

Overview of SIP Control Strategy Development for On and Off-Road Sources

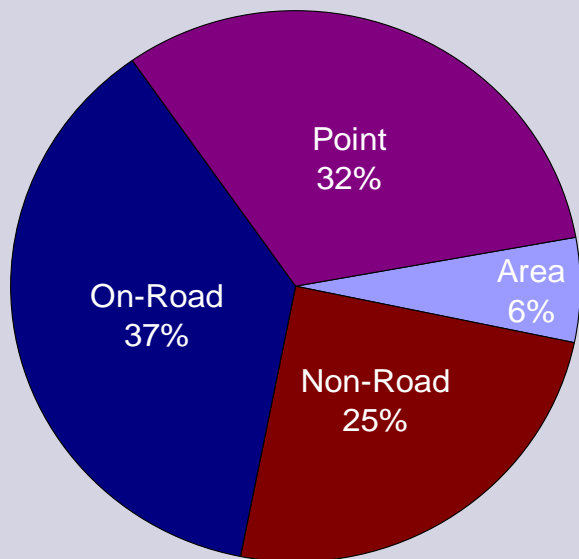
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Houston-Galveston Area Council



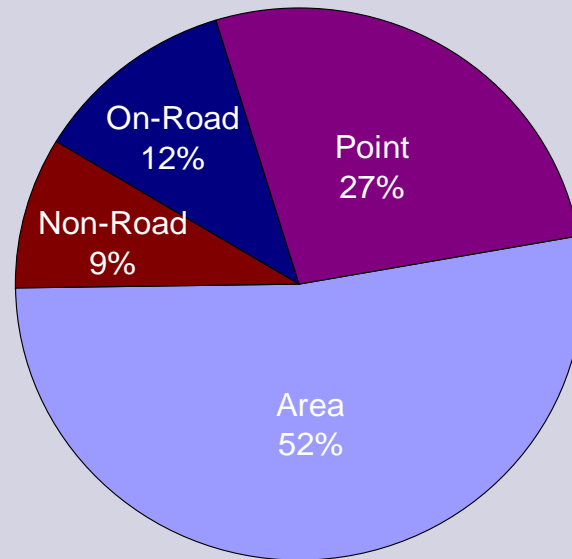
Preliminary 2005 Houston/Galveston/Brazoria Modeling Inventory* (tpd)

NOx



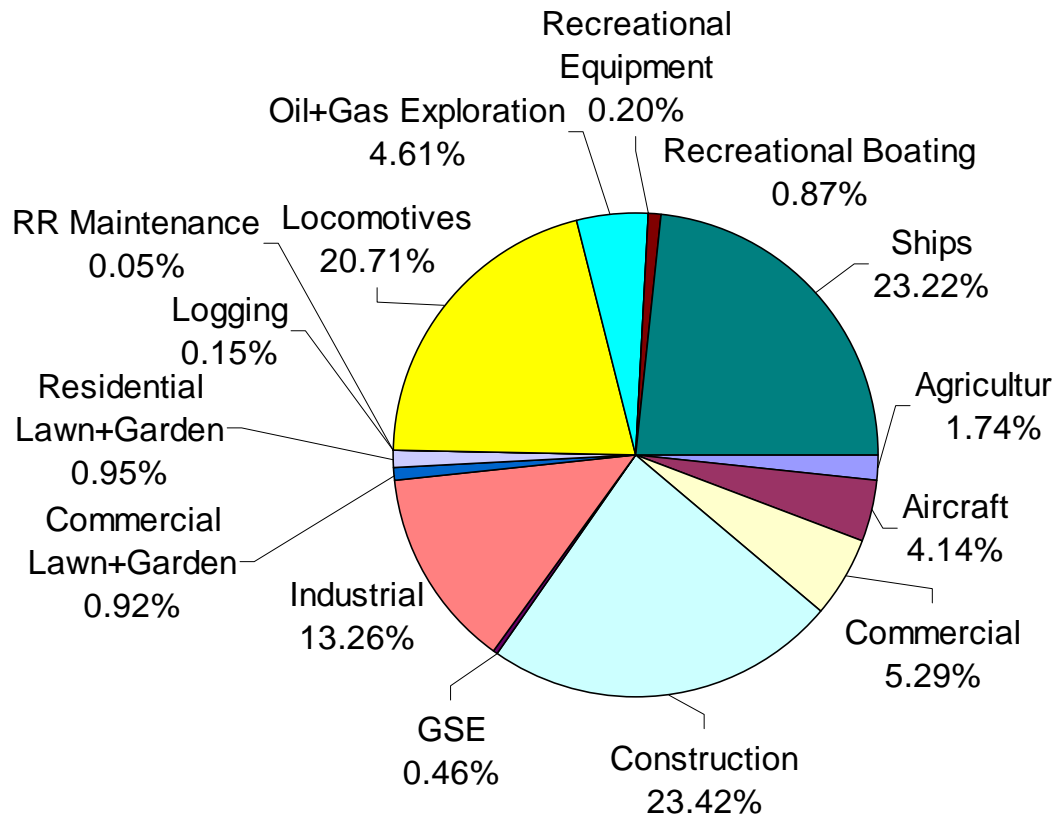
Area	36.19
Non-road	148.45
On-Road	221.67
Point	190.55
Total	596.86

VOC



Area	427.78
Non-road	72.35
On-Road	95.13
Point	219.10
Total	814.36

Preliminary 2005 Houston/Galveston/Brazoria Non-Road NOx Modeling Inventory*



Category	NOx	VOC
Agriculture	2.59	0.41
Aircraft	6.15	1.42
Commercial	7.85	10.66
Construction	34.77	7.80
GSE	0.68	0.08
Industrial	19.69	4.93
Commercial Lawn+Garden	1.37	6.82
Residential Lawn+Garden	1.41	13.09
RR Maintenance	0.07	0.014
Logging	0.23	0.16
Locomotives	30.75	1.83
Oil+Gas Exploration	6.84	0.25
Recreational Equipment	0.29	6.21
Recreational Boating	1.29	17.71
Ships	34.47	0.97
Total	148.45	72.35

Creation of Mobile Source Emission Reduction Plan- Master List

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

HGB Master List

- Old Master List from 2006 plus supplementing additional measures
- Cleaning up based on stakeholder and RAQPC policy subcommittee input
- Specific measures suggested for the greater Houston area have been developed
- Perform qualitative analysis for primary pollutant affected by control strategy.

Criteria for Inclusion as a Short List Strategy

- EPA minimum criteria for emission reduction strategies to be considered viable (PSQE)
 - Permanent: emission reduction strategy cannot be rescinded
 - Surplus: emission reductions not counted elsewhere in emission control plans
 - Quantifiable: measurable reduction in activity or emission rates
 - Federally enforceable: EPA could administer the program and therefore meets Federal guidance

Criteria for Inclusion as a Short List Strategy

- Feasibility/practicality: technology or administrative structure available
- Public acceptance: stakeholder burden and general public interest
- Emission reduction potential
- Cost effectiveness

Criteria for Inclusion as a Short List Strategy

- Voluntary programs such as Clean Vehicle can be included in SIP if defined and funded properly.
- EPA allows only 3% of total emission reductions to come from voluntary control strategies

Creation of Short List

- Measures included will focus on:
 - Highest emission reduction control strategies
 - Strategies with fewer implementation barriers
 - And last consideration of cost or feasibility
 - Quantify effects of selected control strategies

Information

- Subcontractor: ENVIRON
- Documentation:

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

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