

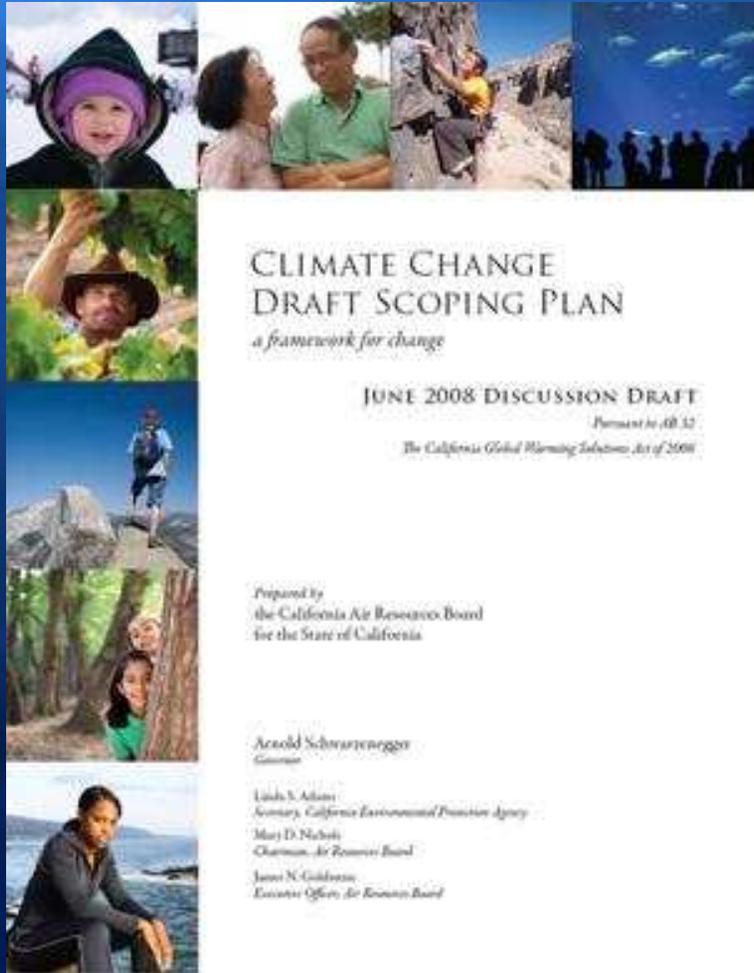
Climate Change Scoping Plan First Draft

Discussion Draft for Public Review and Comment
October 2013

Assembly Bill 32, the California Global Warming Solutions Act of 2006



2008 Scoping Plan



- Strategies for reducing GHG emissions through
 - Direct regulations
 - Market-based approaches
 - Voluntary measures
 - Policies
 - Other emission reduction programs

California is on track to meet the AB 32 202 GHG
emission reduction goal:
1990 levels by 2020

Scoping Plan Adopted Measures

- ✓ Cap-and-Trade
- ✓ 33% RPS
- ✓ Refrigerant Management Program
- ✓ High GWP Consumer products
- ✓ Semiconductor Manufacturing
- ✓ Mobile Air Conditioners
- ✓ Heavy Duty Trucks
- ✓ Shore Power for Ocean-going Vessels
- ✓ California Solar Initiative

Scoping Plan Adopted Measures

- ✓ Advanced Clean Cars
- ✓ Low Carbon Fuel Standard
- ✓ Energy Efficiency Audits for Large Facilities
- ✓ High Speed Rail
- ✓ Sulfur Hexafluoride Reductions in Electrical Appliances
- ✓ Water Efficiency
- ✓ Building and Appliance Energy Efficiency Standards
- ✓ **Landfill Methane Capture**
- ✓ **Mandatory Commercial Recycling**

Five Year Update

At the Core of the Update

How have we done in the last five years?

What is needed to continue the prescribed course of action to 2020?

What steps must we take in the coming years to continue cutting emissions and growing the economy?

Also Included in the Update

- Latest Understanding of Climate Science
- Progress Toward 2020 Goal
- California, Interstate, Federal, and International Climate Change Mitigation
- Continuing Progress Beyond 2020
- Funding GHG Reduction Strategies
- Appendices
 - CEQA Environmental Assessment (final report)
 - Status of Scoping Plan Measures (final report)
 - Focus Group White Papers (final report)
 - EJAC Recommendations

Six Sectors of 2013 Scoping Plan Update



Water



Energy



Agriculture



Transportation



**Natural
Resources**



Waste

Recycling and Waste Management Sector



Reuse
Remanufacturing of Recovered Material
Recycling
Composting
Anaerobic Digestion
MSW Biomass
Combustion
Landfills

GHG Emissions in the Waste Sector

- **Primary source of GHG emissions** from this sector is from the decomposition of organic material in **landfills**
- **Recycling and reduction of waste** will **reduce upstream GHG emissions** associated with producing and transporting products
- **Regulations** have been adopted to **reduce emissions by 2 MMT**
- New mechanisms are being explored that can provide **greater reductions**

Waste Sector Management Plan

- ARB and CalRecycle working together to characterize emission reduction opportunities for different options for handling waste
- ARB and CalRecycle tasked with proposing a comprehensive approach for appropriate treatment of the waste sector under the cap-and-trade program
- The Plan identifies an integrated vision for California for addressing waste-related issues, future GHG emission reductions, and the waste reduction goals of AB 341.



Waste

Key Recommendations for the Waste Sector beyond 2020

- **Streamline the permitting process** and address conflicting requirements, especially for new and upgraded composting and AD facilities.
- Consider regulatory actions to reduce GHG emissions at landfills and **remove organic wastes at landfills.**



Waste

Key Recommendations for the Waste Sector beyond 2020

- **Explore funding mechanisms** to build adequate infrastructure.
- **Develop more accurate GHG emission factors** for various materials, processes, and landfill emissions.
- **Pursue various waste management alternatives** – recycling, composting, AD, bioenergy.



Waste

- Expand **public outreach**.
- Improve **state procurement of recycled products**.
- Develop **standardized product quality requirements** from composting and anaerobic digestion processes.

**Key
Recommendations
for the Waste
Sector beyond 2020**

Task Force Comments/ARB Response

GENERAL COMMENTS

- Integration between all sectors –bioenergy development
 - *Indirectly addressed*
- Economic and environmental lifecycle needed in waste sector
 - *Identify emission reduction opportunities for various materials and processes*
- Prescriptive standards mean that unrecyclable materials may be landfilled without any benefit
 - *No response*

Task Force Comments/ARB Response

- CalRecycle is placing strong emphasis on composting despite potential health impacts
 - *No response*

SPECIFIC COMMENTS

- Transportation – out of country exports
 - *Provide funding for advanced technology freight demonstration projects and pilot deployment of vehicles and equipment*

Task Force Comments/ARB Response

- Water – concerns regarding any CEQA exemption or fast tracked permitting for aerobic composting facilities. Could create water impacts.
 - *No response*
- Agriculture – support development of AD for crops and dairy waste
 - *Voluntary installation of dairy digesters has not increased as originally expected by ARB. More research will determine if this program should be mandatory/more strongly incentivized.*

Task Force Comments/ARB Response

- Energy - develop criteria for renewable energy from solid waste sources
 - *Indirectly addressed through promoting research and development of bioenergy projects, where siting does not interfere with air quality goals*

Next Steps

- Accept comments on Discussion Draft by November 1, 2013
- Release Proposed Update and EA in November 2013 for public comment
- Board consideration of Proposed Update and EA in December 2013
- Final Proposed Update and written responses to EA comments to Board for approval in Spring 2014