

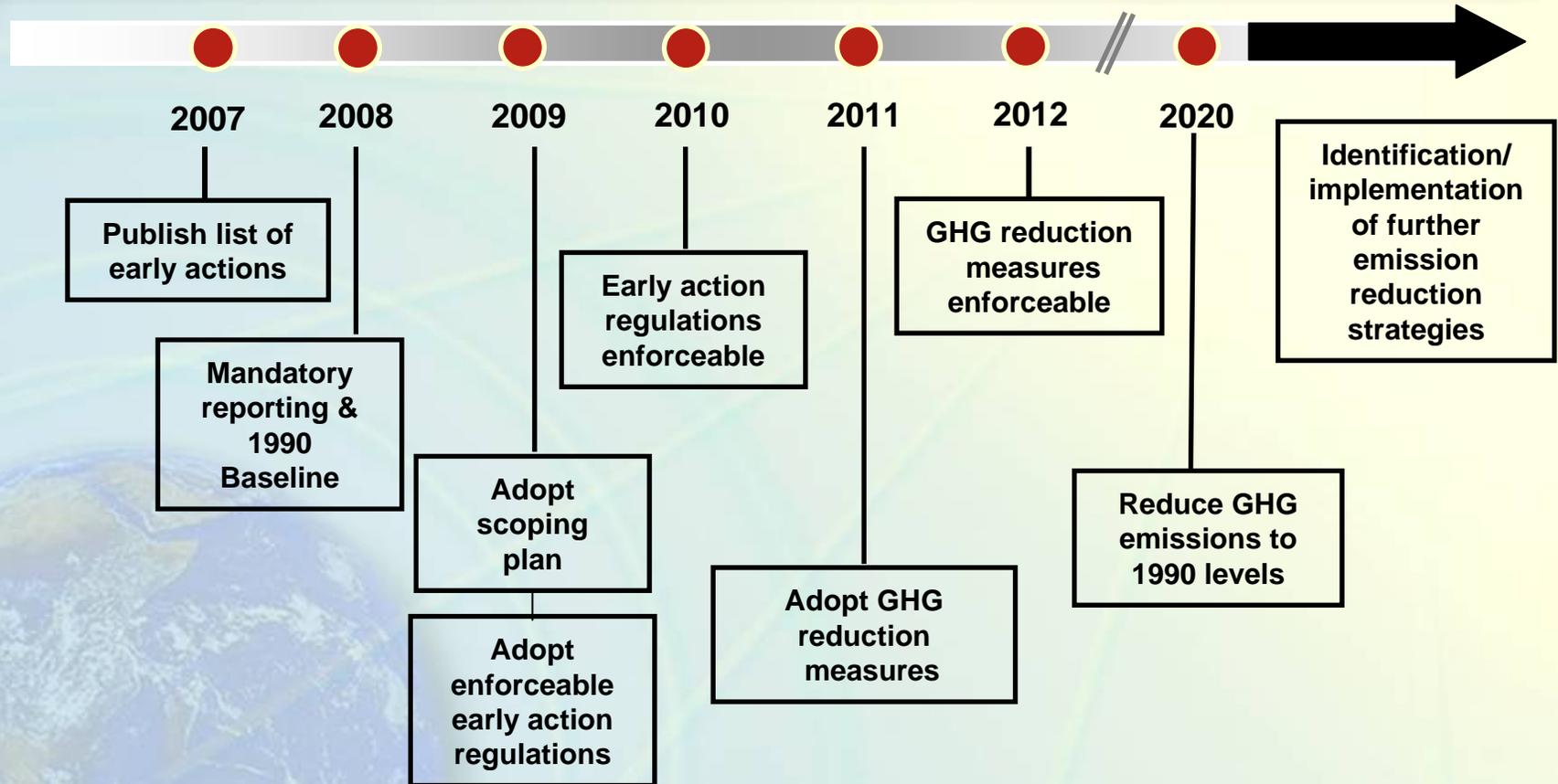
AB 32: The California Global Warming Solutions Act of 2006

California Water Plan Advisory Committee

March 20, 2008

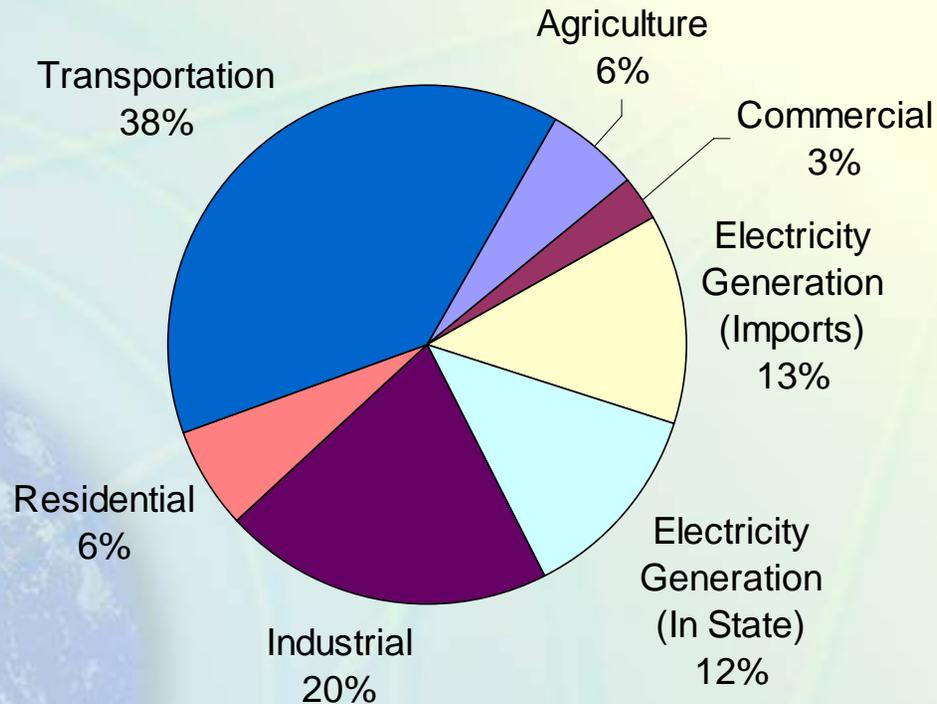
**Charles M. Shulock, Assistant Executive Officer
California Air Resources Board**

AB 32 Timeline



California GHG Emissions

2004 Emissions (480 MMT CO₂e)

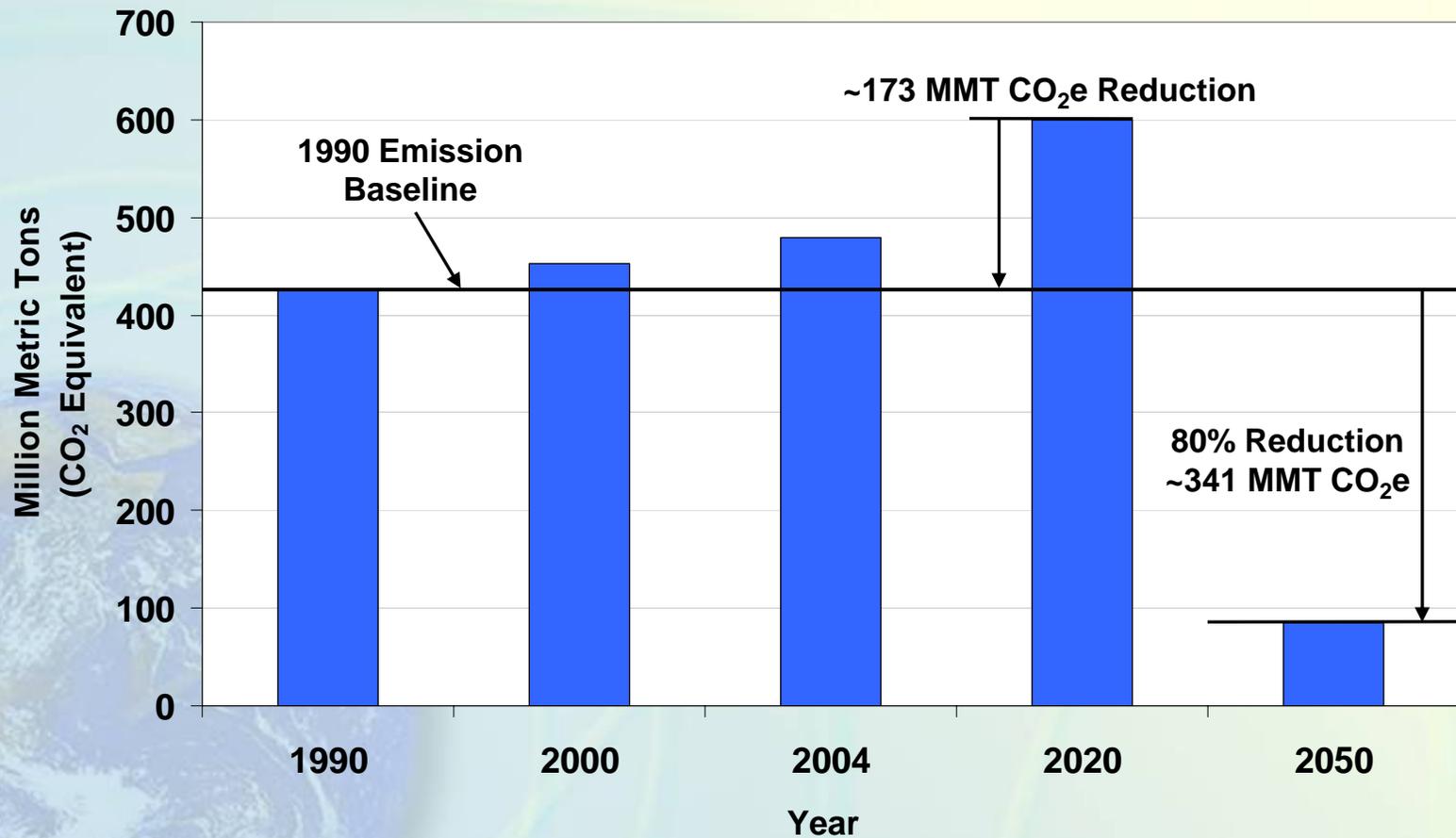


Water, Energy and GHG Emissions

- Approximately 19 percent of California's electricity demand and 32 percent of non-generation related natural gas demand is due to water use
- The CAT estimated that California's water-related emissions total about 44 MMTCO₂e
- Considerable interest in how this sector can help the State reduce its GHG emissions
- The Wet CAT is developing GHG emission reduction strategies and measures including
 - Reducing the energy intensity of water distribution and treatment systems
 - Increasing renewable energy associated with water

Magnitude of the Challenge

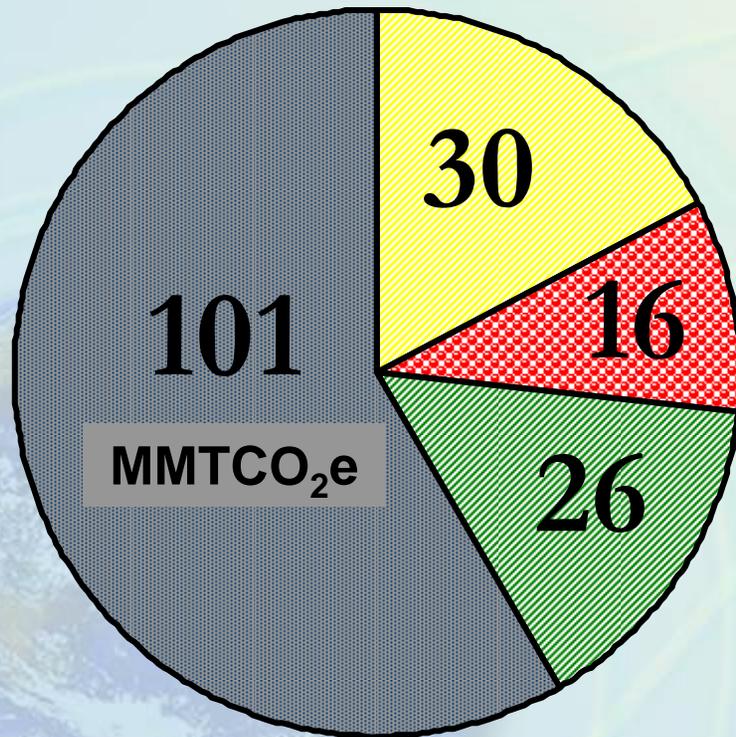
ARB Emissions Inventory



ARB 2020 Emission Reductions

Moving towards the 2020 Target

(Already Identified 72 of 173 MMTCO₂e)



- Adopted Regulations (AB 1493, Anti-Idling)
- Discrete Early Action Measures
- Other Early Actions
- Remaining Reductions (Scoping Plan, CAT)

What Is the Scoping Plan?

- California's plan, developed by ARB, to reduce the State's emissions to 1990 levels by 2020
- A vision for a low carbon future beyond 2020
- A model for other states, regions or nations
- A process to develop cost-effective GHG emission reductions
- A tool to identify economic benefits from improved efficiency and business creation
- An opportunity to provide co-benefits and additional reductions in criteria and toxic emissions

Who Is Developing the Scoping Plan?

- ARB is responsible for developing and approving the scoping plan
- ARB is working closely with Cal/EPA and the Climate Action Team subgroups
 - Technical evaluations performed by multi-agency teams, as necessary
 - Stakeholder outreach will be a joint effort with other state agencies
- Advisory groups (EJAC, ETAAC, MAC) providing recommendations

Who Else Is Involved?

- Climate Action Team subgroups
- Local air districts & other local government
- Industrial sources
- Transportation sources
- Environmental groups
- Community groups
- California Climate Action Registry
- Western Climate Initiative
- International organizations

Climate Action Team (CAT)

- Climate Action Team led by Cal/EPA
- Many GHG reduction activities cut across agency boundaries
- Agencies other than ARB are lead for important components
- CAT will oversee coordinated effort for implementing global warming emission reduction programs and report on progress

Climate Action Team Subgroups

- Agriculture
- Energy
- Forests
- Waste Management
- Water/Energy
- Green Buildings
- State Fleet
- Cement
- Land Use and Local Government
- Economics
- Scenario

Scoping Plan Public Process

- Stakeholder outreach
 - Public workshops to discuss plan development
 - November: scoping plan kick-off workshop (L.A.)
 - December: sector summary workshop (Sac.)
 - January: mechanisms workshop (Oakland)
 - April: scoping plan scenarios workshop (Sac.)
- CAT subgroup stakeholder meetings – ongoing
- Economic analysis technical workgroup – ongoing
- Program design technical workgroup – ongoing
- Community meetings – planned

2008 ARB GHG Activities

- ✓ Encourage voluntary early actions
 - AB 32 calls on ARB to encourage voluntary early actions
- Hold Scoping Plan scenarios workshop (April 17)
- Release draft Scoping Plan (June 20)
- Release final plan proposal (October 6)
- Hold board hearing on scoping plan (Nov. 20–21)

After the Scoping Plan - Next Steps

- ARB will update Scoping Plan every five years
- Integration with possible regional or federal greenhouse gas programs
- Enforcement
 - Scoping Plan commitments
 - Adopted regulations
- Accountability
 - State agency (CAT) first annual “report card” to legislature March 3, 2008