

Determination of the 1990 Emissions Level and Establishment of the 2020 Emissions Limit



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

**December 1, 2006
Sacramento**

Overview

- AB 32 Requirements
- Goals
- GHG Emissions Inventory
- Determining the 1990 Emissions Level and 2020 Emissions Limit
- Proposed Schedule and Next Steps

AB32 Requirements



AB32 Requirements

- By January 1, 2008, the ARB shall:
 - Determine the 1990 statewide, aggregated greenhouse gas (GHG) emission levels using the best available scientific, technological, and economic information
 - Establish 2020 statewide GHG emissions limit equivalent to the 1990 level
 - Conduct public workshops and provide opportunity for comment during all phases of the process

Goals



Goals for GHG Emissions Inventory and Establishment of 2020 Emissions Limit

- Ensure that inventory is comprehensive and meets current and future program needs
- Establish statewide, aggregate 1990 emissions level and 2020 target that meets the requirements of AB32

The background features a stylized, semi-transparent image of the Earth with a grid of latitude and longitude lines. A horizontal blue bar with a white, cloud-like pattern is positioned at the top. The overall color palette is light blue and green.

GHG Emissions Inventory

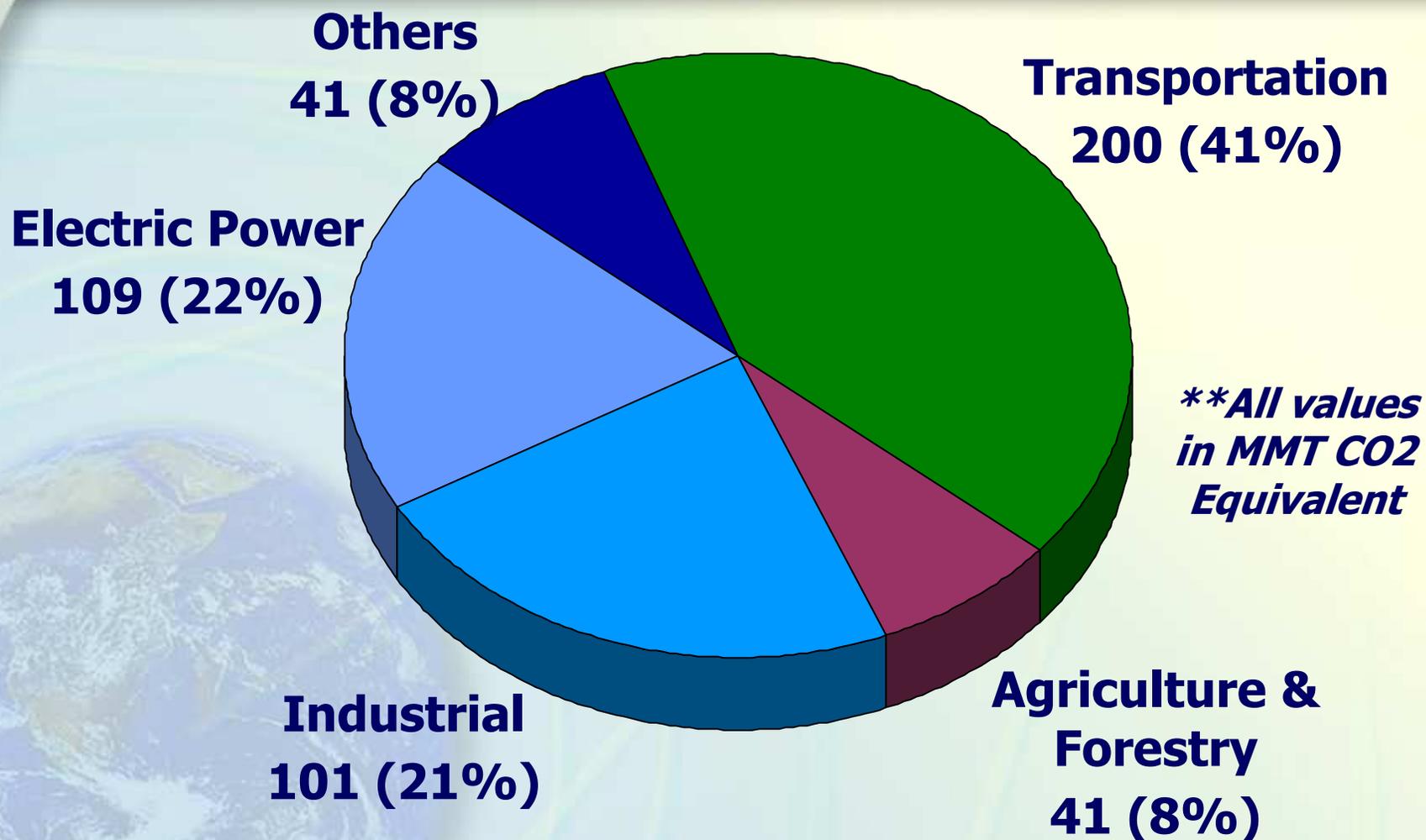
AB1803 Requirement

- AB1803 transfers responsibility for preparing and updating California's GHG inventory to the ARB beginning January 1, 2007
- Requirement set forth "*...to streamline, consolidate, and unify the inventory of air emissions under one state agency...*"

Inventory Transfer

- October 2006: CEC completes update of California's GHG inventory
- November 2006: CEC Workshop 11/30/2006
- January 2007: GHG inventory responsibility transfers to ARB
- January 2007: ARB to post CEC GHG inventory to website

Sources of California's Climate Change Emissions in 2004



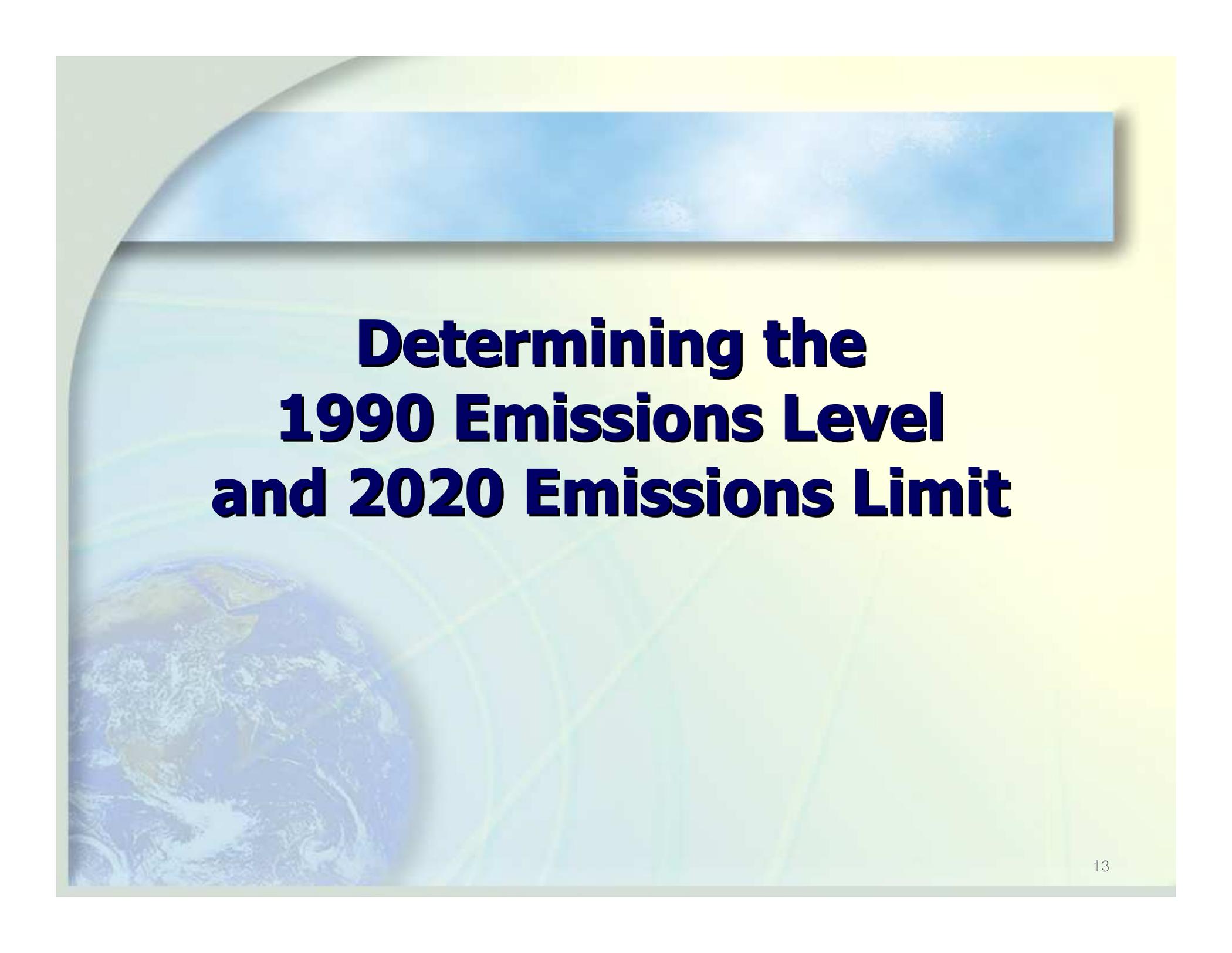
Source: California Energy Commission; Inventory of California Greenhouse Gas Emissions and Sinks: 1990 to 2004

Maintaining and Updating ARB's GHG Inventory

- Ensure inventory is transparent
- Harmonize inventory with other national and international GHG inventories
- Ensure accuracy, consistency, completeness, comparability, and transparency
- Update based on best available science

Key GHG Inventory Questions

- How will new data be collected (top down, bottom up)?
- How will the inventory be reconciled with mandatory reporting?
- How does the GHG inventory need to be structured to be consistent with other GHG inventories?
- How will the GHG inventory be used with the criteria inventory?
- How will sinks and sequestration be handled in the inventory?
- Others?

The background features a stylized globe with a grid of latitude and longitude lines, set against a light blue and green gradient. A horizontal blue bar with a white, cloud-like pattern is positioned at the top. The text is centered in a bold, dark blue font.

Determining the 1990 Emissions Level and 2020 Emissions Limit

1990 Emissions Level: Tracking California's Progress

- *1990 Emissions Level* refers to the statewide, aggregate GHG emissions used as a benchmark to track California's progress at reducing GHGs
- GHG reduction requirements for sectors or facilities are established separately from the 1990 level

2020 Statewide GHG Emissions Limit

- Equivalent to 1990 level
- Based on statewide, aggregate emissions estimate
- Not sector or facility-based
- Non-regulatory

1990 Emissions Limit Review and Evaluation Process

- Step 1: Review California's current estimate of the 1990 GHG emissions level from the CEC
- Step 2: Identify & implement potential inventory improvements
- Step 3: Submit 1990 emissions level estimate for ARB Board consideration as 2020 limit

Step 1: Review of California's Current Estimate of the 1990 Emissions Level

- Compiled by CEC using state and national-level data
- Includes emission estimates of CO₂, nitrous oxide, methane, and high global warming potential gases
- Primarily top-down approach

Step 2: Identify Potential Areas for Improvement

- Potential areas for improvement to 1990 Emissions Level:
 - Source categories
 - Emission factors & calculation methods
 - Data sources
 - Documentation
 - Others?

Step 3: ARB Board Consideration

- ARB Board hearing tentatively scheduled for December 2007:
 - Propose 1990 emissions level for consideration as 2020 limit
- Non-regulatory



Next Steps and Proposed Schedule

Next Steps

- Assume responsibility for California's GHG inventory (January 1, 2007)
- Begin review of the 1990 Emissions Level
 - Form Inventory Workgroup
 - Assess key categories, emission factors, data sources, documentation

Proposed Schedule

- **Early 2007**
 - ARB begins review of CEC GHG Emissions Inventory
 - Establish Workgroup
 - Review inventory and identify potential areas for improvement
 - Public workshops and workgroup meetings
- **Spring-Fall 2007**
 - Implement identified inventory improvements
 - Public workshops and workgroup meetings
- **December 2007**
 - Board consideration in a public hearing

Public Process

Your Input Is Needed

- Establish Workgroup
 - Initial Focus: 1990 Emissions Level and 2020 Emissions Limit
- 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

Contacts

Peggy Taricco – Chief
Emission Inventory Branch
ptaricco@arb.ca.gov
(916) 322-7959

Webster Tasat – Manager
Emission Inventory Systems
wtasat@arb.ca.gov
(916) 323-4950

Robert Jenne – Legal Counsel
Office of Legal Affairs
rjenne@arb.ca.gov
(916) 322-3762

Staff contacts for key categories will be published when available

ARB Climate Change Info.: www.arb.ca.gov/cc/cc.htm