



State Board of Food and Agriculture

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Overview

- ▣ 2030 Target Scoping Plan
- ▣ Short-Lived Climate Pollutant (SLCP) Strategy
- ▣ Process and Schedule

CALIFORNIA CLIMATE STRATEGY

An Integrated Plan for Addressing Climate Change



VISION

Reducing Greenhouse Gas Emissions to 40% Below 1990 Levels by 2030

GOALS

**50%
reduction
in petroleum
use in vehicles**



**50%
renewable
electricity**



**Double energy
efficiency savings
at existing buildings**



**Carbon
sequestration
in the land base**



**Reduce
short-lived
climate pollutants**



**Safeguard
California**



AB 32 Objectives

- ▣ Develop a balanced approach to address climate change
- ▣ Improve air quality and public health
- ▣ Provide a consistent policy approach to drive investment in clean technology
- ▣ Provide a model for future national and international climate change efforts
- ▣ Achieve 1990 emissions by 2020; maintain and continue reductions past 2020
- ▣ Coordinate efforts across government agencies

2030 Target Scoping Plan Development

- ▣ Collaborate with State Agencies
- ▣ Engagement with Legislature
- ▣ Coordination with other plans (i.e. 111(d), Cap & Trade, SIP, Freight Strategy, etc.)
- ▣ Environmental Justice Advisory Committee Engagement
- ▣ Environmental Analysis (CEQA)
- ▣ Public Process: Workshops
- ▣ Economic Analysis with Peer Reviewers
- ▣ Draft Report / Final Report (targeted measures and estimated emission reductions)

Public Process to Date

- ▣ Governor's Climate Change Strategy Pillar Workshops
 - July/August 2015
- ▣ 2030 Target Scoping Plan Update Kickoff Workshop
 - October 1, 2015
- ▣ EJAC Public Meeting
 - December 7, 2015
- ▣ Electricity/111(d) Public Workshop
 - December 14, 2015
- ▣ GHG Modelling/Economic Analysis Public Workshop
 - January 15, 2016
- ▣ Continued opportunity for robust public process

Next Steps: Tentative Schedule

- Regional workshops – Spring 2016
 - Bay Area, Los Angeles, Central Valley
- Technical and Econ Workshops – Early/Mid 2016
 - Economic/environmental analyses
- Draft 2030 Target Scoping Plan – Spring 2016
 - 45-day informal comment period prior to Board hearing on draft
- Final 2030 Target Scoping Plan presented to Board – Fall 2016

Short Lived Climate Pollutant Reduction Strategy

Development of a SLCP Strategy

- ▣ Recommended action in the 2014 Scoping Plan Update
- ▣ Required by Senate Bill 605
- ▣ One of Governor's five pillars to meet 2030 GHG emissions goal of 40 percent below 1990 levels
- ▣ Concept Paper released in May 2015
- ▣ Draft Strategy released in September 2015

Short-Lived Climate Pollutants

- ▣ Methane, black carbon, hydrofluorocarbons (HFCs)
- ▣ Lifetimes of a few days to a few decades
- ▣ GWP can be tens to thousands of times greater than CO₂
- ▣ Account for about 40% of current global warming
- ▣ Strong, immediate action to cut emissions of both CO₂ and SLCPs is critical for mitigating climate change

Proposed SLCP Emission Targets

Proposed Target Emission Levels (MMTCO₂e)

Pollutant	Inventory	Forecast	Targets	% Reduction from 2013
	2013	2030	2030	
Black Carbon (non-forest)	38	26	19	50%
Methane	118	117	71	40%
HFCs	40	65	24	40%

Black Carbon Emission Reductions

- ▣ Significant reductions in on- road emissions already achieved primarily from diesel regulations
- ▣ Further reductions in mobile sources expected from other planning activities
- ▣ Proposing working with air districts to determine methods to reduce residential wood combustion emissions
- ▣ Evaluating mitigation measures for forest sector emissions

HFCs Emission Reductions

- International or national agreements needed to phase down the production and use of HFCs
- If no agreement in 2016, will evaluate the feasibility of a phasedown for California that aligns with similar efforts in other jurisdictions
- Proposing prohibiting the sale or use of very high GWP refrigerants

Methane Emission Reductions

- Proposing measures to reduce dairy manure management emissions
- Identifying research needs to better understand enteric emissions and potential mitigation measures
- Proposing to effectively eliminate disposal of organics from landfills; 75 percent diversion by 2020 and 90 percent diversion by 2025
- Proposing to expand use of digesters at wastewater treatment plants and encourage diverting organics to these digesters
- Reductions in oil and gas sector from ARB's oil and gas processing, production, and storage regulation, and CPUC's rulemaking to minimize leaks from natural gas pipeline system

Timeline and Next Steps

February 2016:	Release Proposed Strategy and draft EA
March 2016:	Present Proposed Strategy to Board
Summer 2016:	Present final Strategy and responses to EA comments to Board for approval
March 2015	Present Proposed Strategy to Board
Summer 2016	Present final Strategy and responses to EA comments to Board for approval