

H-GAC Local and Mobile Control Strategies Update

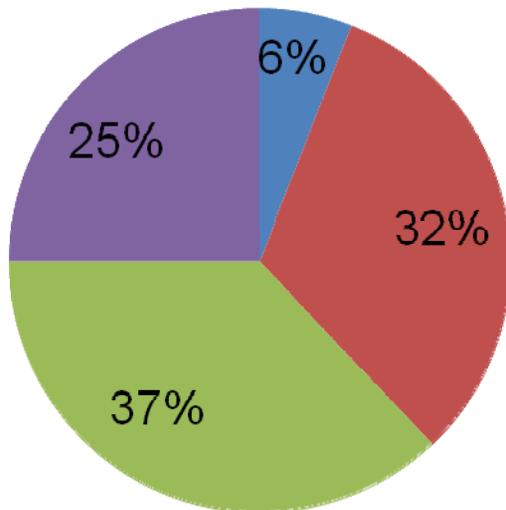
Shelley Whitworth
Air Quality Program Manager
Houston-Galveston Area Council
November 3, 2008



NOx Emissions in the HGB Eight-County Non-Attainment Region

2005 NOx Emissions Baseline

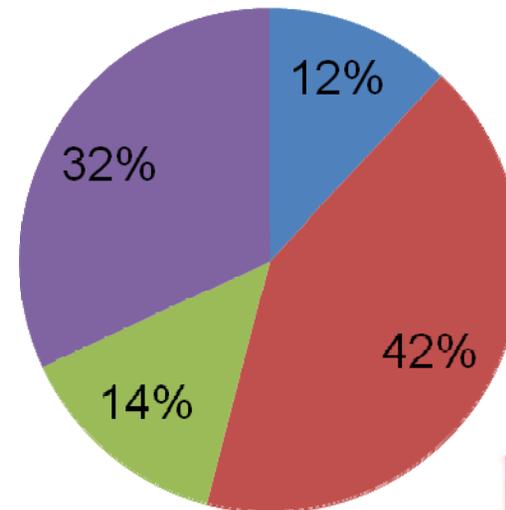
- Area
- Point
- On-Road
- Non-Road



Total = 600 tons per day

2018 NOx Future Modeling Emissions

- Area
- Point
- On-Road
- Non-Road



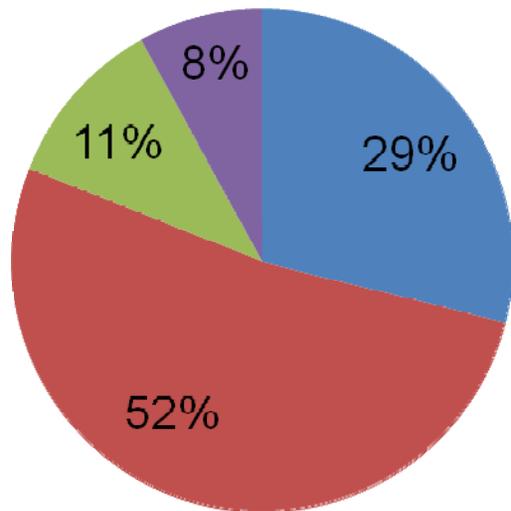
Total = 364 tons per day



VOC Emissions in the HGB Eight-County Non-Attainment Region

2005 VOC Baseline Emissions

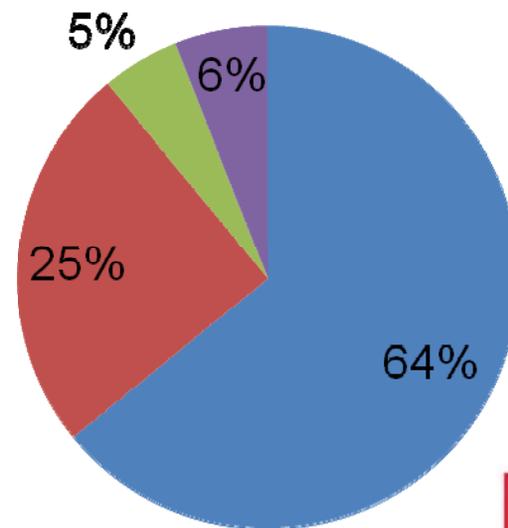
- Point
- Area
- On-Road
- Non-Road



Total = 992 tons per day

2018 VOC Future Modeling Emissions

- Area
- Point
- On-Road
- Non-road



Total = 1011 tons per day



Houston-Galveston-Brazoria SIP Timeline

Due Date	SIP Action Item
May- August 2008	Master List Stakeholder Meetings
August 29, 2008	Final Master Control Strategies List
October 2008- January 2009	Short List Stakeholder Meetings
February 20, 2009	Final Short List of Control Strategies submitted to TCEQ
April 2010	TCEQ submits SIP to EPA

The Master List

Creation of Mobile Source Reduction Plan:

- Start with a wide range of strategy ideas
 - Public input
 - Additional measures used elsewhere
- Focus on NOx reduction strategies
- Qualitative evaluation of control strategies
- Create a cleaner list of most effective control strategies

Who are the Stakeholders?

Previous stakeholder meetings with:

- Local Governments: May 15, 2008
- Airports/Airlines: May 22 & October 1, 2008
- Construction Industry: June 3, 2008
- Rail Roads: June 12, 2008
- Ports/Marine Equipment 1: June 12, 2008
- Ports/Marine Equipment 2: June 19, 2008
- Small Local Governments: July 22, 2008
- Industrial Mobile Sources: August 13, 2008



Creation of the Short List Control Strategies

- Must meet EPA criteria for inclusion
- Short List criteria will focus on:
 - Highest emission reductions
 - Low implementation barriers
 - Highest cost effectiveness
 - Public acceptance
 - Local commitments

Local Commitments to Reduce Polluting Emissions

- EPA allows only 3% of total emission reductions to come from voluntary control strategies.
- Local governments and the private sector will need to commit to mobile related emission reductions in the State Implementation Plan.

GOAL: Achieve the NO_x and VOC emissions reductions needed in HGB in order to demonstrate compliance with the 1997 8-Hour Ozone Standard.

Local Control Strategies

- Voluntary Mobile Source Emission Reduction Program (VMEP)
 - Covers both on and off road mobile projects.
 - Identifies types of projects as opposed to specific projects.
 - Allows reduction credits for voluntary actions through incentives.
 - Mandates a bottom line reduction or commitment in the SIP.

Local Control Strategies

- **Transportation Control Measures (TCMs)**
 - Will reduce transportation-related emissions by reducing vehicle use, improving traffic flow and relieving congestion.
 - Currently collaborating with local governments and TxDOT to select local transportation projects as TCMs.



LIRAP Local Initiative Projects

- Funding from State LIRAP for participating counties.
- Fund local air quality emission reduction programs such as:
 - Implementing an enforcement program against fraudulent emission inspections
 - Intelligent transportation system (ITS) improvements to reduce traffic congestion
 - Replacing county fleets and buses with hybrids or other alternative-fueled transportation
 - Enhanced remote sensing of smoking vehicles.

Texas Emission Reduction Program (TERP)

- H-GAC has been approved to disperse TERP funds locally
- \$5 million in grants available to local governments within the 8-county non-attainment region
- Eligible vehicles
 - On-road heavy-duty vehicles
 - Non-road heavy-duty equipment
 - Marine vessels



Information

- Subcontractor: ENVIRON
- Documentation:

<http://www.h-gac.com/taq/airquality/sip>

- Contacts:

Shelley Whitworth, 713-499-6695 shelley.whitworth@h-gac.com

Graciela Lubertino, 713-993-4582 Graciela.Lubertino@h-gac.com

Andrew DeCandis, 832-681-2549 Andrew.DeCandis@h-gac.com



Houston-Galveston
Area Council