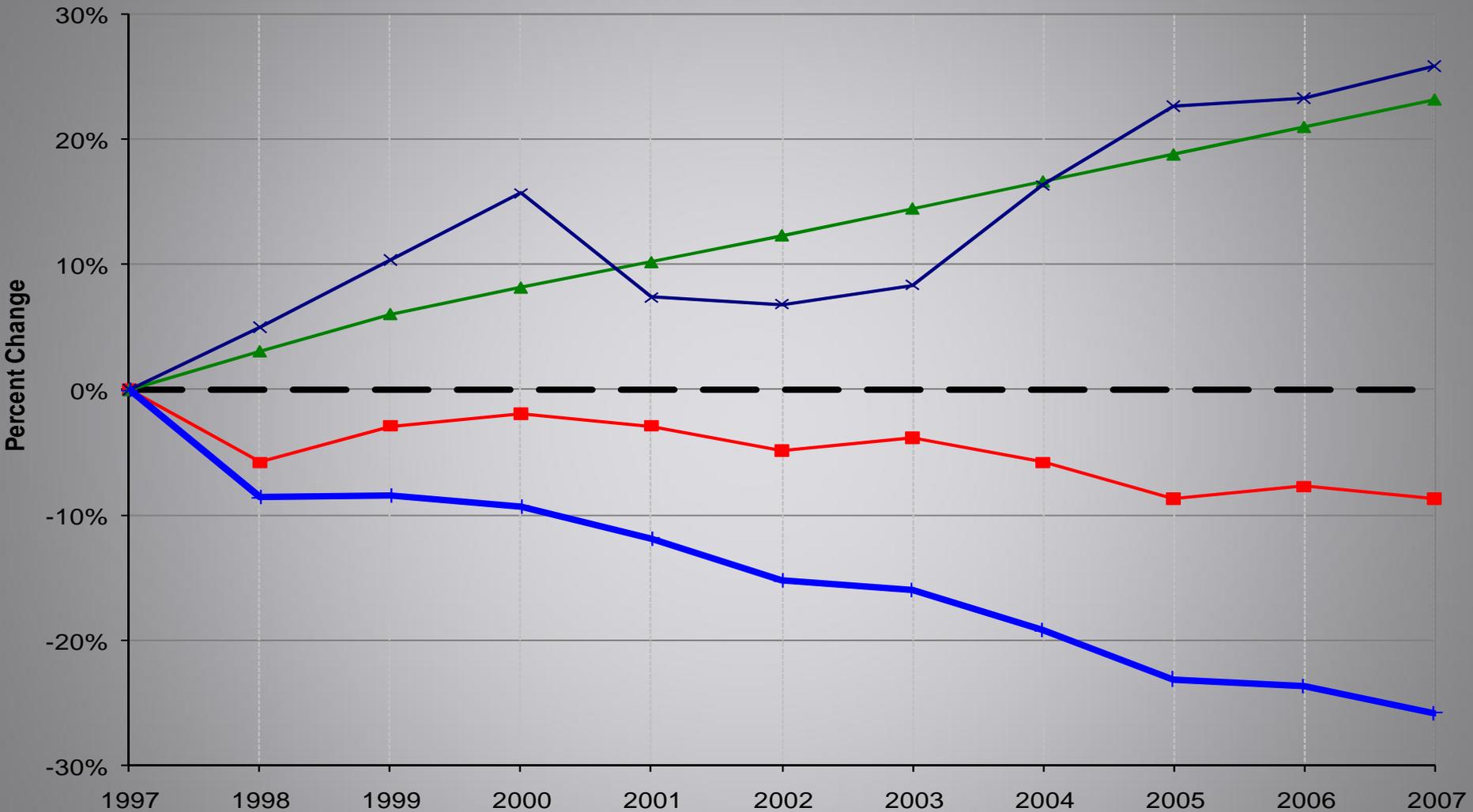


The best E-story never told

**Air quality improvement in
Texas**

Comparison of the Percent Change in Eight-Hour Ozone and Growth Areas in the DFW Area 1997-2007



■ Eight-Hour Ozone Design Value ▲ Population
× Vehicle Miles Traveled + Population Corrected Ozone Design Value

*Source: Population - Estimated based on data from US Census Bureau and Texas State Data Center, August 2008
 VMT - Texas Transportation Institute, August 2008
 Ozone - EPA Air Quality System Data, February 10, 2009

Air Quality Highlights in 2000

- 7 NA or NNA areas for 9 NAAQS
- Many HGB 1-hr Ozone peaks above 225 ppb beginning in Jan.-Feb.
- Serious inter, intra-state and international transport of pollutants
- Strategy concentrated on reducing NO_x emissions
- No clear path to achieve attainment
- Conducted >\$20M air quality study in 2000 (follow up study in 2005)

Achievements

- All areas, except HGB and DFW are in attainment (85 ppb Ozone standard)
- El Paso is monitoring attainment for PM, CO and Ozone NAAQS
- DFW attained the 1-hr Ozone std in 2006
- Few 1-hr Ozone exceedances in HGB with highest in the 150-160 ppb range . No exceedances in Winter and Spring

HGB

2000

2008

1-hr std (125 ppb)

High: 225 ppb 143 ppb

• Readings exceed. std.: 47 6

• 8-hr O₃ std (85 ppb)

• 2000: High *: 117 ppb 85 ppb

• Monitors exceed. std*: 21/23(93%) 1/30(3%)

• * 4th highest reading

DFW

• 2000

2008

- 1-hr O₃ std (125 ppb)

- High: 130 ppb <125 ppb

- Days exceed. std: 6 0

- 8-hr O₃ std (85 ppb)

- High*: 111 ppb 85 ppb

- Monitors exceed. std*: 10/17 (59%) 2/19 (11%)

- *4th highest reading

Key factors contributing to success

- 2000 and 2005 air quality studies
- Permitting of grandfathered sources (with major emission reductions)
- TERP and LIRAP incentive programs accelerated introduction of cleaner vehicles and equipment
- Targeted reductions of Highly Reactive VOCs
- TX-developed and EPA-approved Early Action Compacts as incentive for NNA

Key factors contributing to success

- Reduction (about 80%) in volume of releases from episodic emissions
- Implementation of real-time Environmental Monitoring Rapid Response System
- Introduction and extensive use of InfraRed camera to make VOC emissions visible and implementation of “Find it and Fix it” policy
- Cooperation