

# Cleaner Air for Southeast Texas

## *New Infrared Camera Can See "Invisible Emissions"*

### New Technology

A recent breakthrough application of infrared technology will help Southeast Texas further improve air quality.

A new powerful tool called the **Hawk** uses an infrared camera to detect hydrocarbon emissions that would otherwise be invisible to the human eye. Hydrocarbons absorb less sunlight than the surrounding air making them cooler. The **Hawk** can see the hydrocarbons because it detects a temperature difference.

The **Hawk** is so effective it can pick up butane emissions from an ordinary cigarette lighter.

This new detection device will supplement our region's current practice of individually checking thousands of pipes, fittings, tanks, and valves with handheld monitors.

Industry of the Golden Triangle is working in partnership with the Texas Commission on Environmental Quality to bring this new technology to Southeast Texas.

### Cleaner Air

- The air we breathe is significantly cleaner than just five years ago.
- SARA air emissions decreased 37% between 1998 and 2003.
- Total air emissions for the region are down 24% from 1998.
- Emissions from plant equipment malfunctions declined by 88% during the last five years.

### Reducing Emissions Even More

- Industry's Air Emission Reduction Plans include source control, energy generation, retrofitted controls and shutdown of older facilities.
- \$700 million will be spent over the next four years on additional emission reduction initiatives.
- Planned investments will achieve a 40% reduction in total emissions by 2008.

### Planning For Our Future

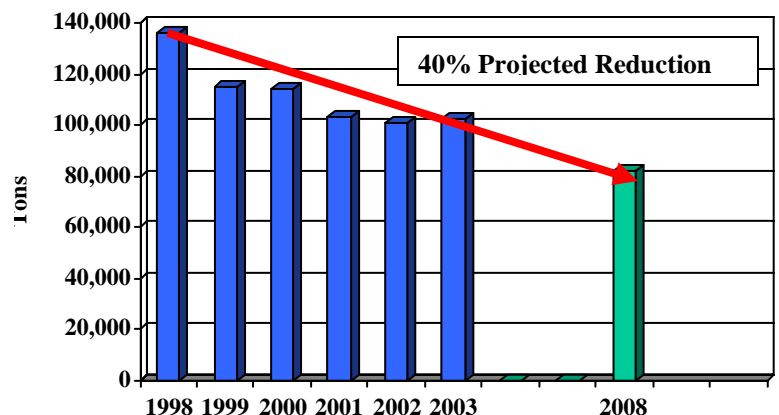
The air in Southeast Texas is one of the most monitored and analyzed of any area in the country. The Southeast Texas Regional Planning Commission, a council of local governments, has been managing a comprehensive Air Monitoring System since 1989, funded totally by local industry.

The public can actually obtain real-time data by logging onto the Regional Planning Commission website, TCEQ website and U.S. EPA website.

A vibrant partnership between government, business and the community is the key to protecting our environment and sustaining economic growth for all of Southeast Texas.

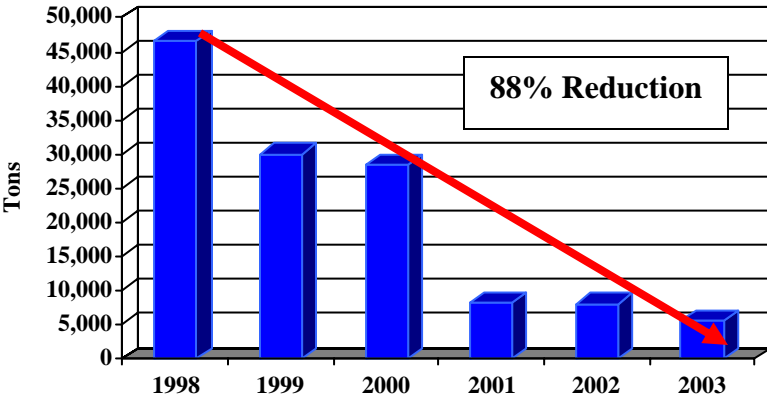


### Total Emissions

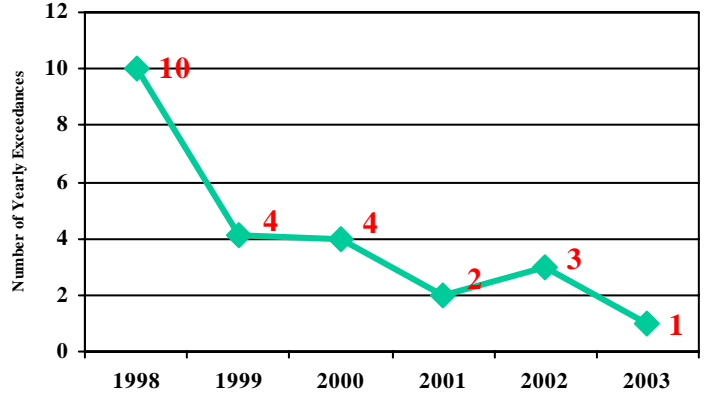


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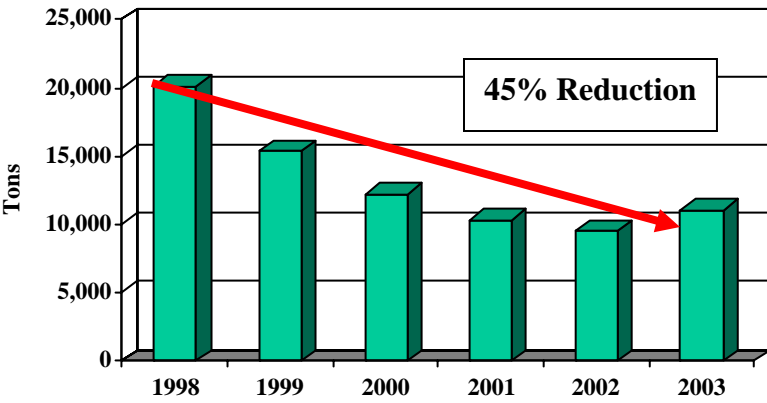
## Emissions from Plant Equipment Malfunctions



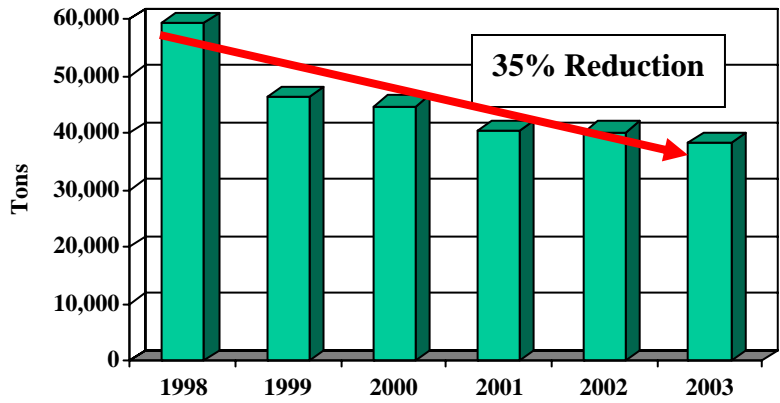
## Southeast Texas Ozone Exceedances Number of Monitor Exceedances for 1 Hour Standard



## VOC Emissions History



## NOx Emissions History



### Data Sources:

- 2005 Southeast Texas Industries Emission Reduction Report representing 97% of the 2002 Emissions Inventory Data Base for industry in Hardin, Orange and Jefferson Counties.
- Southeast Texas Regional Planning Commission
- U.S. Environmental Protection Agency