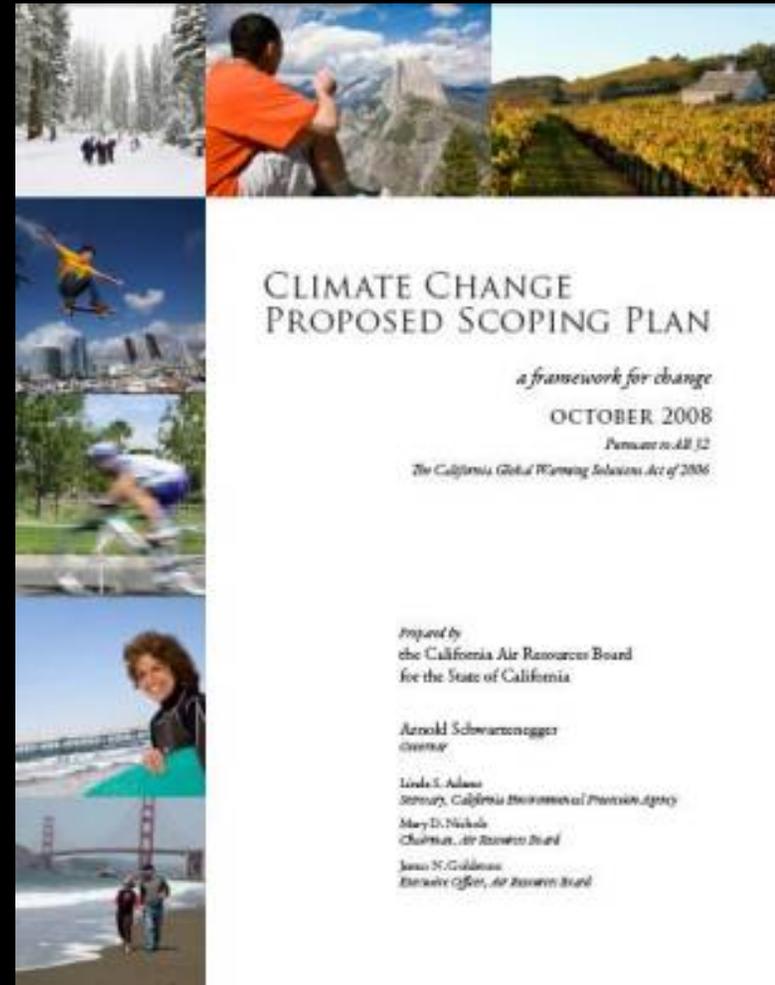


# Update On The AB 32 Proposed Scoping Plan

Tobie Mitchell  
LA County Department  
of Public Works

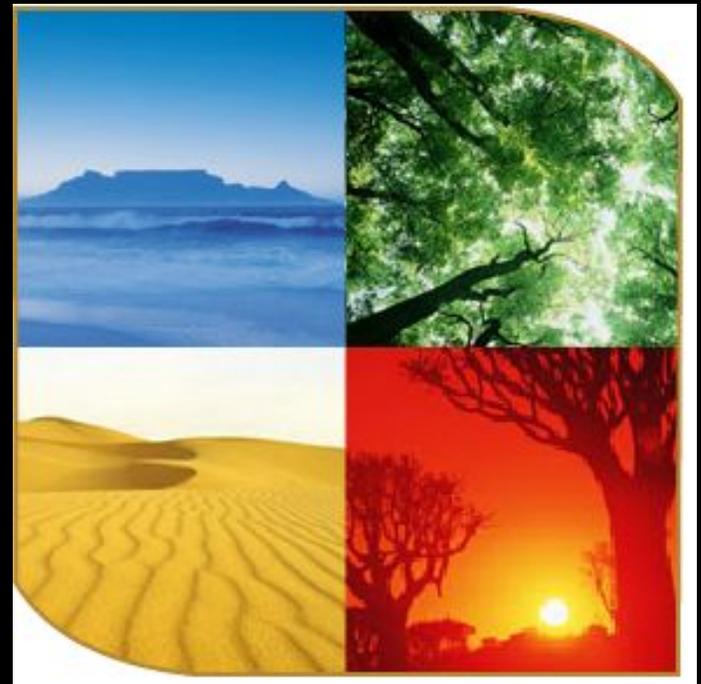


# Background

- AB 32: The Global Warming Solutions Act
- The Scoping Plan is the State's Roadmap for reducing GHGE to 1990 levels by 2020
- Lead agency for implementation is Air Resources Board
- *Draft* Scoping Plan (first draft) released on June 26, 2008
- Task Force submitted comments on the Draft Scoping Plan... along with over **42,000** other stakeholders
- *Proposed* Scoping Plan (second draft) Released October 15, 2008

# Proposed Scoping Plan Recommendations

- Mix of strategies that combine market mechanisms, other regulations, voluntary measure, and fees
- Key Elements
  - Energy efficiency programs
  - Renewable energy
  - California cap and trade program linked to WCI
  - Targets for transportation-related emissions
  - Existing laws and policies
  - Targeted fees



Source: [www.savingenergy.co.za/images/home.jpg](http://www.savingenergy.co.za/images/home.jpg)

# Recycling & Waste Management Strategies -- **UPDATE**

Carried over from Draft Scoping Plan:

- Landfill Methane Control (Early Discrete Action) – 1 MMTCO<sub>2e</sub>

## **New additions\* (adding up to 9 MMTCO<sub>2e</sub>)**

- Increasing Efficiency of Landfill Methane Capture
- Commercial Recycling
- Increase Production & Markets for Compost Anaerobic Digestion
- Extended Producer Responsibility & Environmentally Preferable Purchasing

\* *Reductions from these measures are not currently counted towards the AB 32 2020 reduction goal of 174 MMTCO<sub>2e</sub>*

# Increasing the Efficiency of Landfill Methane Capture

- Potential 2020 Reductions: *1 MMTCO<sub>2</sub>e*
  - Net Annualized Cost: *TBD*
  - Proposed Lead Agency: *CIWMB*
  - Timeline for Adoption: *TBD*
- 
- Will be a support measure to the RW-I Discrete Early Action
  - CIWMB recently published guidance document titled “Technologies and Management Practices for Reducing Greenhouse Gas Emissions from Landfills”
  - ARB and CIWMB will work together to assess need for regulatory action to mandate any specific option

# Commercial Recycling

- Potential 2020 Reductions: *5 MMTCO<sub>2</sub>e*
- Net Annualized Cost: *TBD*
- Proposed Lead Agency: *CIWMB*
- Timeline for Adoption: *TBD*



- 24,000 commercial businesses producing ½ the statewide solid waste
- It's difficult to quantify the GHG reduction benefits from recycling, because the recycling operations extend beyond CA
- Economic studies planned
- Hybrid implementation (mix of mandates and incentives) may be appropriate

# Composting

- Potential 2020 Reductions: *2 MMTCO<sub>2</sub>e*
- Net Annualized Cost: *TBD*
- Proposed Lead Agency: *CIWMB*
- Timeline for Adoption: *TBD*

## ➤ CIWMB efforts

- Economic and Life Cycle Assessment of Organic Diversion
- Compost-based BMPs
- Development of compost specs for agriculture
- Study examining effectiveness of compost as ADC

## ➤ Research still needed



Mushroom Composting in Gilroy

Source: CIWMB

# Anaerobic Digestion

- Potential 2020 Reductions: *2 MMTCO<sub>2</sub>e*
- Net Annualized Cost: *TBD*
- Proposed Lead Agency: *CIWMB*
- Timeline for Adoption: *TBD*

“This measure will seek to ***expedite the deployment of GHG reducing technologies*** by providing funding to assist developers in ***demonstrating commercialization of emerging conversion technologies*** that maximize the front-end recovery of materials for recycling, meet strict cross-media performance standards to protect public health, safety, and the environment and result in net reduction in GHG emissions.” (Proposed Scoping Plan Appendix C)

# Extended Producer Responsibility & Environmentally Preferable Purchasing

- Potential 2020 Reductions: *TBD*
  - Net Annualized Cost: *TBD*
  - Proposed Lead Agency: *CIWMB/DGS*
  - Timeline for Adoption: *TBD*
- 
- Major component of this measure is product design changes
  - Potential benefits are reductions in air emissions, water pollution, and waste minimization

# Why are R & SW Measures Not Counted in AB 32 Implementation

- State regulations are not currently in place
- Overlap with other sectors (i.e. Green Building Sector, Energy Sector, etc.)
- Expansiveness of recycling – GHG emissions effect many regions and countries, it's hard to accurately account for the reductions

# Review of Task Force Comments

## July 24, 2008 Letter to ARB

- Life Cycle Analysis
  - *TF*: ARB & CIWMB must conduct a lifecycle analysis on *all recycling activities* in order to quantify GHG reduction potential
  - *Scoping Plan*: Does not specifically address the need for a lifecycle analysis, but mentions that “***economic studies*** are planned to investigate the potential for commercial recycling” and that the Waste Board is conducting “a ***complete life cycle assessment*** of organic diversion alternatives”

# Review of Task Force Comments

## July 24, 2008 Letter to ARB

- Local Markets

- *TF*: It's critical for the state to take the lead in developing local markets for recycling, recognizing differences in international environmental laws, and that air emissions do not respect jurisdictional boundaries
- *Scoping Plan*: Concedes that most reductions from commercial recycling will occur outside of CA, and promotes “a variety of implementation approaches ...to increase commercial waste diversion,” including “***enhanc[ing] market development***”

# Review of Task Force Comments

## July 24, 2008 Letter to ARB

- Composting

- *TF*: The development of composting facilities in urban areas is challenging, requiring enclosed facilities that operate under negative air pressure, and therefore an unlikely option
- *Scoping Plan*: “Various activities for increasing the production and markets for compost and diverting these organic materials from landfills are being pursued...However, because **composting facilities emit VOCs**, which are criteria pollutants that contribute to ozone formation, these facilities may have some region-specific air district permitting requirement issues. There is a need for research...regarding **emissions from compost facilities.**”

# Review of Task Force Comments

## July 24, 2008 Letter to ARB

- Conversion technologies
  - *TF*: Recognize triple benefits of CTs 1) reducing transportation; 2) reducing landfill disposal; and 3) displacing fossil fuels by producing energy (fuel and electricity)
  - *Scoping Plan*: Incorporated anaerobic digestion as a specific measure, ***leaves the door open to all conversion technologies*** but does not specifically include them

# Review of Task Force Comments

## July 24, 2008 Letter to ARB

- Extended Producer Responsibility
  - *TF*: Include an analysis of potential GHG emission reductions associated with EPR in the Scoping Plan
  - *Scoping Plan*: Provided a definition on EPR and discussed importance; GHG reduction potential is being determined

# Important Dates

- Written comments regarding the Scoping Plan are due by **December 10, 2008 by 12:00 noon OR comments can be made at the December 11, 2008 ARB meeting**
- Adoption of the Proposed Scoping Plan by **January 1, 2009**
- **Once the Plan is adopted, no further changes will be made**
- Adoption of mandatory reporting rules by **January 1, 2009**
- Adoption of regulations to implement plan by **January 1, 2011**

# Key Issues for CIWMB

(adapted from Nov. 10, 2008 Strategic Policy  
Development Committee Presentation)

- Implications for measures not included in 2020 reduction goal
- Authority to implement measures
- Implementation approach
  - Voluntary, mandatory, hybrid
- Uncertainties related to costs and/or cost-effectiveness
- Resources to implement
  - Administrative fee to cover costs
  - Research needs

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To view the Proposed Scoping  
Plan in its entirety, please visit  
[www.arb.ca.gov](http://www.arb.ca.gov)