

Climate Action Plan

City of Phoenix Government Operations



City of Phoenix Approach

2009 Climate Action Plan

- **Limited to City Operations**
- **Achievable Goal Based On:**
 - GHG emission inventory
 - Impact of challenging but achievable measures



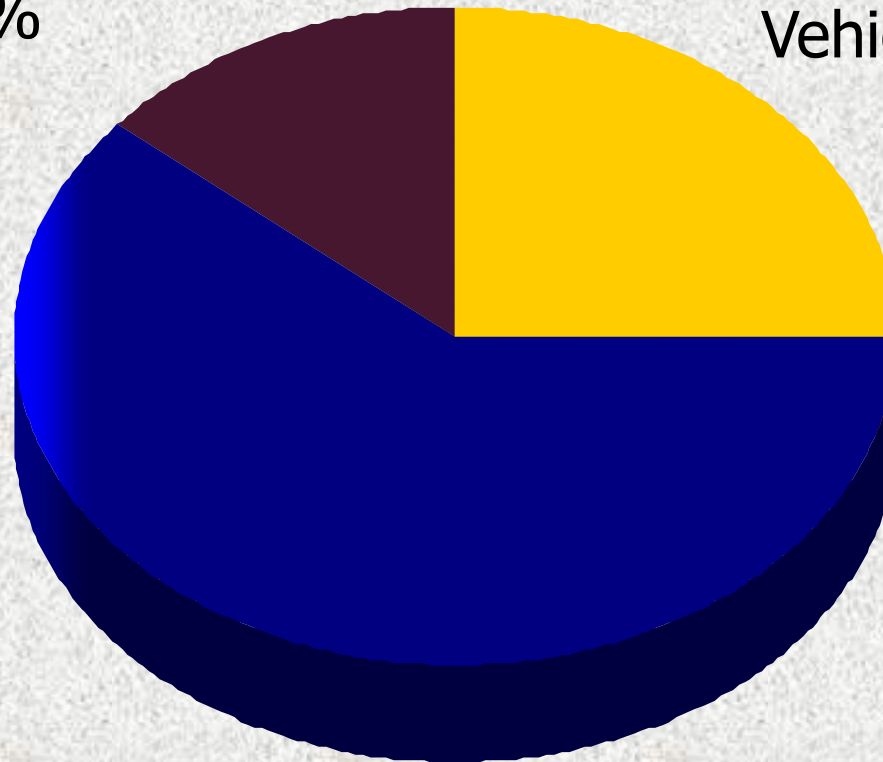
Greenhouse Gas Emissions

City of Phoenix Operations 2005

Landfill & WWT Gases

14%

Vehicles 25%

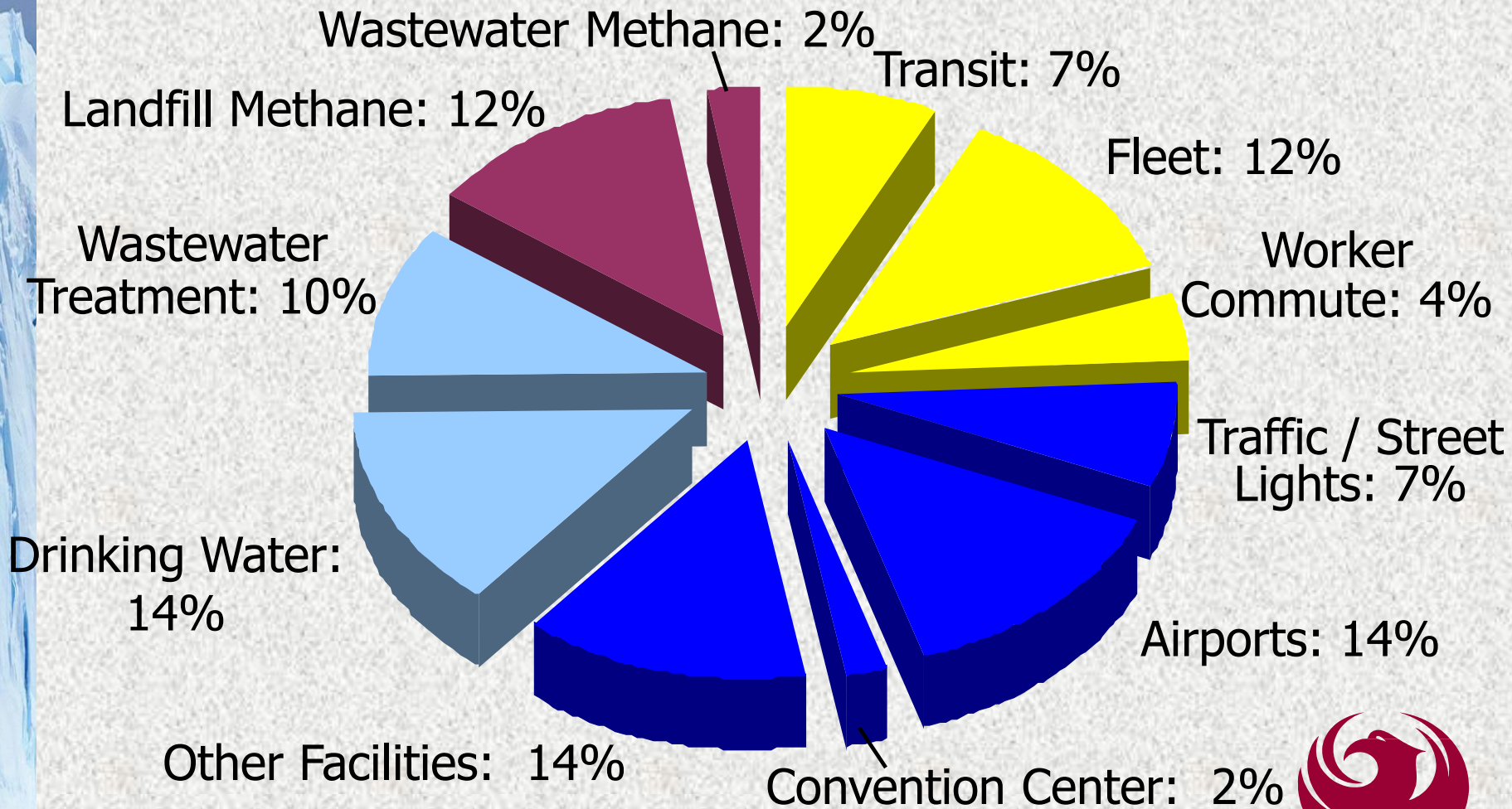


Energy Use 61%



Greenhouse Gas Emissions

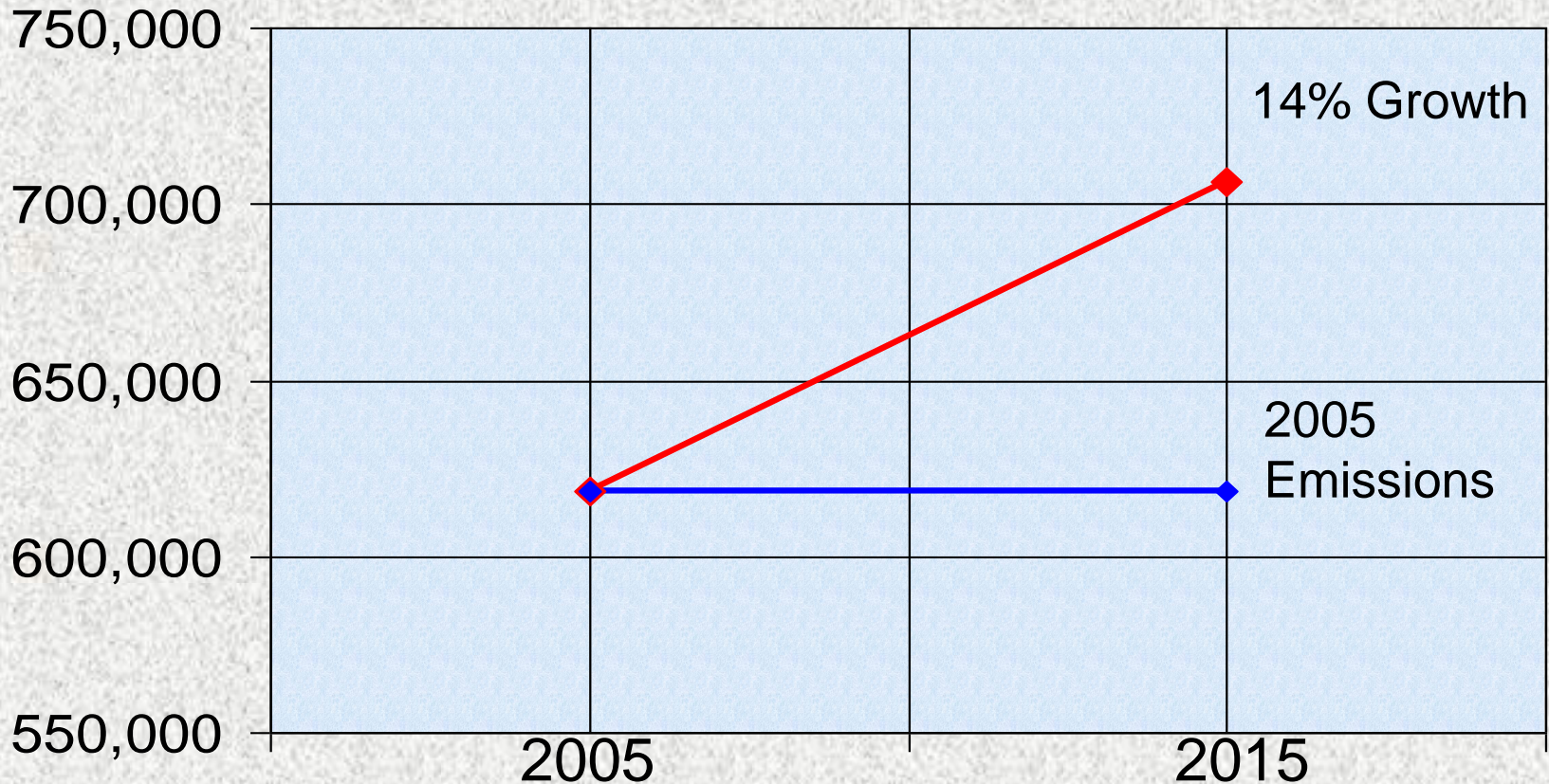
City of Phoenix Operations: 2005



GHG Goal: City Operations

GHG Emissions Growth

CO₂e Tons



◆ Growth: 706,416 ■ 2005 Levels: 618,682



GHG Goal: City Operations

5% Below 2005 Levels by 2015

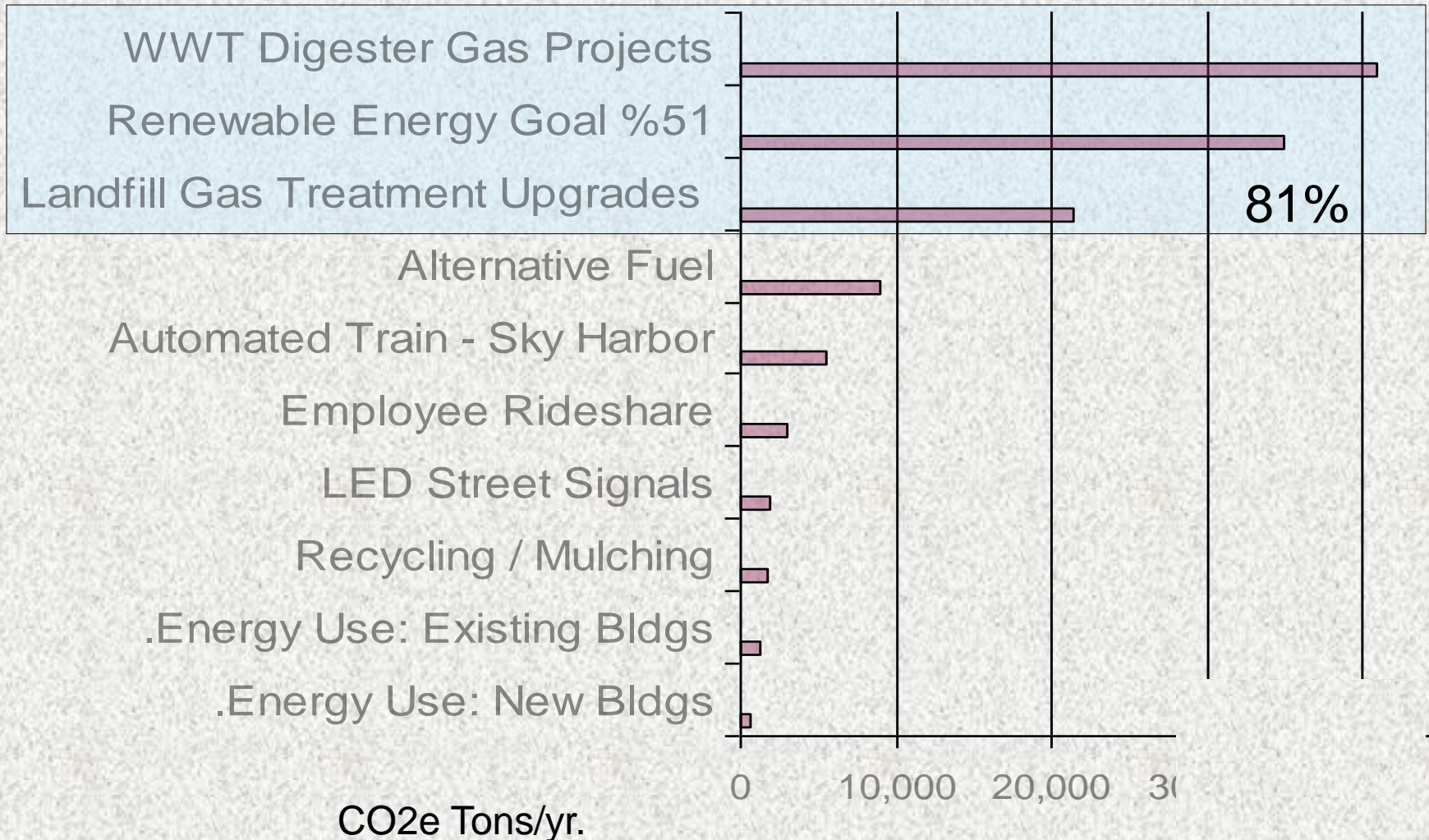
CO₂e-Tons



◆ Growth: 706,416 ■ 2005 Levels: 618,682 ● Goal: 587,748

Impact of GHG Measures

Reduction in 2015



Action Plan Highlights

Top 3 Measures

3. Landfill Upgrades

- Improved Methane Collection Efficiency
- 18% of Total Reduction

2. Renewable Energy Goal

- 15% of City's Energy Renewable by 2025
- 29% of Total Reduction



Action Plan Highlights

Top 3 Measures

1. WWT Digester Gas to Energy

- **91st Avenue WWT Plant**
 - 1st Bid - Respondent withdrew
 - RFQ will be re-issued
- **23rd Ave WWT**
 - All Non-responsive SOQs
 - Low methane levels
- **34% of Total Reduction**



New Programs

Not Included in Action Plan

- **ARRA Grants Include GHG Impact**
 - **City Operations (Climate Action Plan)**
 - Solar
 - Diesel Retrofit
 - Energy Efficiency
 - **Community Programs**
 - Residential and Commercial Projects



New Programs

Not Included in Action Plan

- **SR-85 Landfill Solar & Gas-to Energy**
 - Tessara Solar
 - Negotiations underway
 - If successful...
 - May more than double GHG reduction in Action Plan



Climate Action Tracking

- **2005 Emissions Inventory**
- **2015 Goal Year**
- **Monitory Major Program Changes**
 - ARRA Grants – Solar & Energy Efficiency
 - SR-85 Landfill Solar & Gas-to-Energy
 - WWT Gas-to-Energy
 - Budget & Staff Cuts
 - Potential lower energy & fuel use
 - Take-home vehicle policy & building closures

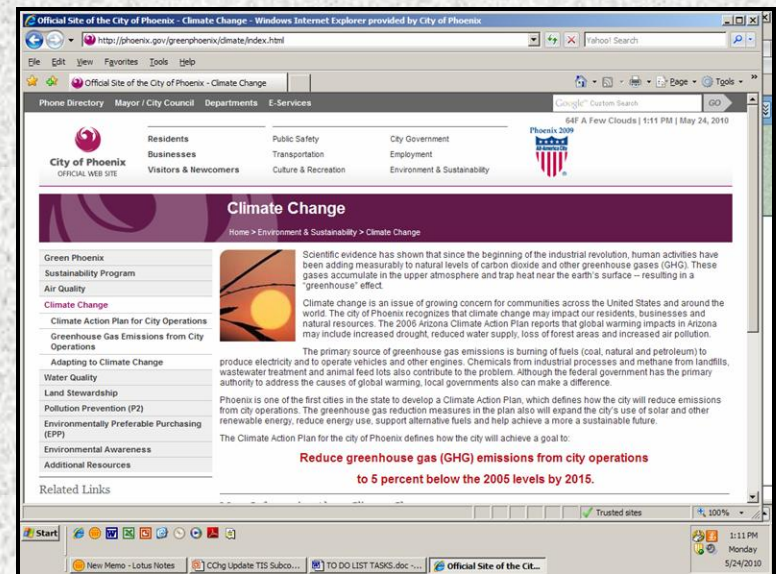


Climate Action Web Site

- Climate Action Plan
- Emissions Inventory
- Climate Adaptation Programs

- Link from Phoenix.gov

- <http://phoenix.gov/>



Climate Action Web Site

■ Climate Adaptation - Phoenix

- Water Resource Planning
- Water Conservation
- Downtown Urban Form / Heat Island
- 2030 Tree & Shade Master Plan
- Heat Relief Campaign



Climate Adaptation

ICLEI Draft Planning Tool

- **OEP on National Review Team**
- **8 Cities Participating**
- **Planning Software**
 - Evaluate Current / Future Climate Impacts
 - Identify Risks to Operations / Services
 - Use Templates for Adaptation Plan



