Policy Mapping in California: An Overview of The California Global Warming Solutions Act

March 14, 2013
California Air Resources Board
AB 32: Requirements

- Adopt greenhouse gas (GHG) emission reporting regulation.
- Adopt discrete early action measures.
- Develop Scoping Plan and update it every five years.
AB 32: Status

- ARB first adopted the Mandatory Reporting Regulation in December 2007, with subsequent updates.
- Set 2020 emissions goal equal to 1990 emissions (approximately 427 million metric tonnes of carbon dioxide equivalent).
- Adopted and implemented nine discrete early action measures.
- Developed Climate Change Scoping Plan with additional recommended measures.
- Adopted additional emission reduction measures.
- Adopted and implemented AB 32 Fee Regulation.
AB 32 Scoping Plan: Key ARB Measures

- **Low Carbon Fuel Standard**
  - Requires a 10% reduction in carbon intensity of transportation fuels by 2020.

- **Advanced Clean Cars**
  - Light-duty vehicles sold in 2025 will emit 75% less smog-forming pollution and 34% less GHG emissions.

- **SB 375**
  - Integrated approach to regional transportation and land-use planning.

- **Cap-and-Trade Regulation**
  - Market-based regulatory program that reduces GHG emissions through a declining limit.
AB 32 Scoping Plan: Additional ARB Measures

- Shore Power*
- High Global Warming Potential Consumer Products*
- Heavy-Duty Trucks*
- Mobile Air Conditioners (“do-it-yourself” cans)*
- Semiconductor Manufacturing*
- SF6 Reductions from Non-Electrical sources*

- Tire Pressure Regulation*
- Landfill Methane Capture*
- Energy Efficiency Audits for Industrial Sources
- SF6 Leak Reduction in Electrical Appliances
- Refrigerant Management Program

* = Discrete Early Action Measure
AB 32 Scoping Plan: Other State Agency Measures

- 33% Renewable Portfolio Standard.
- Building and appliance energy efficiency standards.
- California Solar Initiative.
  - Solar hot water heaters
  - Million Solar Roofs
- Water Efficiency.
- Mandatory Commercial Recycling.
- High Speed Rail.
AB 32 Scoping Plan: Why Cap-and-Trade?

• Price greenhouse gas to incentivize change.
• Provides emission certainty in order to meet AB 32’s 2020 emission goal.
• Flexibility for regulated entities.
• Complements other Scoping Plan measures.
AB 32: Greenhouse Gas Emissions and Reductions

- Emissions to be Reduced: 80 MMT
- Remaining Emissions: 427 MMT

Source of GHG Reductions

- Cap & Trade: 18 MMT
- Low Carbon Fuel Standard: 15 MMT
- Advanced Clean Cars: 4 MMT
- SB 375 Sustainable Communities: 3 MMT
- Renewables Portfolio Standard: 11 MMT
- Energy Efficiency: 12 MMT
- High Global Warming Potential Gases: 6 MMT
- All Other Measures: 11 MMT

Note: MMT = Million Metric Tons
AB 32 Scoping Plan: Update 2013

- Discuss progress toward 2020 goal.
- Define climate priorities for the near future.
- Integration with other programs and plans – water, waste, agriculture, transportation and energy
- Start transition from 2020 to 2050 goals.
AB 32 Scoping Plan: Update Timeline

- Kick-off “focus area” discussions – February 2013.
- Preliminary draft report – Summer 2013.
- Board Meeting – Fall 2013.
• Final Scoping Plan:
  – http://www.arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm

• Alternatives to the Scoping Plan: