck sales to 2036.	100% ZEV medium- and heavy-duty truck sales by 2035.
Mass Transit and Reducing Reliance on Vehicles	12% reduction in VMT by 2030, 22% reduction in VMT by 2045.	25% reduction in VMT per capita by 2030	30% reduction in VMT by 2035.
Carbon Capture and Storage	CCS on majority of operations in large oil refineries by 2030. CCS on 40% of operations in stone, clay, glass, and cement by 2035, all facilities by 2045.	CCS on majority of operations in oil refineries by 2030, beginning in 2028. Acknowledges that “deployment of CCS on refineries is uncertain.” CCS for grey hydrogen produced from fossil fuels. CCS on gas power plants and bioenergy facilities. CCS on 40% of operations in stone, clay, glass, and cement by 2035, all facilities by 2045.	No CCS on polluting fuel sources. Eliminate or minimize reliance on CCS in all sectors.

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Electricity	<p>10 GW of new gas-fired electricity generation.</p> <p>Sector GHG target of 38 MMTCO₂e in 2030 and 30 MMTCO₂e² in 2045.</p>	<p>No new gas-fired electricity generation.</p> <p>Sector GHG target of 30 MMTCO₂e by 2035.</p> <p>20 GW of additional offshore wind generation.</p>	<p>No new gas-fired electricity generation, and zero emissions electricity generation by 2045 at the latest.</p>
Existing Buildings (residential and commercial)	<p>80% of all appliance sales are electric by 2030.</p> <p>100% of residential appliance sales are electric by 2035, 100% of commercial appliance sales are electric by 2045.</p> <p>Appliances are replaced at end of life.</p>	<p>80% of all appliance sales are electric by 2030.</p> <p>100% of residential appliance sales are electric by 2035, 100% of commercial appliance sales are electric by 2045.</p> <p>Appliances are replaced at the end of life.</p> <p>Includes strategies for energy efficiency upgrades prioritizing low-income and disadvantaged communities.</p>	<p>100% sales of electric appliances by 2030. Retire all gas end-uses by 2045.</p> <p>Transformative and comprehensive energy efficiency upgrades prioritizing low-income and disadvantaged communities.</p>

² Note: This has increased from the 24 MMTCO₂e in the December 2021 revised modeling assumptions to 30 MMTCO₂e in the draft plan.

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Agriculture	<p>25% energy demand electrified by 2030 and 75% by 2045.</p> <p>No targets for reducing pesticide emissions.</p>	<p>25% energy demand electrified by 2030 and 75% by 2045</p> <p>Implement climate smart practices for annual and perennial crops on ~80,000 acres annually.</p> <p>Land easements/ conservation on annual crops at ~5,500 acres annually.</p> <p>Increase organic agriculture to 20% of all cultivated acres by 2045 (~65,000 acres annually).</p>	<p>Emissions reductions from energy consumed by California's agricultural sector. There should be no energy created from agricultural waste that creates additional greenhouse gasses or toxic emissions, such as with dairy digesters and bioenergy plants.</p> <p>Transition large-scale, resource-intensive, and polluting factory farms to agroecological models, including a statewide phase out of agricultural burning.</p> <p>Include an ambitious pesticide reduction target to 1) reduce the use of synthetic pesticides by 50% by 2030 and 2) reduce the use of hazardous pesticides by 75% by 2030, starting with organophosphates, fumigants, paraquat and neonicotinoids.</p>

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Non-Combustible Methane Emissions	<p>Increase landfill and dairy digester methane capture.</p> <p>Some alternative manure management deployed for smaller dairies.</p> <p>Moderate adoption of enteric strategies by 2030.</p> <p>Divert 75% of organic waste from landfills by 2025.</p> <p>Oil and gas fugitive methane emissions reduced 50% by 2030 and further reductions as infrastructure components retire in line with reduced natural gas demand.</p>	<p>Increase landfill and dairy digester methane capture.</p> <p>Some alternative manure management deployed for smaller dairies</p> <p>Moderate adoption of enteric strategies by 2030</p> <p>Divert 75% of organic waste from landfills by 2025.</p> <p>Oil and gas fugitive methane emissions reduced 50% by 2030 and further reductions as infrastructure components retire in line with reduced fossil gas demand</p>	<p>Directly regulate livestock methane emissions starting in 2024.</p> <p>Significantly increase rate of dairy herd size reductions compared to historic levels.</p> <p>Discontinue and retire dairy digesters, and redirect incentive funding to zero-emission solutions.</p>