

# Climate Action Plan

For San Francisco

Local Actions to Reduce Greenhouse Gas Emissions



San Francisco Department of the Environment • San Francisco Public Utilities Commission  
September 2004

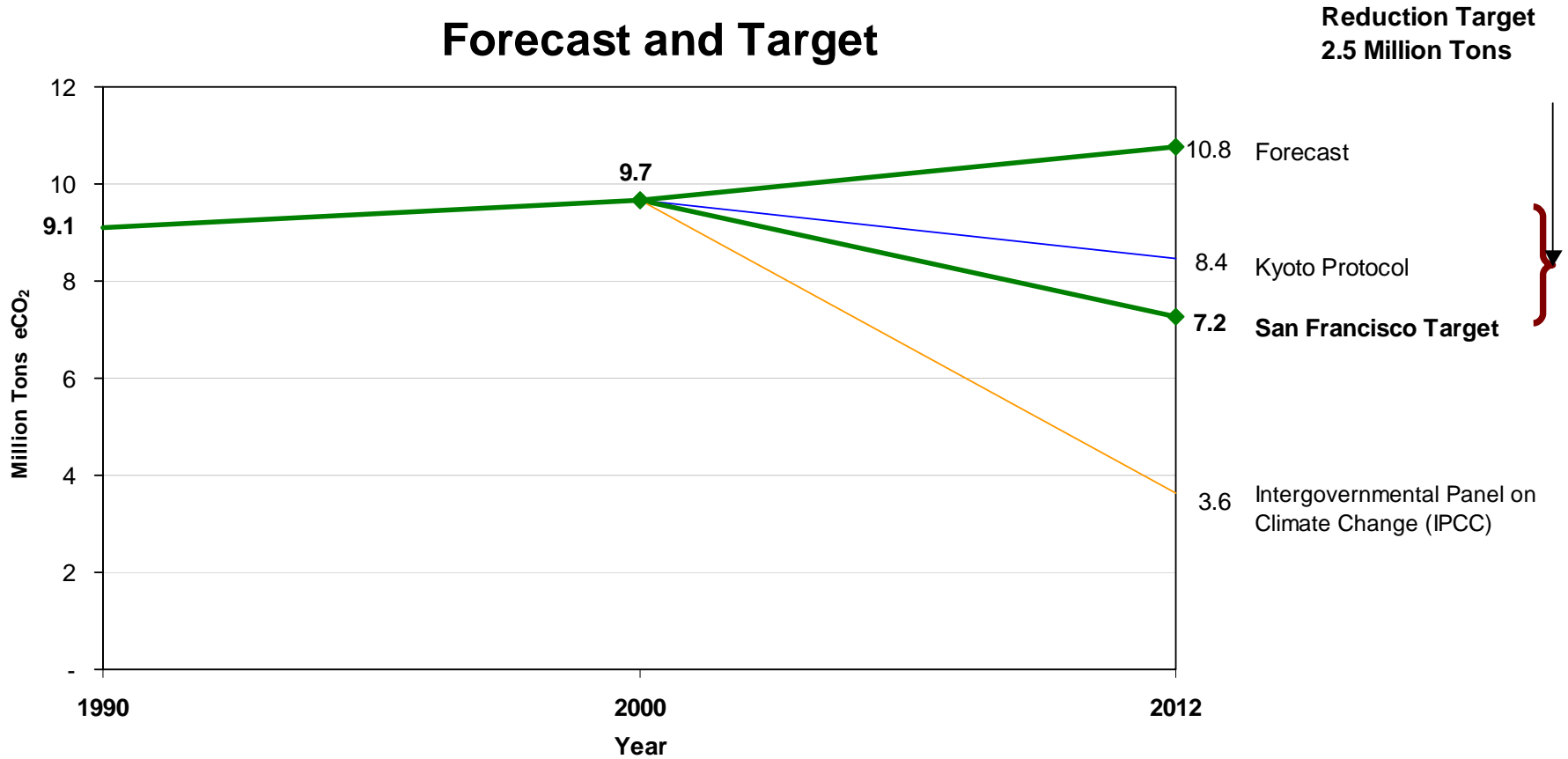
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*Climate Action Coordinator*



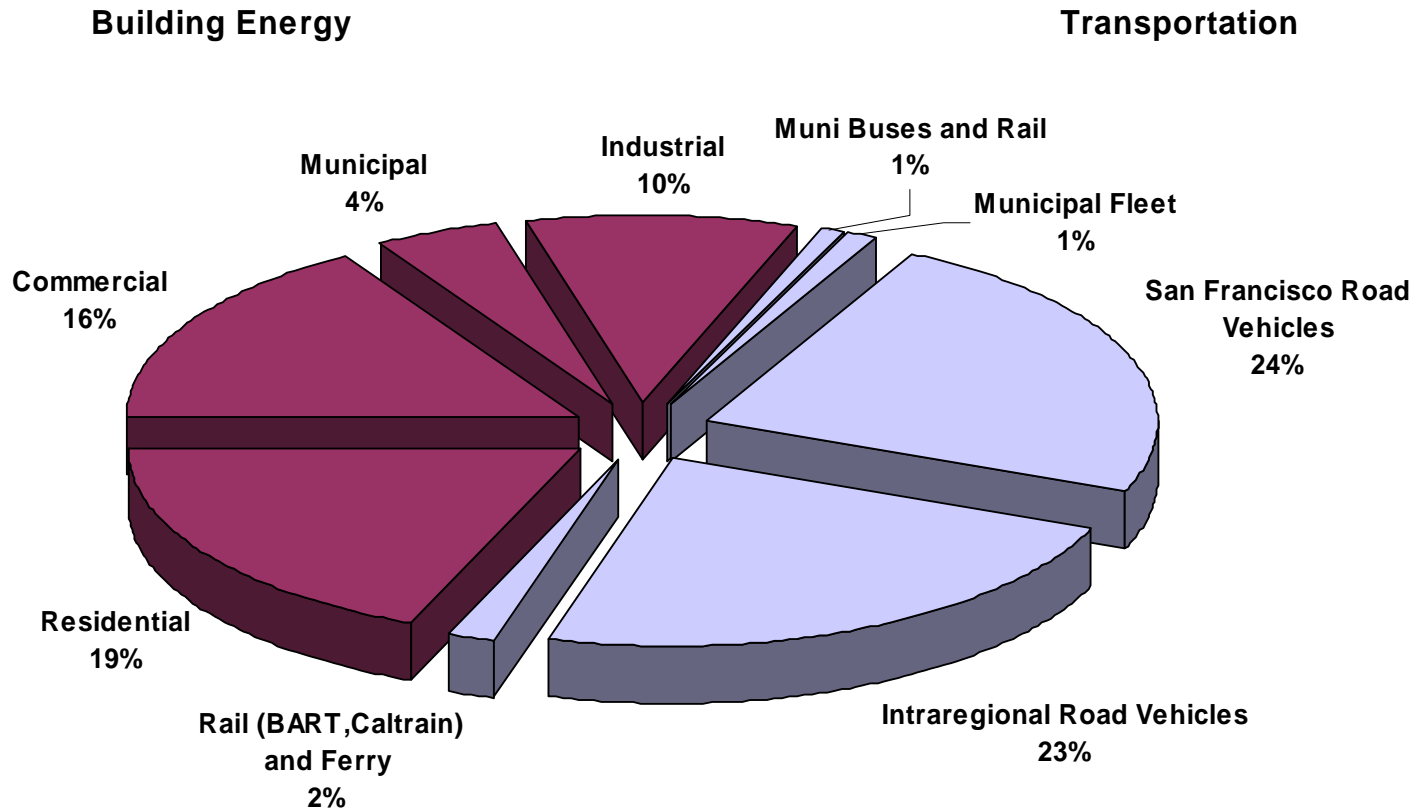
**SF**Environment

Our home. Our city. Our planet.

# San Francisco Greenhouse Gas Emissions Forecast and Target



# San Francisco Greenhouse Gas Emissions (eCO<sub>2</sub>) 1990



1990 Baseline Greenhouse Gas Emissions. Total = 9.1 million tons eCO<sub>2</sub> per year

Sources: PG&E, Hetch Hetchy Water and Power, CA. Dept of Transportation, MTC, Muni, BART.



# Transportation

963,000 tons

- Increase the Use of Public Transit
- Increase the Use of Ridesharing
- Facilitate Bicycling and Walking
- Support Trip Reduction Through Employer-Based Incentives
- Increase the Use of Clean Air Vehicles and Improve Fleet Efficiency



## Energy Efficiency

786,000 tons

- Incentives and Technical Assistance  
(e.g. PEP Program, 16 MW goal)
- Education and Outreach
- Legislation, Codes and Standards



# Renewable Energy

549,000 tons

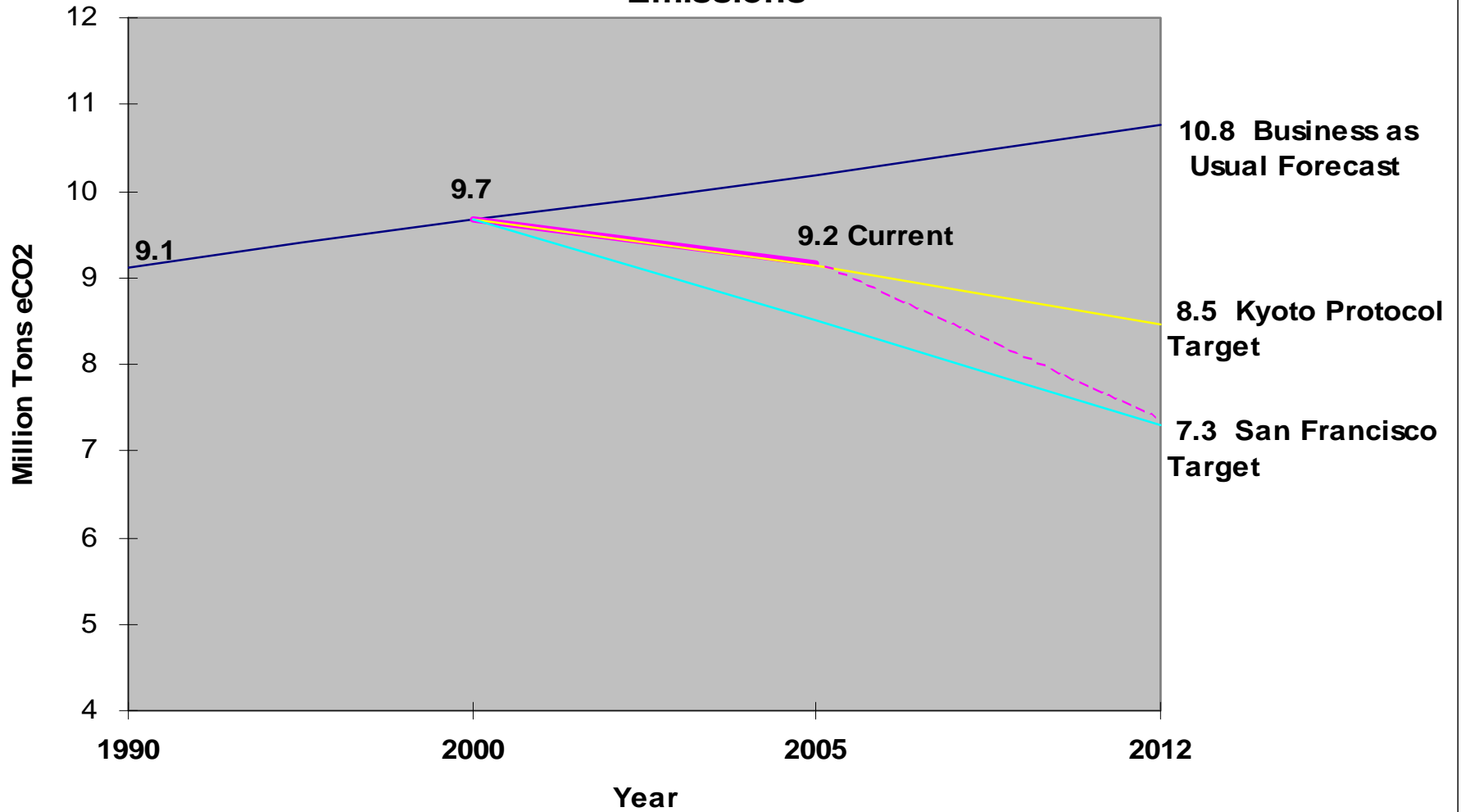
- Develop Renewable Energy Projects  
(e.g. Moscone Center 600 KW Solar PV project)
- Conduct Pilot Projects for Emerging Technologies (e.g. fuel cells, tidal)
- Support and Develop Green Power Purchasing



Solid Waste  
302,000 tons

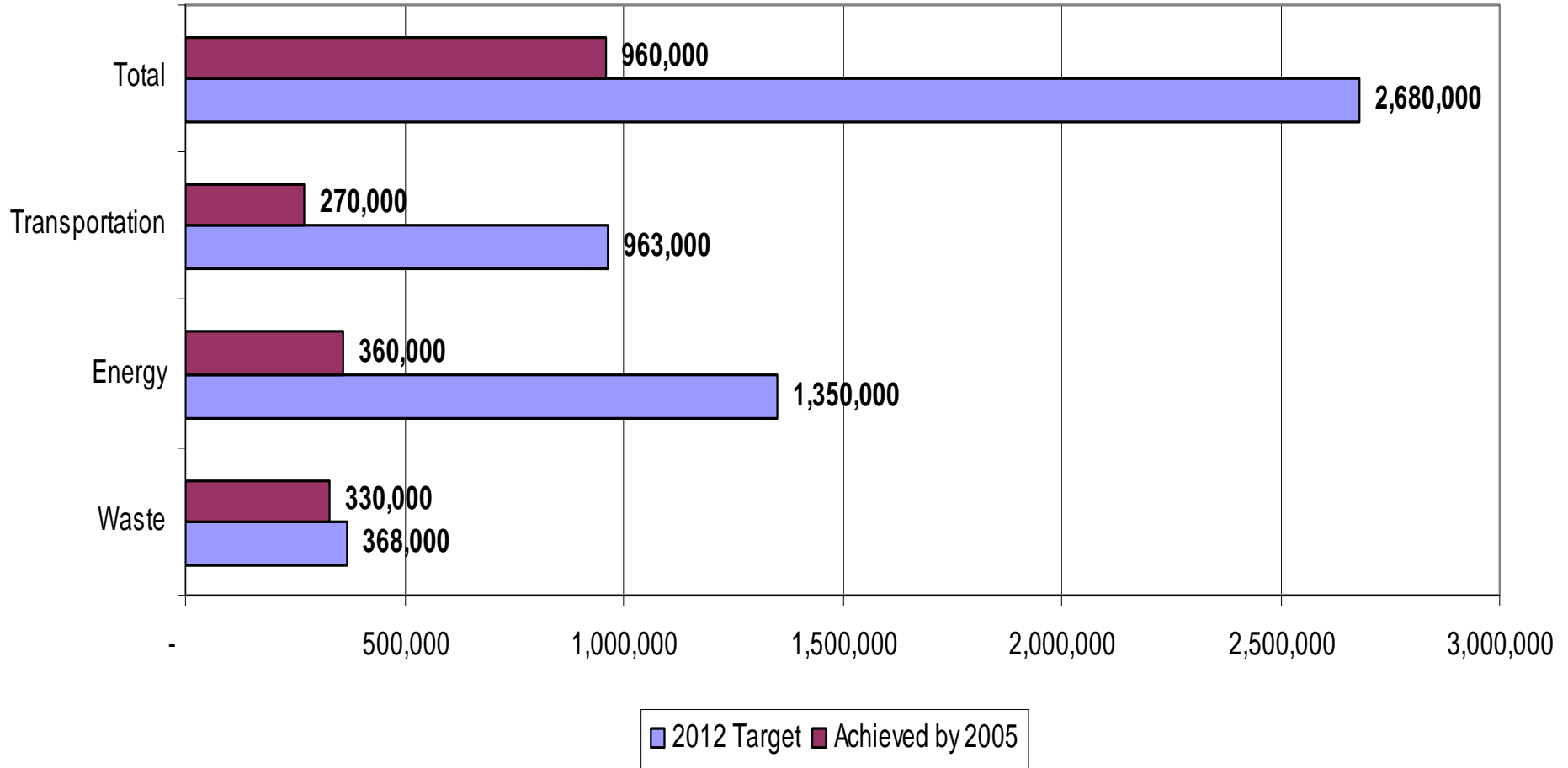
- Recycling and Composting
- Construction and Demolition Waste Recycling
- Source Reduction

# Greenhouse Gas Emissions Forecast, Targets and Current Emissions



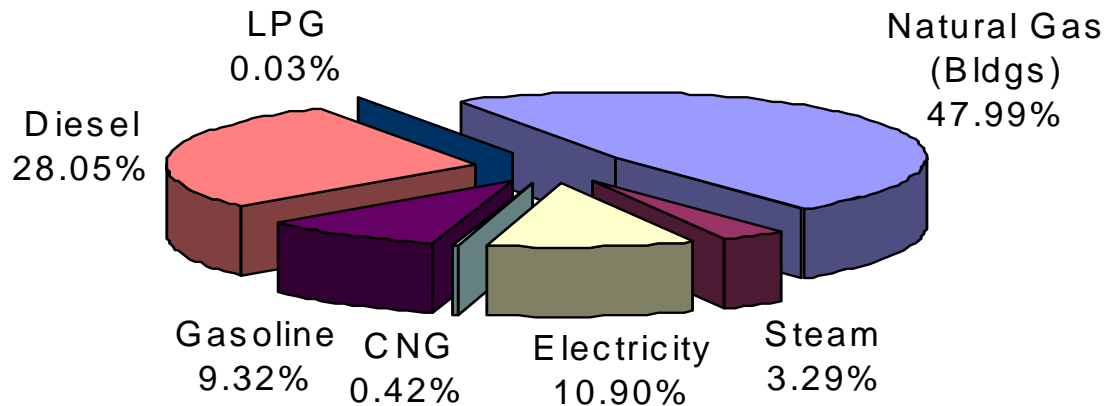


## Greenhouse Gas Reductions Below Business As Usual as of 2005 in Comparison to Climate Action Plan Reduction Goals by Area



# 6% of Emissions come from City Operations

**2005 Carbon Dioxide from CCSF Municipal Operations by Fuel (Total CO<sub>2</sub> = 213,898 Tonnes)**



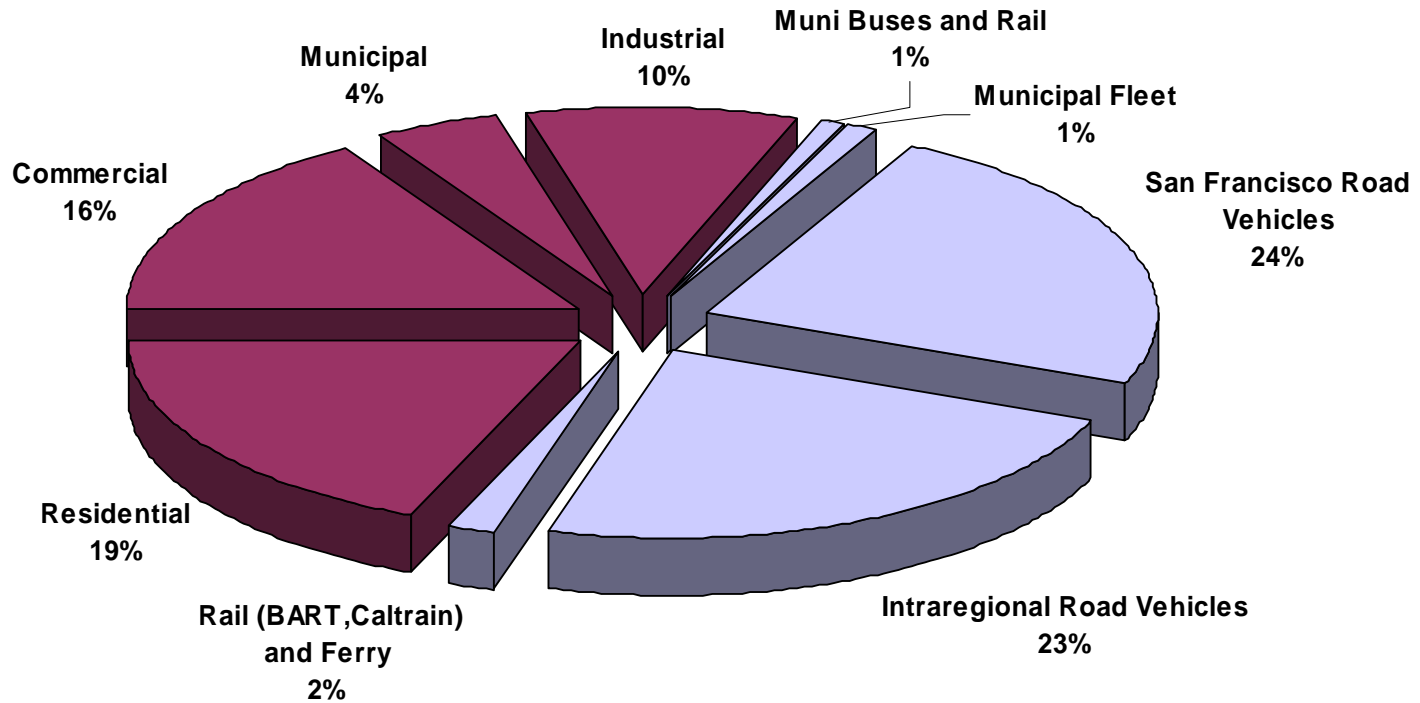
- 54 Department's have Climate Plans
- 20,000-60,000 employees
- Water, Waste Water, Electricity, Natural Gas, Liquid Fuels (gasoline, biodiesel, LPG, CNG, marine distillate) Waste, Trees
- *Last year the Fire Department Saved over \$50,000 in efficiencies identified through their CAP*



# Where do we go from here?

## Building Energy

## Transportation



1990 Baseline Greenhouse Gas Emissions. Total = 9.1 million tons eCO<sub>2</sub> per year  
Sources: PG&E, Hetch Hetchy Water and Power, CA. Dept of Transportation, MTC, Muni, BART.

# What is within our jurisdiction?

- Prop A. MTA
- AB32 Land Use and Transportation
  - SB375
  - CEQA GHG Thresholds
- Waste Emissions
- Natural Systems Sinks

DEMAND SIDE MANAGEMENT/SUPPLY SIDE PRESSURE

# How can we count it?

- ICLIE Model= No waste or land use transportation
- Urban Forestry?
- Wetlands?

# Systems-Based View of U.S. GHG Emissions 2006

EPA. 2008. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2006.

