

Understanding AB32: Intent and Impact

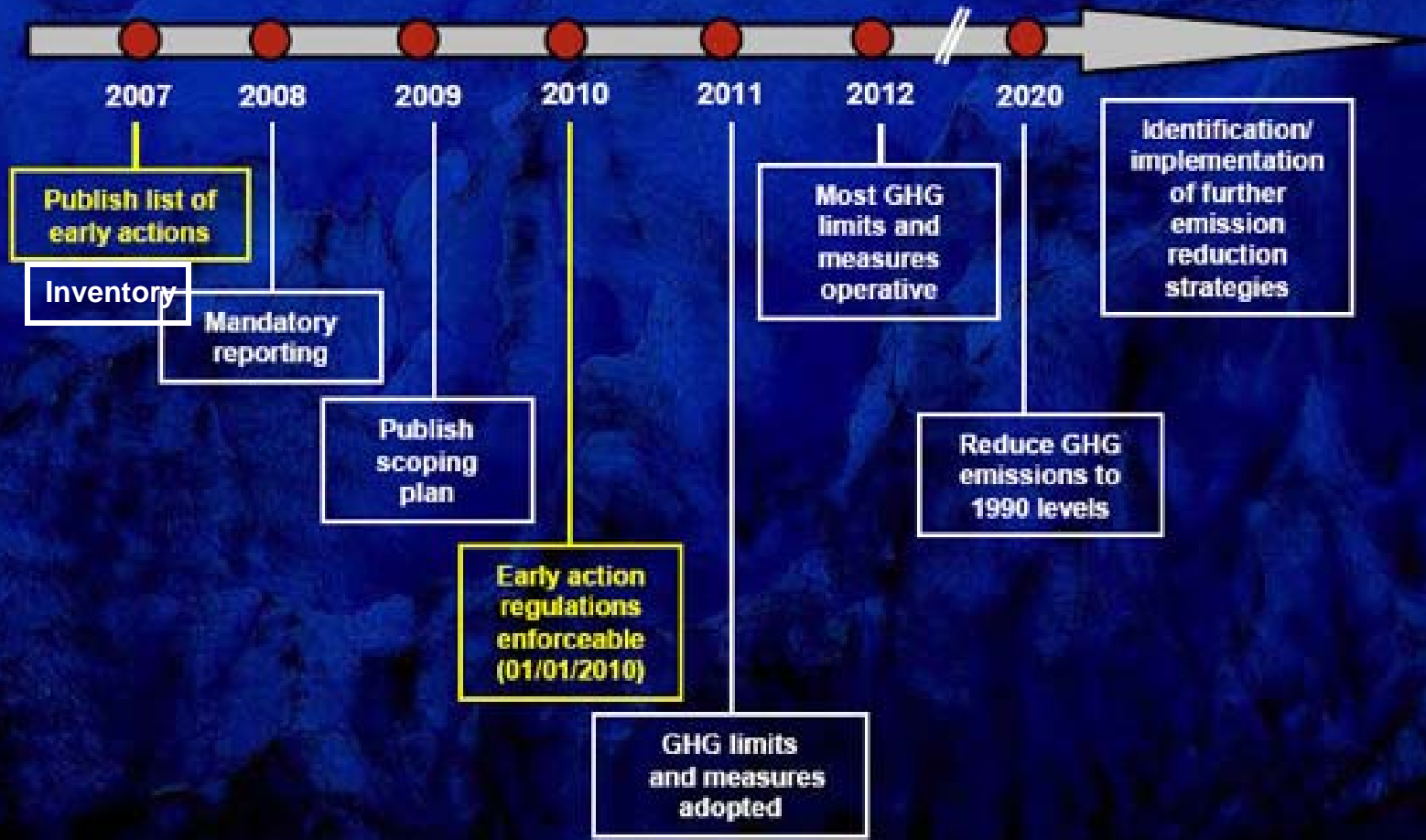
Municipal Landfills

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AB 32 Implementation



AB 32: California Global Warming Solutions Act

Early Action - Landfills:

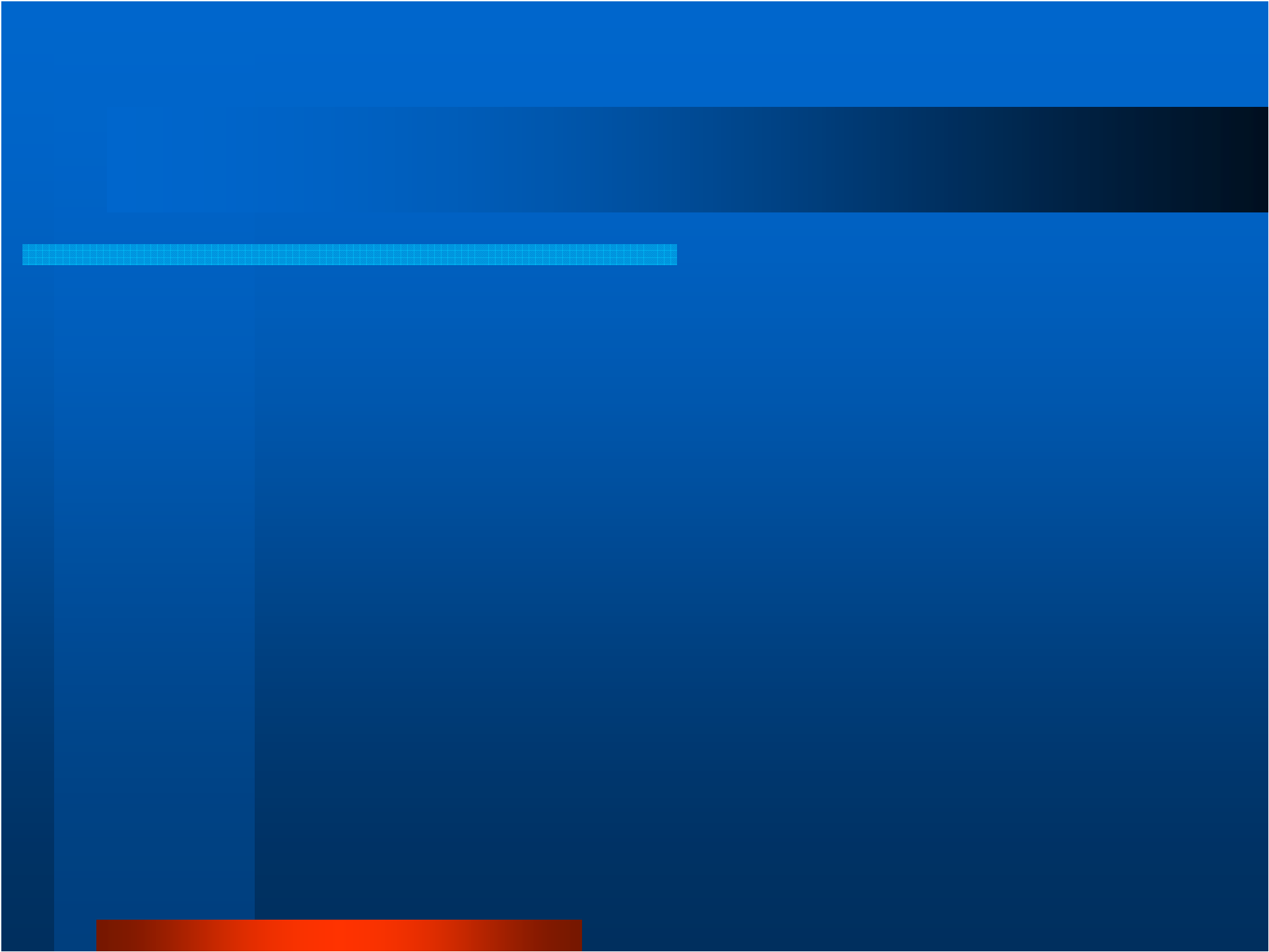
- **Proposed Early Action:**
 - **Address uncontrolled landfills (6% of waste in place in California)**
 - **Increased methane capture at active landfills**

AB32 – EARLY ACTIONS

- Landfill Methane Reduction Measure
 - May be a separate program from EPA NSPS and local district regulations
 - Will be significant additional effort (as proposed)
 - Proposed lower 500 ppm to 200 ppm threshold
 - More extensive surface monitoring
 - Monthly site inspections
 - Proposed leak check program
 - Proposed new reporting requirements

AB32 – EARLY ACTIONS

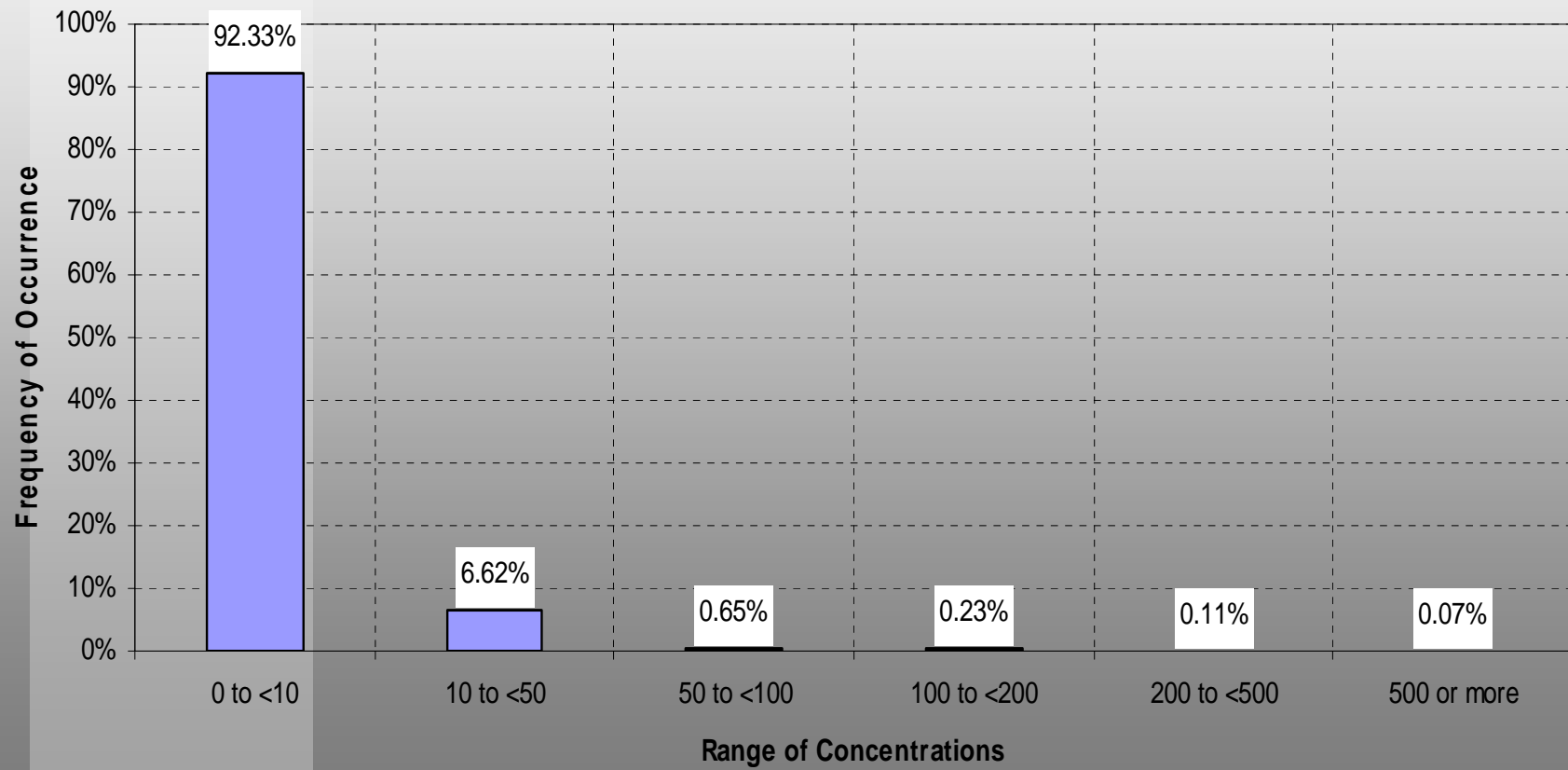
- Landfill methane reduction rule
 - Industry Proposal (*flexibility*)
 - Keep 200 ppm limit, or
 - 500 ppm plus monthly well monitoring
 - Program that mirrors SCAQMD Rule 1150.1
 - 500 ppm Instantaneous and 50 ppm Integrated
 - Industry fighting hard on this one, but something will happen
 - Early action
 - Very political
 - Mary Nichols!



Monitoring for Surface LFG



Puente Hills Landfill
Distribution of Instantaneous Surface Gas Concentrations
for Entire Year 2006



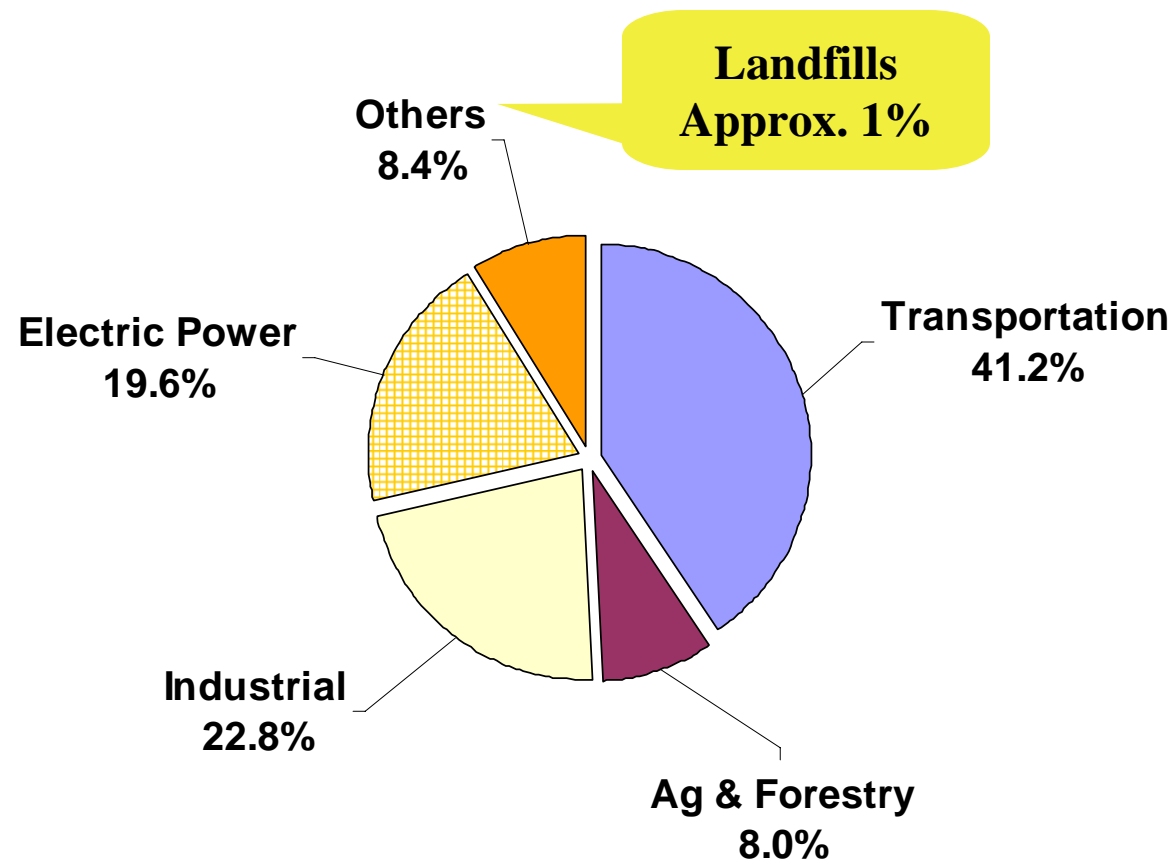
CARB Landfill Methane Reduction Measure - Cost

- At one site, \$4,800 per acre cost of 500 ppm to 200 ppm
- Most issues will be cover integrity (*cracks in the surface*)
- Significant increase in resources to tackle a small problem

CARB Landfill Methane Reduction Measure - Impacts

- **Potential Significant Air Intrusion**
- **Potential Underground Fires**
- **Reduced Methane Concentrations to Support LFG to Energy Projects.**

SOURCE OF CALIFORNIA GHG EMISSIONS

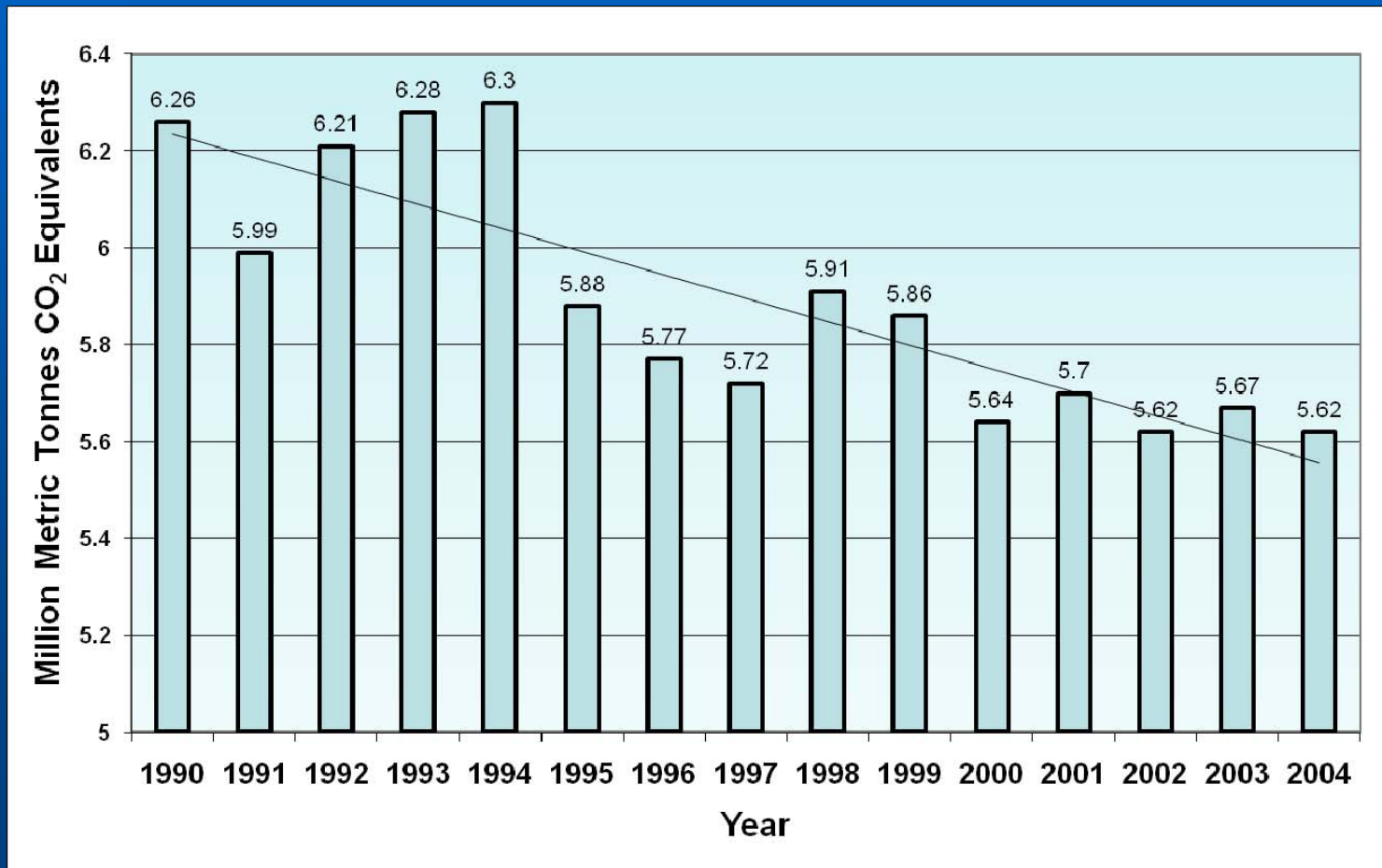


*expressed as CO₂ equiv.

Evolution of CA State Landfill GHG Inventory

Inventory	GHG (MMTCO ₂ eq/% Inventory)
2002 CEC	20.7 (6.0%)
2005 CCAT	20.7 (4.3%)
2005 CEC	9.9 (2.1%)
2006 CEC	8.0 (1.7%)
2007 CARB	5.64 (1.4%)

CA Landfill Industry GHG Emissions (CARB)



FUTURE?

- Scoping Plan – Phase II regulation
- Push for recycling, composting, organic diversion, under the umbrella of GHG control will impact landfills
 - Local Government and Community Reduction Requirements (*requirements of the Scoping Plan*)

Thank You and Questions

