

# **Greenhouse Gas Mandatory Emissions Reporting**



**Public Workshop to  
Discuss Reporting  
Greenhouse Gas  
Emissions  
and Establishing  
the 1990 Emissions Level**

**December 1, 2006  
Sacramento**

# Overview

- AB 32 Reporting Requirements
- Goals and Preliminary Thoughts on Program Structure
- Common Elements in GHG Reporting Programs
- Next Steps and Schedule

# AB 32 Requirements Reporting



# AB 32 Reporting Requirements

- Mandatory GHG reporting regulation due by January 1, 2008
- Start with sources that contribute most to California GHG emissions
- Gases include:
  - Carbon Dioxide (CO<sub>2</sub>)
  - Methane (CH<sub>4</sub>)
  - Nitrous Oxide (N<sub>2</sub>O)
  - Hydrofluorocarbons (HFCs)
  - Perfluorocarbons (PFCs)
  - Sulfur hexafluoride (SF<sub>6</sub>)

# **AB 32 Reporting Requirements (continued)**

- Annual reporting
- Provide reporting tools and standardized formats
- Ensure rigorous and consistent accounting of emissions
- Where appropriate, incorporate standards and protocols developed by the California Climate Action Registry

# Goals and Preliminary Ideas on Program Structure



# Reporting Goals

- Harmonize with other programs
  - National and International
- Build on the work the California Registry has already done
- Learn from what has already been done elsewhere
- Support ARB regulatory and market efforts
- Ensure program is developed in an open and transparent process

# Major Reporting Components

## Three Key Components:

1. Mandatory Reporting Regulation
2. GHG Emission Calculation Protocols
3. Certification and Verification Process

# Mandatory Reporting Regulation Elements

- Key elements to be included in a mandatory reporting regulation include:
  - Who must report
  - How to define the reporting entity
  - What GHGs need to be quantified
  - Direct and indirect emissions reporting
  - When the report is due
  - What time period is to be covered
  - Baseline emissions

# **GHG Emissions Calculation Protocols**

- Reporting protocols (methodologies) provide guidance and promote consistency
- ARB will work with stakeholders to review and approve key existing protocols over the next year
- Working with stakeholders, we will prioritize, develop, review, and adopt additional protocols over time

# Existing California Registry Protocols for Review

- Electric power generation, transmission, and distribution
- Cement manufacture process emissions
- Forest carbon stocks & emissions
- General reporting protocol sectors
  - Indirect electricity, steam, heating, and cooling emissions
  - Direct mobile combustion emissions
  - Direct stationary combustion emissions
  - Direct emissions from manufacturing
  - Direct fugitive emissions

# Other Resources for Protocols and Methods

- World Resources Institute
- Intergovernmental Panel on Climate Change
- U.S. EPA, U.S. DOE (1605b)
- United Kingdom, European Union, Australia, other countries

# Certification and Verification

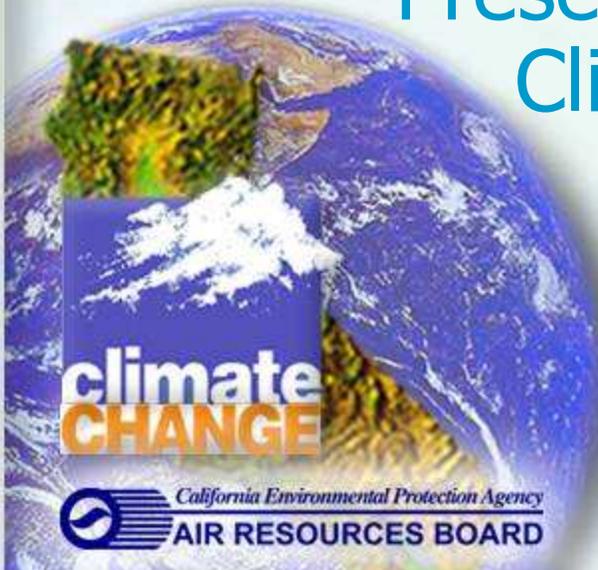
- Certification is used to ensure reported GHG emissions data meet minimum standards and comply with approved procedures and protocols
- Certification provides an independent review of data
- Other reporting programs use third-party independent and approved “certifiers”
- With stakeholders, the ARB will develop GHG inventory certification procedures

# Some Key Questions for Future Workshops

- What sources should be included for the first round of reporting?
- When will the first reporting be required?
- How will facilities be phased in?
- How will indirect emissions be handled?
- How will verification be performed?

# Common Elements in Greenhouse Gas Reporting Programs

Presentation by the California  
Climate Action Registry



# Next Steps and Schedule



# Next Steps

- Begin development of mandatory reporting regulation
- Review of existing California Climate Action Registry Protocols
- Develop Oil and Gas Protocol
- Identify additional protocols for development
- Continue to engage other reporting and inventory programs for lessons learned (UK, CA Registry, RGGI, IPCC, EPA, etc.)

# Proposed Schedule

- **Early 2007**
  - Identify significant GHG sources and sources for which reporting will be required in the first round
  - Review existing protocols
  - Public workshops and workgroup meetings
- **Spring/Summer 2007**
  - Work on modifying and preparing protocols
  - Ongoing workshops for all aspects of program
- **December 2007**
  - Board consideration of Mandatory Reporting Regulation in a public hearing

# Public Process

## Your Input Is Needed

- Establish workgroups
  - Mandatory Reporting Regulation
  - Workgroups for each protocol review or development
- Open, transparent process
- Intensive engagement
  - State agencies
  - California Climate Action Team
  - National and international experts
  - Environmental organizations
  - Industry
  - Environmental justice community
  - Extensive slate of stakeholders

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