



AB 32 Climate Change Scoping Plan Implementation Update

April 22, 2010

California Air Resources Board

Outline

- Progress and actions on Scoping Plan measures since last update
- Preview of upcoming milestones
- Overview of activities and coordination that support AB 32 implementation

Approved Measures To Date

- 14 of 30 ARB regulations approved, including all nine Discrete Early Actions
- Approved measures provide approximately 78 MMTCO₂e in 2020
 - Almost 50% of our 2020 goal of reducing 169 MMTCO₂e

Regulatory Measures Approved Since Last Update

- High GWP Refrigerant Management Program for Stationary Sources (Approved December 2009)
- Sulfur Hexafluoride Emission Reductions from the Electricity Sector and Particle Accelerators (Approved February 2010)

State and Federal Climate Activity

- Climate Action Team (CAT) subgroups preparing near-term implementation plans
- U.S. EPA
 - Finalized light-duty vehicle standards
 - Finalized “Johnson Memo” on timing of GHG regulations
 - Finalized federal Mandatory Reporting Regulation
- Federal Legislation
 - Kerry-Graham-Lieberman climate change concept paper to be released later this month

Upcoming ARB Activities

- Renewable Electricity Standard – July
- SB 375 Regional Targets – Sept
- Commercial Recycling – Oct
- Cap and Trade – Oct
- Advanced Clean Cars – Fall



Cap-and-Trade Regulation

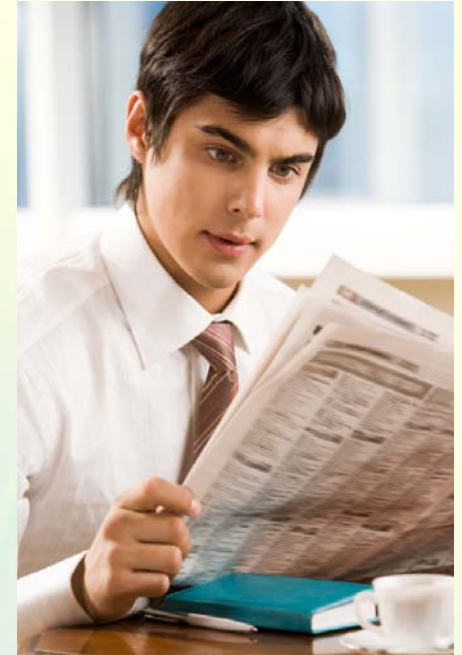
- November 2009: Preliminary draft regulation
- Developing next draft of regulation
- Included Elements
 - Program design
 - Revisions to mandatory reporting requirements
 - Offset protocols development
 - Technical analyses to identify potential environmental, health, and economic impacts
- Final draft regulation to Board later this year

Updated Economic Analysis

- Worked closely with EAAC and stakeholders
- Report released in March 2010
- Feedback forum yesterday as part of April Board Meeting
- Greenhouse gas mitigation regulations

Good News

- California is on track to a low carbon economy
 - Venture capital investment in clean technology
 - Growth in green business
 - Increase in green jobs
 - Increase in renewable energy generation capacity



Activities to Support AB 32 Implementation

- ARRA funding for energy efficiency and climate planning actions
- Green economy, job creation and workforce development
- Small business success and outreach
- Local government tools/guidance

ARRA Funding also Provides GHG Emission Reductions

- Over \$800 million – Building energy projects in California
- Energy Efficiency Block Grants
- State Energy Program
- Weatherization funding



Source: EECBG Worksheet at: <http://www.energy.ca.gov/recovery/>

Green Economy and Job Creation

- Jobs created throughout the state
 - Solar
 - Biofuels
- Governor's California Jobs Initiative



Green Jobs Require a Trained Workforce

- ARB participates on Green Collar Jobs Council
- Clean Energy Workforce Training Program
 - \$27 million to 34 workforce development partnerships
- Regional Industry Clusters of Opportunity Grants
 - \$6 million for regional training
- State Energy Sector Partnership and Training Grants
 - \$2.5 million to 10 workforce investment areas

Small Business Success and Outreach

- Governor's Office of Economic Development
- Small business "Cool California" awards
- Small business successes and case studies
- Small business workshops
- Cool California 'Toolkit' promotion through upcoming outreach campaign



Energy Makeover for Businesses in Lennox

- Collaborative effort to help businesses and residents reduce energy use
- Install energy and water conservation resources in more than 90 businesses
- Expected energy savings of 15%-20%

Small Business Success Stories

- Old Town Trolley Tours - San Diego
 - Recycling
 - Green team – public education
 - Fleet modification
 - Facility lighting
 - 306.5 tons/year CO₂e savings
 - Savings - \$1,440/year



Small Business Success Stories (continued)

- Savory & Sweet Catering – Sunnyvale
 - Fleet efficiency
 - Energy and water conservation
 - Recycling
 - Annual savings:
 - 12% on fuel costs
 - 10% on electricity



Local Government Tools and Guidance

- Climate action planning tools
 - Municipal GHG emissions inventory
 - CAP decision support
 - Funding wizard
- Partnering on climate planning projects
 - Strategic Growth Council – Planning Grants
 - US EPA/OPR - Smart Growth Grant
 - Dept. of Conservation – Emerald Cities
- Success story: Sonoma County



Conclusion

- Almost half of reductions to meet 2020 goal approved
- Board to consider major regulations in upcoming months
- Make sure California is ready for transition to low carbon economy
- California's program a model for the region, the nation, and the world