



# Ozone Action Plan

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**Environmental Services LRC**  
**Air Quality**

**March 10, 2011**



# Background

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- 2008** EPA proposes a new standard for ground-level ozone to **75** ppb\*
- 2010** EPA announces plans to reconsider its 2008 decision and proposes a standard which may fall within the range of **60 -70** ppb.
- 2011** National Ozone Standard remains unchanged. A decision is said to be made by summer 2011.
- El Paso is currently in compliance with national standard (current three year average **69.6** ppb.)

\*ppb = parts per billion



# Air Quality's Role

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Serve as a contractor to execute contract requirements for the purpose of achieving compliance with the National Ambient Air Quality Standards.

The City of El Paso is the chosen contractor for TCEQ and EPA.



## Contract Requirements

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### Total Inspections

Mobile Source and Fuel	492
Stage I & II	198
Enforcement Activities	39
Non-Major Facilities	25
Major/Emissions Events	3
Title V- Compliance Certification	1
Total	758

Inspection type & quantities limited by contract requirements

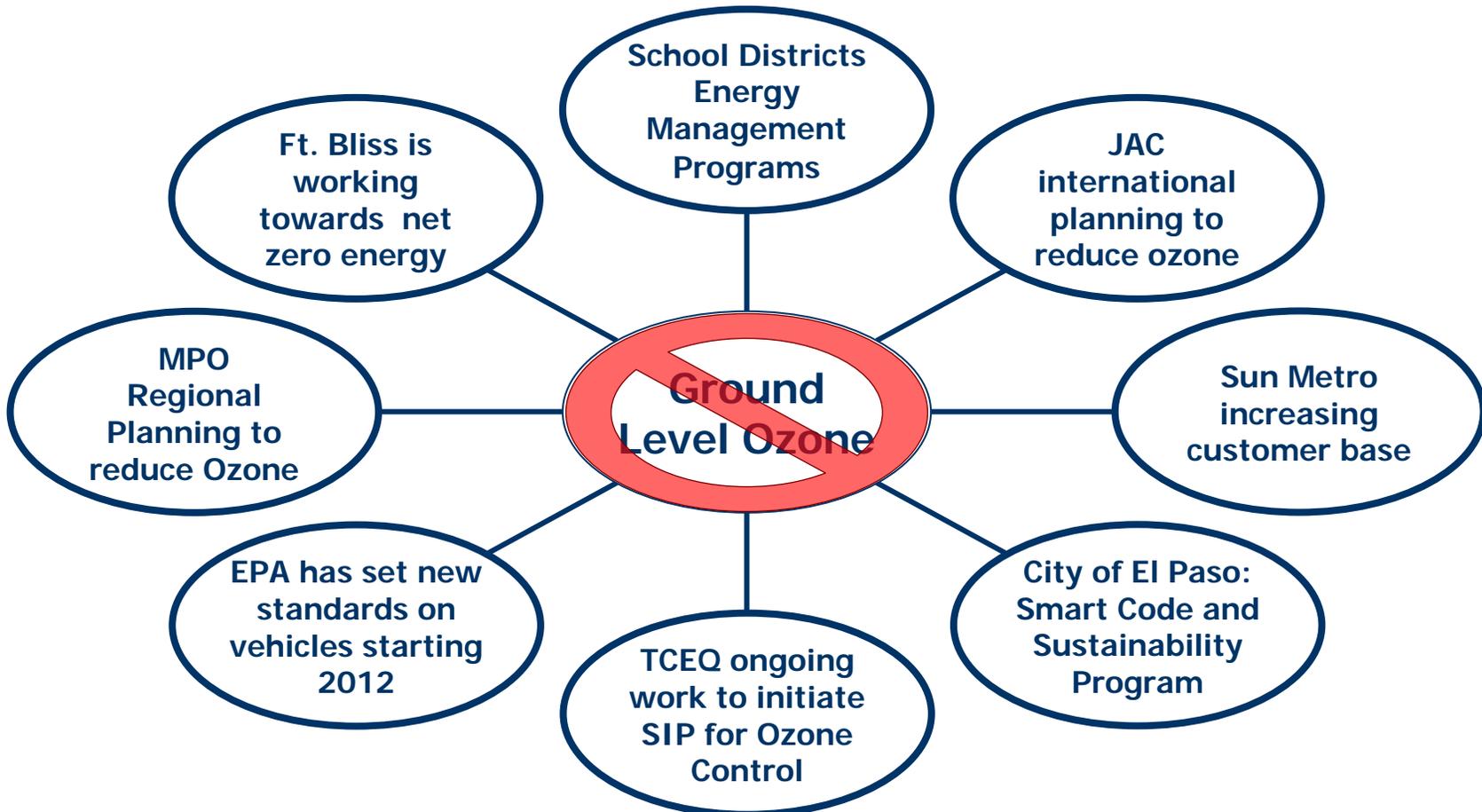


# State Wide Ozone Control Strategies

1. Stage I & II Gasoline vapor control at all gasoline stations	8. VOC controls for tank farms in gasoline bulk plants and the Refinery.
2. Low Reid vapor pressure gasoline dispensed during ozone season	9. Gasoline loading requirements at gasoline terminals
3. Vapor controls for gasoline transport vehicles	10. Low VOC paints, solvents for spray painting activities.
4. High volume low pressure spray guns for spray painting activities.	11. Enclose VOC cleaning equipment
5. Vent gas controls from industrial processes	12. VOC water separator control requirements
6. VOC waste water stream control requirements from industrial sources	13. Landfill non-methane organic compound control requirements
7. Petroleum refinery VOC control requirements process equipment.	14. Tighter controls for degreasing operations



# Other Programs in Place which Result in Ozone Reduction





## El Paso MPO

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- Rider 8 ; Air Quality Planning for ozone reduction.

- \$527,000 (Phase 1)

Outreach

Emissions inventory

Modeling

Monitoring

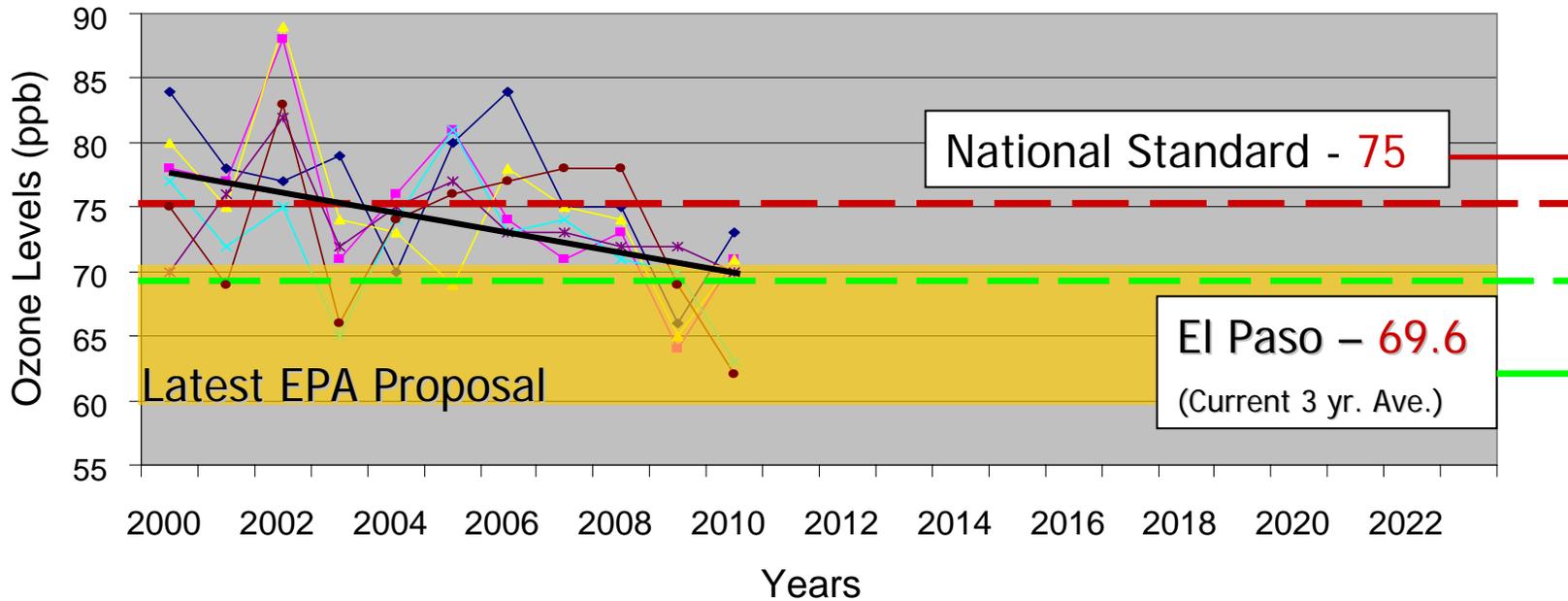
Recommend Pollution controls

Phase 1 complete Aug. 2011



# Trend-lines for Current Controls

Ozone Levels



El Paso UTEP C12

Chamizal C41

Skyline Park C72

Average of trend Lines

Ascarate Park C37

Socorro C49

Ivanhoe C414

Linear (Average of trend Lines)

National Standard - 75

El Paso - 69.6  
(Current 3 yr. Ave.)

Latest EPA Proposal



# Pollution Sources

## NOx\* Sources in El Paso



\* NOx = Nitrogen Oxides



# Ozone Reduction Options

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- I. Public Outreach Campaign\*
  - Develop and implement a Multi-Media Air Quality Awareness Plan
  
- II. Voluntary Partnership Campaign\*
  - Coordinate voluntary Air Quality Initiatives with stake holders focusing on reducing air pollution
  
- III. Mandated Options
  - Develop enforceable ordinance

\*Recommended options



# I. Public Outreach Campaign

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- a.) Multimedia Outreach
  
- b.) Public Event Participation



## a.) Multimedia Outreach

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### Venue

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- City TV channel
- Network TV spots
- Employee newsletters
- General news releases
- Print Media spots: flyers, posters, billboards
- Radio spots
- Other (social networks?)

### Topics

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- Drive less
- Idling Facts
- Vehicle Maintenance
- Green Vehicle Guides
- Health Effects: Awareness
- Energy Efficiency at Home
- Gardening & Landscape
- Natural Habitat Awareness
- Publicize Government Grants and rebates: Industry & Residential
- Energy Efficient Products  
(Note: Material already available)



## b.) Public Events

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### Venue

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- Public School Presentations
- Business Organizations
- City sponsored public events
- Public Library to distribute Air Quality educational information

### Topics

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- Drive less / Vehicle Maintenance
- Idling Facts
- Green Vehicle Guides
- Energy Efficiency at Work/home
- Publicize Government Grants and rebates: Industry & Residential
- Gardening & Landscape
- Energy Efficient Products
- Health Effects: Awareness
- Natural Habitat Awareness

**(Note: Material already available)**



## II. Voluntary Partnership Initiatives

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- Government/Industry Partnerships

Develop and coordinate a program which encourages voluntary partnerships focused on reducing air pollution in El Paso.

- Meet w/ industry to create a forum for information exchange and sharing sustainability successes
- Create venues for soliciting citizen ideas and concerns ie; Town meetings, electronic social networks, and hotline.
- Coordinate w/ existing public and private organizations to promote the benefits of clean air.

- Develop Recognition Awards Program

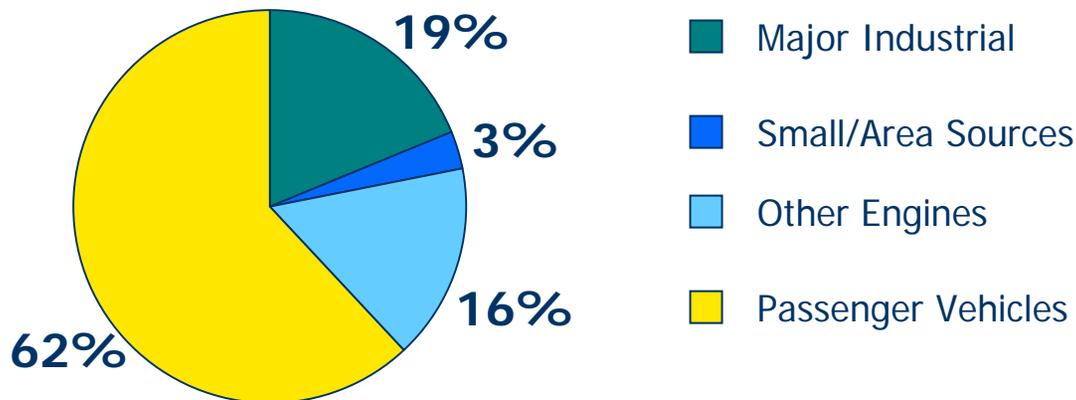
Develop and implement an Awards Program where City Council recognizes energy efficient efforts from schools, business, City Departments, etc.



# Partnership Topics

- Subsidize bus passes ■
- Rebates for purchasing a hybrid/electric vehicle program ■
- Rebate for accelerated vehicle retirement program ■
- Energy Efficient Rebate/Buy Back Program aimed for appliances and gardening tools ■
- Convert fleet to run on alternate fuel ■ ■
- Telecommuting Option for Employees ■
- Limit drive-thru operations ■ ■
- Newer model vehicles to be sold in used car-lots ■
- Financial Assistance Program for alternate fuel vehicle purchase ■
- Reduce the use of surface coatings containing VOC and use water based coatings only ■
- Limit vehicle idling, shut vehicle off ■
- Limit vehicle refueling to morning and evening hours ■ ■
- Promote Carpooling Program ■

**NOx Sources in El Paso**

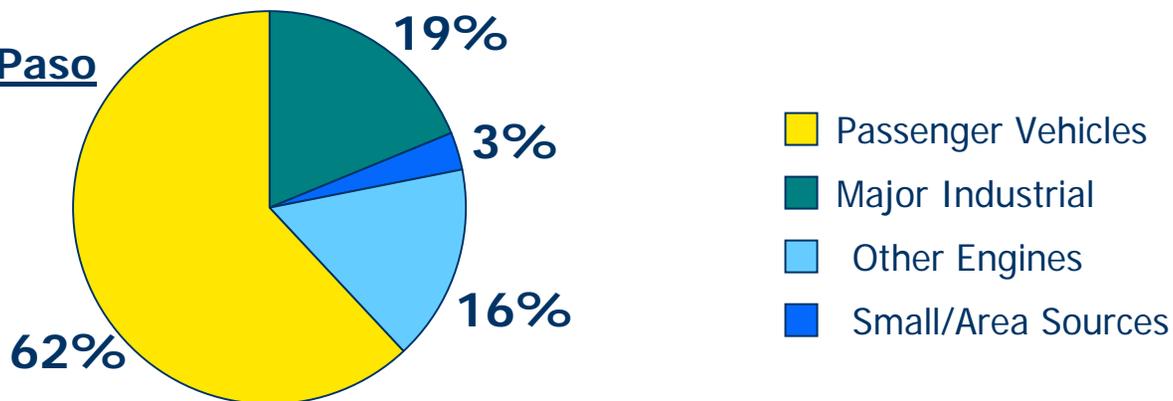




# III. Mandated Options

- Limit sales to Energy Efficient ■ appliances and landscaping equipment.
- Enhanced Vehicle Inspection and Maintenance Program ■
- Convert City fleet to run on alternate fuel ■ ■
- Telecommuting Option for eligible City Employees ■
- Eliminate drive-thru operations ■
- Prohibit sale of older model vehicles in car-lots ■
- Increase fine for expired/fraudulent inspection sticker ■
- Require California emission controls/standards for new vehicles sold in El Paso. ■
- Eliminate the use of surface coatings containing VOC and use water based coatings only ■
- Prohibit vehicle idling ■
- Prohibit operation of smoking vehicles, assess steep fines ■
- Limit vehicle refueling to morning and evening hours ■

NOx Sources in El Paso





# Staffing Cost Estimates

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## I. Public Outreach Campaign

1. Media Campaign Total \$100,000

## II. Voluntary Partnership Campaign

1. One (1) FTE Salary/Benefits	\$65,000
2. Vehicles, computers, etc	<u>\$ 50,000</u>
Total	<b>\$115,000</b>

I & II Total Cost \$215,000



# Summary

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- Downward trend of ozone levels continue in the El Paso region with current controls/programs, no additional funding required.
- Additional reductions may be achieved through an organized Public outreach & Voluntary Partnerships campaign, which will require additional funding.



# Questions?

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