City of Milpitas
Climate Action Plan

August 24, 2011

Workshop # 1

Agenda

- Introduction, workshop overview and purpose
- Project background
- An introduction to the project
- Small group activity
- Wrap up and next steps

Meeting Purpose

- Provide information about the Climate Action Plan (CAP) project
- Share information about the City's existing efforts to reduce GHG emissions
- Gauge the level of support or opposition for general issues to address in the CAP
- Gather information and feedback to inform our next steps

What is a Climate Action Plan?

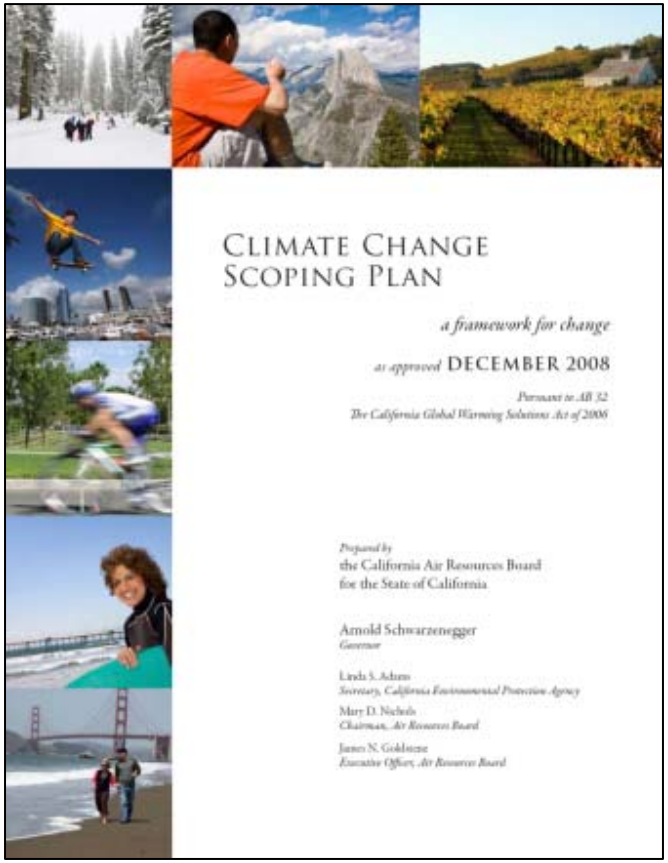
What is the CAP?

A roadmap that identifies how the City can reduce greenhouse gas emissions pursuant to AB 32:

- Identifies greenhouse gas emissions
- Sets a GHG reduction target
- Establishes policies and programs
  - *To reduce* (or mitigate) GHG emissions
  - Provides an implementation program

Why complete the CAP?

- New Bay Area Air Quality Management District CEQA Guidelines
  - Expedited development review
- Assembly Bill 32: The California Global Warming Solutions Act:
  - By 2020 reduce GHGs to 1990 levels
  - Local government equivalent is 15% reduction from current year by 2020
- SB 97: Revision to CEQA Guidelines


CLIMATE CHANGE
SCOPING PLAN

a framework for change

as approved DECEMBER 2008

Pursuant to AB 32
The California Global Warming Solutions Act of 2006

Prepared by
the California Air Resources Board
for the State of California

Arnold Schwarzenegger
Governor

Linda S. Adams
Secretary, California Environmental Protection Agency

Mary D. Nichols
Chairman, Air Resources Board

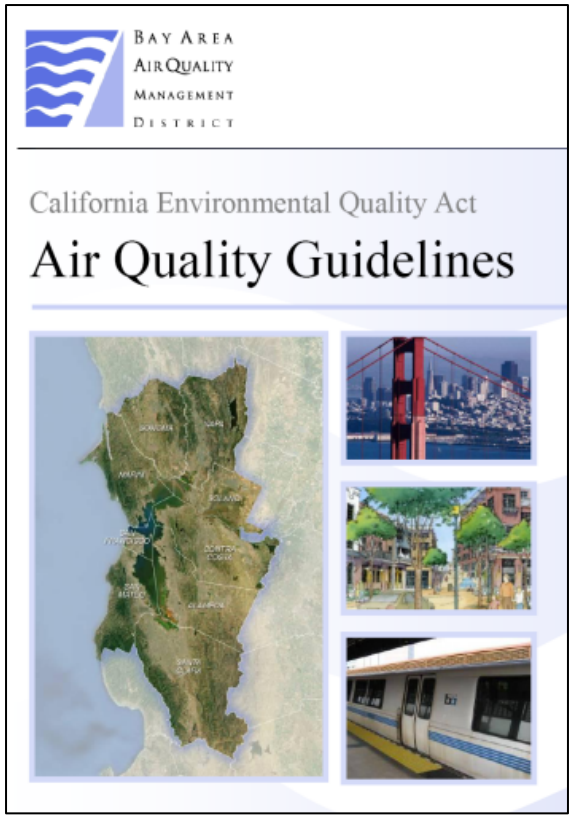
James N. Goldstene
Executive Officer, Air Resources Board

What does the CAP accomplish?

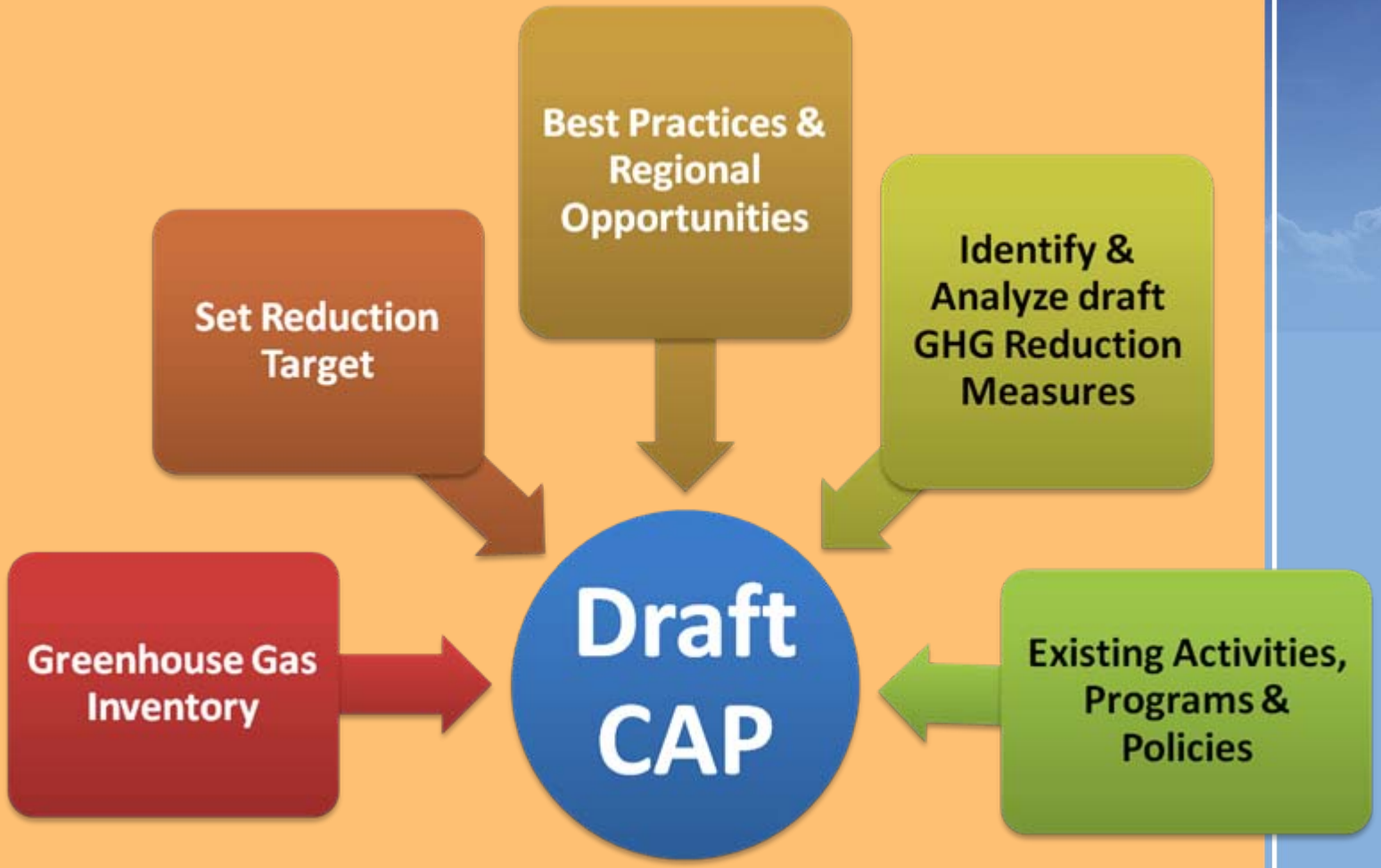
Responds to BAAQMD Guidelines for a "Qualified GHG Emissions Reduction Strategy."

Provides:

- Structure for on-going programs
- Environmental review
- Monitoring/tracking to ensure success
- General Plan and development code updates



How will we develop the CAP?

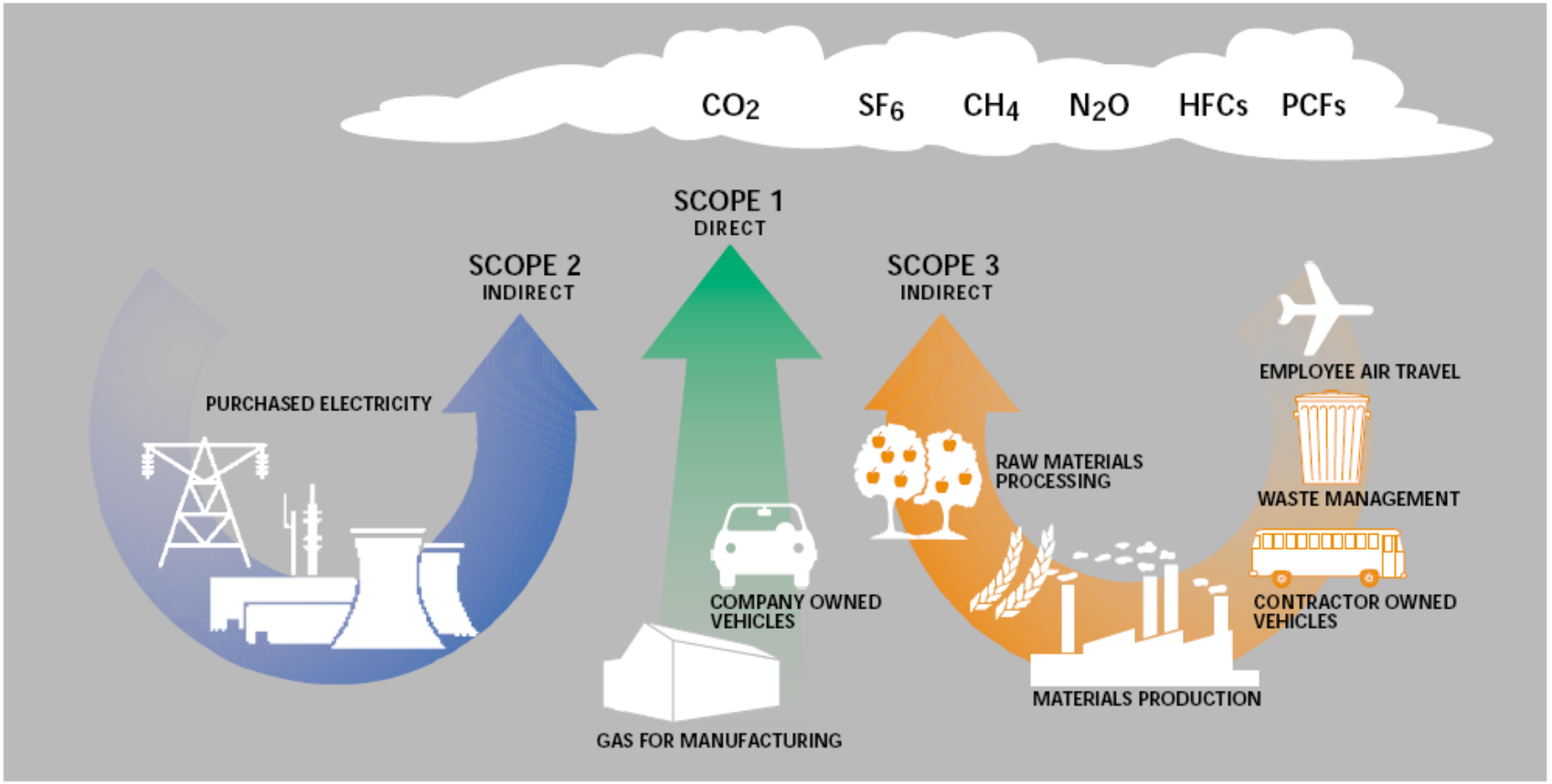


Greenhouse Gas Emissions Inventory

Greenhouse Gas Emissions Inventory

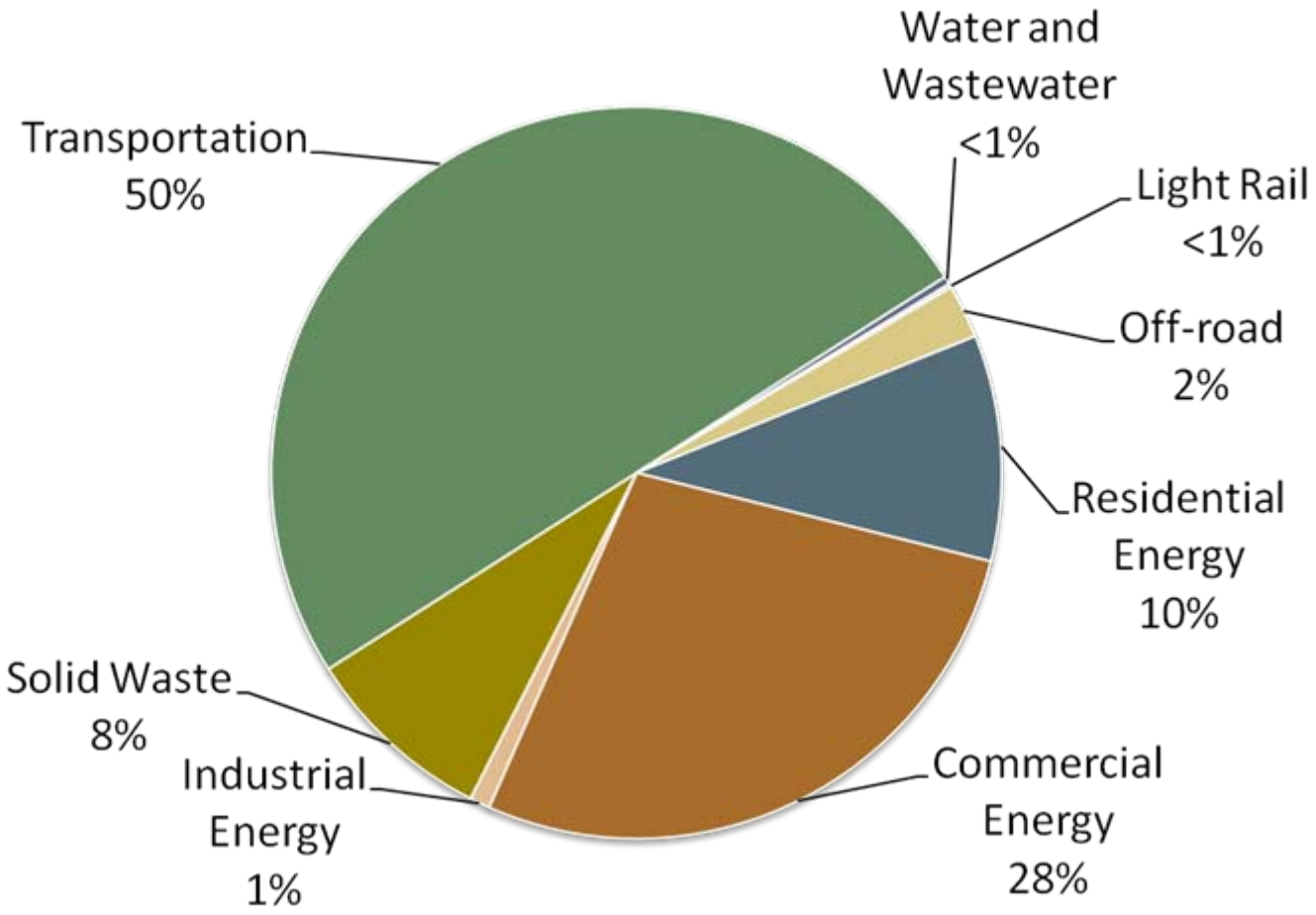
- Comprehensive list of GHG emissions and sources in a jurisdictional boundary
  - Identifies activities that cause emissions
  - Quantifies emissions
- Community-wide inventory
  - Emissions from energy, waste, transportation, water, and “other” sectors in the jurisdictional (city) boundary

GHG Inventory Overview

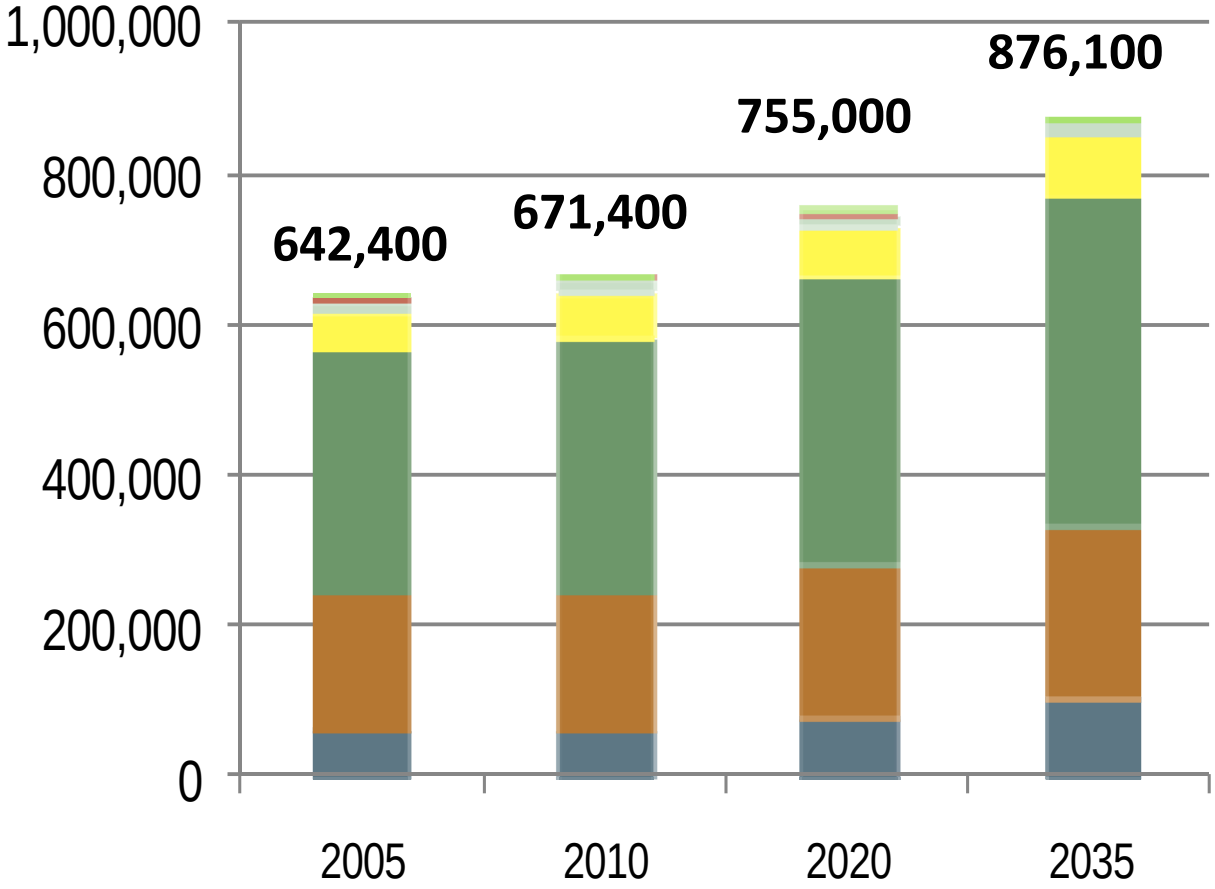


Source: NZBCSD (2002), The Challenge of GHG Emissions: the "why" and "how" of accounting and reporting for GHG emissions: An Industry Guide, New Zealand Business Council for Sustainable Development, Auckland

GHG Inventory Results



Business as Usual (BAU) Forecast ($MTCO_2e$)

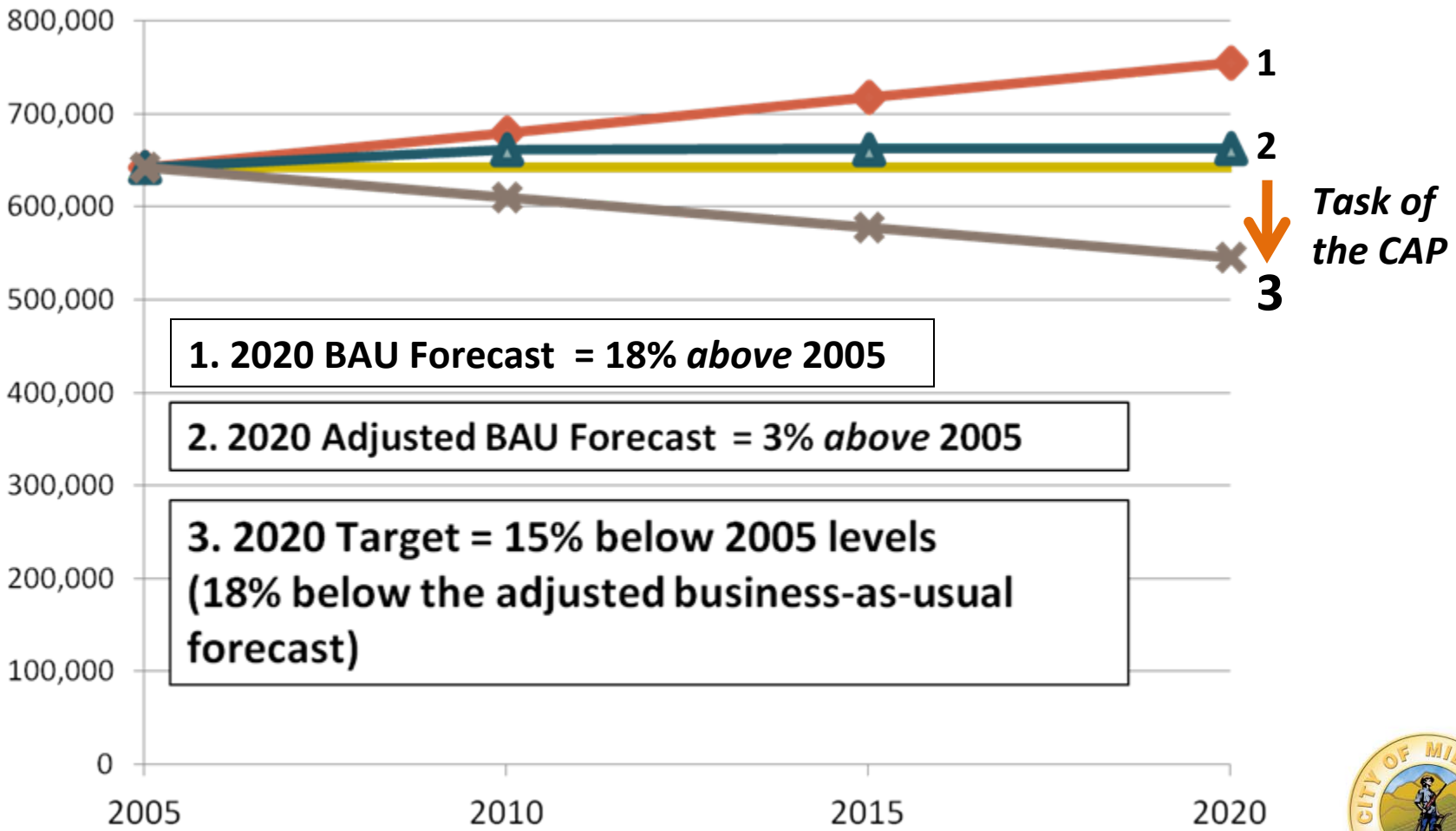


36% increase in emissions by 2035 to 876,100 $MTCO_2e$

Setting a Reduction Target

- AB 32 Scoping Plan Target for Local Governments
  - 15% below current year (baseline) emissions by 2020
- BAAQMD criteria for a Qualified GHG Reduction Strategy
- Identify reductions from state programs to determine reductions the City is responsible for at a local level

Adjusted BAU Forecast



Reduction Measures

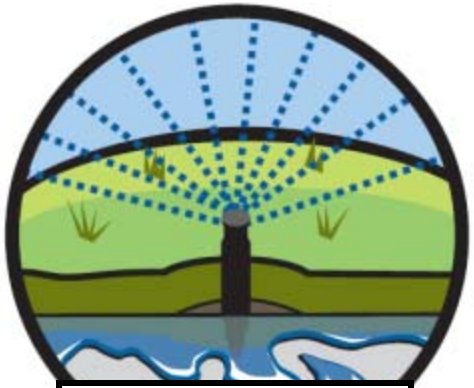
What are Reduction Measures?

- City actions to reduce GHG emissions from the community
- Measures will be analyzed for the following:
  - Greenhouse gas reductions
  - Implementation cost
  - Benefits
  - Feasibility
  - Funding sources
- Credits the City for action taken since 2005 baseline: 1% reduction below the adjusted business-as-usual forecast

Reduction Measure Sectors

Transportation

Residential and Commercial Energy



Water

Agriculture

Solid Waste

Existing Efforts

GHG Reduction Effort	GHG Reductions (MT CO_2e/year)		
2005 Baseline Emissions = 641,500 MT CO_2e	**2010**	**2020**	**2035**
Adjusted Business-As-Usual Forecast with State actions	661,900	662,600	697,800
Bikeways Master Plan	-470	-660	-650
Waste reduction & food waste	-8,740	-8,740	-8,740
Recycled water use	-160	-160	-180
Municipal energy efficiency upgrades ⊓	-410	-390	-370
Municipal solar power purchase agreement	-	-440	-360
Community green building program*	TBD	TBD	TBD
Water conservation	-340	180	1,050
City tree plantings	-210	-260	-530
TOTAL	-10,330	-10,470	-9,780
Adjusted BAU with State and existing local actions	651,570	652,130	688,020
Percentage Change from Baseline	1%	2%	7%

**Reductions from these measures will be quantified in the development of the Climate Action Plan*
⊓ Not included in Total because these reductions are already accounted for in the BAU forecast

Next Steps

- Begin reduction measure development
- Prepare the Climate Action Plan