AB 32: The California Global Warming Solutions Act of 2006

March 1, 2007
California Air Resources Board
Climate Impacts

California Projected Impacts

- 75% loss in snow pack
- 1-2 foot sea level rise
- 70 more extreme heat days/year
- 80% more ‘likely ozone’ days
- 55% more large forest fires
- Twice the drought years
California Climate Change Emissions

- Transportation: 41.2%
- Industrial: 22.8%
- Electric Power: 19.6%
- Agriculture & Forestry: 8.0%
- Others: 8.4%
The Magnitude of the Challenge

California’s GHG Emission Inventory

Source: March 2006 Climate Action Team Report
Sources of Potential Reductions (Million Metric Tons CO2 Equivalent)

- Vehicles and Fuels, 41.2
- Forestry, 33.2
- Building and Appliance Standards, 27
- Utility Energy Efficiency Programs, 21
- Smart Land Use/Improved Transportation, 27
- RPS, 14.2
- Other Utility, 19.1
- Waste Mgmt, 6
- Other, 17

Source: March 2006 Climate Action Team Report
• Reductions needed across many sources and sectors
• Will be multi-agency effort
  – Climate Action Plan
• Will be mix of near-term and long-term approaches
  – 2020 is not final endpoint
1/1/07: ARB maintains statewide inventory
6/30/07: List of discrete early actions
1/1/08: Mandatory reporting of emissions
         Adopt 1990 baseline/2020 target
1/1/09: Scoping plan of reduction strategies
1/1/10: Regulations to implement early action measures
1/1/11: Regulations to implement scoping plan
## Workflow—Scoping Plan Development

### Timeline

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### Source and Sector Analysis

- **2007**
  - Apr 07: Status Wkshp
  - Oct 07: Status Wkshp

### Identification of Reduction Measures

- **2007**
  - Apr 07: Draft Staff Report
  - Oct 07: Final Staff Report

### Development of Scoping Plan

- **2007**
  - Apr 07: Status Wkshp
  - Oct 07: Integration Wkshp
  - Feb 08: Workshops

- **2008**
  - Jul/Aug 08: Workshops

- **2009**
  - Jun 08: Board Hearing
  - Oct 08: BoardStaff Hearing
Coordination with Other Initiatives
Climate Action Team

• Many GHG reduction activities cut across agency boundaries
• Agencies other than ARB are lead for important components
• Climate Action Team will oversee coordinated effort
• Public meeting March 12, 2007 to discuss plan update
  – Coordinated with AB 32 timing
Joint Development of Electricity Sector Recommendations

• CPUC and CEC will jointly develop recommendations for AB 32 implementation for entire electricity sector (IOU, muni, other)
• CPUC Phase 2 Carbon Cap proceeding, conducted jointly with CEC, used as forum
• Recommendations will be integrated into broader economy-wide approach
• Timing consistent with ARB process
Market Advisory Committee

• Committee appointed
• First public meeting February 27
• Will provide recommendations to ARB by June 30
• ARB will review Committee input and consider as part of public process
• ARB responsible for program adoption
California Climate Action Registry

• ARB working closely with CCAR
  – Review of existing protocols
  – Development of new protocols
  – Consultation on reporting issues

• Multi-state registry
  – Multi-state effort underway
  – Active CCAR and ARB participation
Local Government Activities

• Local governments showing climate leadership
• ARB liaison working to build relationships
• Climate Action Team subgroup established to better define state/local interaction
  – Support for local activities
  – Guidance on possible reduction strategies
  – Quantification/accounting of reductions
Near Term Focus
Environmental Justice Advisory Committee

- Members nominated by environmental justice and community groups
- To advise ARB on scoping plan and other pertinent matters
- Membership approved at January 25, 2007 Board meeting
- First meeting TBD
Economic and Technology Advancement Advisory Committee

- Advise ARB on technology research and development opportunities
- Representation from stakeholder groups, academia, technology experts
- Membership approved at January 25, 2007 Board meeting
- First meeting March 1, 2007
• Board to publish list of discrete early action measures by June 30, 2007
• Board must adopt implementing regulations, to be enforceable by January 1, 2010
Early Action Measures—Milestones

• January 22, 2007
  – Workshop on criteria and proposed measures

• March 5-7, 2007
  – International Symposium on Near-Term Solutions

• March 12, 2007
  – Climate Action Team public meeting
Early Action Measures—Milestones

- April 2007
  - Public workshop on draft staff proposal
- May 2007
  - Staff proposal released
- June 2007
  - Board meeting
- January 2010
  - Regulations enforceable
Recognition of Voluntary Action

- Identify opportunities for emission reductions from all verifiable and enforceable voluntary actions, including carbon sequestration projects and best management practices.
- Ensure that entities that have voluntarily reduced emissions receive appropriate credit.
Recognition of Voluntary Action

- Adopt methodologies for quantification of voluntary emission reductions
- Adopt regulations to verify and enforce any voluntary emission reductions to comply with GHG emission limits
Recognition of Voluntary Action—Milestones

• May 2007
  – Initial workshop on framework for treatment of voluntary activities
• Summer-Fall 2007
  – Agreement on framework, begin work on near-term actions
• February 2008
  – Workshop to integrate applicable longer-term actions into scoping plan
Implementation

• Assembling team (existing and new staff hires, external experts)
• Open, transparent process
• Intensive consultation
  – Cal/EPA, Climate Action Team
  – Advisory Committees
  – National and international experts
  – Stakeholders
Contacts and More Information

• ARB Climate Change Web Site
  – http://www.arb.ca.gov/cc/cc.htm
  – Stay informed - sign up for list serve
• California Climate Change Portal
  – http://climatechange.ca.gov
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