AB 32: The California Global Warming Solutions Act of 2006

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Air Resources Board
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Outline

- Overview of the ARB
- Scoping Plan development
Air Resources Board

• Part of Cal/EPA
• Eleven appointed Board members
• Primary legal mandates:
  – Ensure continuous progress toward attaining health-based air quality standards
  – Reduce public exposure to toxic air contaminants
ARB & EJ Issues

• ARB adopted EJ Policies and Actions on December 13, 2001
  – Commit to make environmental justice considerations a standard practice
  – Require discussion of how proposed major programs, policies and regulations treat people of all races, cultures, geographic areas and income levels, especially low-income and minority communities
  – Strengthen outreach to local communities
  – Work to meet air quality standards and reduce health risks from toxic air contaminants
ARB’s Diesel Control Program

- Trash trucks
- Public fleets
- Construction and industrial equipment
- Diesel trucks (Fall 2008)
- Stationary engines/agricultural engines
- Cargo-handling equipment
- Shore-side power for ships in port
- Reduced ship speeds
- Harbor craft
- Incentives – Moyer and Prop 1B
Other ARB Air Toxic Programs

• Chrome platers
What Is AB 32?

• Legislation outlining plan to reduce GHGs
• Codifies 2020 GHG limit at 1990 level
  – Acknowledges that 2020 is not the endpoint
• ARB to monitor/regulate GHG sources
• Creates Environmental Justice Committee
• Air Resources Board lead, but extensive collaboration with other agencies

Large new effort, but must not detract from ARB’s health-based programs
California GHG Emissions

- Transportation, 38%
- Electricity, 23%
- Industry, 20%
- Recycling and Waste, 1%
- Agriculture, 6%
- High GWP, 3%
- Commercial and Residential, 9%

**Magnitude of the Challenge**

ARB Emissions Inventory

<table>
<thead>
<tr>
<th>Year</th>
<th>Million Metric Tons (CO₂ Equivalent)</th>
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</thead>
<tbody>
<tr>
<td>1990</td>
<td>~173 MMT CO₂e Reduction</td>
</tr>
<tr>
<td>2000</td>
<td></td>
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<tr>
<td>2004</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>80% Reduction ~341 MMT CO₂e</td>
</tr>
<tr>
<td>2050</td>
<td></td>
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</tbody>
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1990 Emission Baseline
AB 32 Timeline

2007
- Publish list of early actions

2008
- Mandatory reporting & 1990 Baseline

2009
- Adopt Scoping Plan 11/08
  - Publish scoping plan

2010
- Adopt enforceable early action regulations
  - GHG reduction measures adopted

2011
- GHG reduction measures operative

2012
- Identification/implementation of further emission reduction strategies

2020
- Reduce GHG emissions to 1990 levels
Accomplished in 2007

• Set 2020 emission cap at 427 MMT
• Adopted Mandatory Reporting Requirement for major GHG Emitters
• Approval to go ahead with early action items
  – Low Carbon Fuel, Auto Refrigerants, Landfill Gas, Truck Efficiency, Semiconductor Perfluorocarbons, Can Propellants, Tire Inflation, and others
• Forests Protocols – methods to measure amount of GHGs stored in forests
• Adopted port electrification regulation
Scoping Plan

• Describes how California will reduce GHG emission levels to 1990 levels by 2020
  – Address every sector of the economy
• Provides a vision for a low carbon future - 2020 and 2050
• Maximize benefits to California
  – Criteria and toxic air pollutants reductions
  – Economic development (greentech)
• Must assess economic, environmental, public health and societal impacts in Plan
Required Evaluations

• **Scoping Plan** (§38561(d))
  – Economic and non-economic costs and benefits to economy, environment and public health

• **Regulations** (§38562(b))
  – No disproportionate impact on low-income communities; complement efforts to achieve AQ standards and reduce toxics; consider overall societal benefits

• **Market-Based Compliance** (§38570(b))
  – Consider direct, indirect, and cumulative impacts including localized impacts; prevent increase in toxics or criteria pollutants

• **Community Benefit Section** (§38565)
Scoping Plan Measures

- “Core” reductions – about 60% of tons
  - Car standards, low carbon fuel standard, land use, energy efficiency, renewable portfolio standard
- Options for remaining tons
  - Direct regulations
  - Cap and trade program
  - Carbon fees
- Expect positive overall impact on co-pollutants
  - Efficiency and reduced fuel use
Scoping Plan Evaluations

- Will be available Summer 2008
  - Workshop in August to discuss
- Energy modeling
  - Energy production and use, energy prices, fuel diversity
- Economic modeling
  - Impact on state economy, personal income (by household income), employment, prices
Scoping Plan Evaluations (cont.)

- Environmental evaluation
  - Impact of Draft Plan measures on co-pollutants
  - Comparison of three options
  - Case study?
- Public Health Evaluation
  - Based on environmental evaluation
  - Comparison of three options
- Societal Impacts
  - Fuel diversity
  - Mobility
  - Community benefit section
Scoping Plan Timeline

• Draft Scoping Plan release: June 26
• Public workshops
  – July 8: Diamond Bar
  – July 14: Fresno
  – July 17: Sacramento
  – August: TBD
• Community meetings - being scheduled
• EJAC meeting: July 29
• Proposed Scoping Plan release: early Oct
• Board considers Proposed Plan: November
How Else Can You Get Involved?

• Community benefit stakeholder workgroup
• Website:
  – http://www.arb.ca.gov/cc/cc.htm
• Contact us directly:
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