AB 32: The California Global Warming Solutions Act of 2006

California Water Plan Advisory Committee

March 20, 2008

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California Air Resources Board
AB 32 Timeline

- 2007: Publish list of early actions
- 2008: Mandatory reporting & 1990 Baseline
- 2009: Early action regulations enforceable
- 2010: Adopt scoping plan
- 2011: Adopt GHG reduction measures enforceable
- 2012: GHG reduction measures
- 2020: Reduce GHG emissions to 1990 levels
- Identification/implementation of further emission reduction strategies

Identification/implementation of further emission reduction strategies
California GHG Emissions

2004 Emissions (480 MMT CO$_2$e)

- Transportation: 38%
- Residential: 6%
- Industrial: 20%
- Agriculture: 6%
- Electricity Generation (In State): 12%
- Electricity Generation (Imports): 13%
- Commercial: 3%

• Approximately 19 percent of California’s electricity demand and 32 percent of non-generation related natural gas demand is due to water use

• The CAT estimated that California’s water-related emissions total about 44 MMTCO$_2$e

• Considerable interest in how this sector can help the State reduce its GHG emissions

• The Wet CAT is developing GHG emission reduction strategies and measures including
  – Reducing the energy intensity of water distribution and treatment systems
  – Increasing renewable energy associated with water
Magnitude of the Challenge

ARB Emissions Inventory

Million Metric Tons (CO₂ Equivalent)

Year

1990 2000 2004 2020 2050

1990 Emission Baseline

~173 MMT CO₂e Reduction

80% Reduction ~341 MMT CO₂e
ARB 2020 Emission Reductions
Moving towards the 2020 Target

(Already Identified 72 of 173 MMTCO$_2$e)

- Adopted Regulations (AB 1493, Anti-Idling)
- Discrete Early Action Measures
- Other Early Actions
- Remaining Reductions (Scoping Plan, CAT)
What Is the Scoping Plan?

- California’s plan, developed by ARB, to reduce the State’s emissions to 1990 levels by 2020
- A vision for a low carbon future beyond 2020
- A model for other states, regions or nations
- A process to develop cost-effective GHG emission reductions
- A tool to identify economic benefits from improved efficiency and business creation
- An opportunity to provide co-benefits and additional reductions in criteria and toxic emissions
Who Is Developing the Scoping Plan?

- ARB is responsible for developing and approving the scoping plan
- ARB is working closely with Cal/EPA and the Climate Action Team subgroups
  - Technical evaluations performed by multi-agency teams, as necessary
  - Stakeholder outreach will be a joint effort with other state agencies
- Advisory groups (EJAC, ETAAC, MAC) providing recommendations
Who Else Is Involved?

• Climate Action Team subgroups
• Local air districts & other local government
• Industrial sources
• Transportation sources
• Environmental groups
• Community groups
• California Climate Action Registry
• Western Climate Initiative
• International organizations
Climate Action Team (CAT)

- Climate Action Team led by Cal/EPA
- Many GHG reduction activities cut across agency boundaries
- Agencies other than ARB are lead for important components
- CAT will oversee coordinated effort for implementing global warming emission reduction programs and report on progress
Climate Action Team Subgroups

- Agriculture
- Energy
- Forests
- Waste Management
- Water/Energy
- Green Buildings
- State Fleet
- Cement
- Land Use and Local Government
- Economics
- Scenario
Scoping Plan Public Process

• Stakeholder outreach
  – Public workshops to discuss plan development
    • November: scoping plan kick-off workshop (L.A.)
    • December: sector summary workshop (Sac.)
    • January: mechanisms workshop (Oakland)
    • April: scoping plan scenarios workshop (Sac.)
• CAT subgroup stakeholder meetings – ongoing
• Economic analysis technical workgroup – ongoing
• Program design technical workgroup – ongoing
• Community meetings – planned
Encourage voluntary early actions
  – AB 32 calls on ARB to encourage voluntary early actions
  • Hold Scoping Plan scenarios workshop (April 17)
  • Release draft Scoping Plan (June 20)
  • Release final plan proposal (October 6)
  • Hold board hearing on scoping plan (Nov. 20–21)
After the Scoping Plan - Next Steps

• ARB will update Scoping Plan every five years
• Integration with possible regional or federal greenhouse gas programs
• Enforcement
  – Scoping Plan commitments
  – Adopted regulations
• Accountability
  – State agency (CAT) first annual “report card” to legislature March 3, 2008