

# 2004-2005 Mobile/Non-Road Projects

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# Overview - Mobile/Non-Road

Modeling	1	\$93,983
Inventories	6	\$530,095
Policy-Control Measures	5	\$363,246
Total	12	\$987,324

# Project List

<b>Project</b>	<b>No.</b>	<b>Complete</b>	<b>Amount</b>	<b>Type</b>
Humidity/Temperature Corrections	H8BT/H	11/2004	\$93,983	Modeling
Commercial Marine Vessels	H8CMAR	1/2004	\$152,159	Inventories
Locomotive Emissions	H18(3)	6/2005	\$105,215	Inventories
Diesel Construction Equipment	H43	8/2005	\$178,267	Inventories
On-Road Vehicle Emissions (OEM)	H8BY	5/2004	\$94,454	Inventories
Options for Reducing VMT	H9	8/2004	\$137,241	Policy/Control Measure
TERP	H20/42	11/2004	\$216,019	Policy/Control Measure
LEVII/Tier2	H37	3/2005	\$9,986	Policy/Control Measure
TOTAL			\$987,324	11.9% of all 3 TERC Projects

# Emissions/Issues Targeted

<b>Emissions/Issues</b>	<b>Project</b>	<b>Amount</b>
<b>Heavy Duty Diesel/Large Engines</b>	TERP (H20/H42)	\$216,019
66.0% of On-Road/Nonroad	Diesel Construction (H43)	\$178,267
	Marine Vessels (H8CMAR)	\$152,159
	Locomotives (H18)	\$105,215
	Total	\$651,660
<b>Light-Duty Vehicles</b>	Transportation Options (H9)	\$137,241
14.9% of On-Road/Nonroad	LEVII/Tier2 (H37)	\$9,986
	Total	\$147,226

# Impacts/Value of Research

- 6 of EI projects and one modeling project contributed directly to current SIP or will contribute to 8-hour SIP.
- OEM project tested use of monitoring equipment that will be used with new mobile source model - MOVES
- TERP analysis provided perspective on TERP SIP goals for Houston and DFW regions. Unclear if legislation provides for meeting these goals.
- Two Policy projects explored methods for reducing light duty vehicle emissions. Both projects suggest new programs and policies that need more research and/or demonstration.

# Conclusions

- Mobile/non-road projects improved inventories for large NO<sub>x</sub> sources that are difficult for states to control - locomotives and heavy duty engines/vehicles.
- Research also sought new and challenging approaches to light duty emissions - DFW pay-as-you-drive project is notable example of what is needed next.
- No surprising breakthroughs/discoveries, but LEVII and VMT reductions offer potential avenues for light duty vehicles.
- Locomotive project may provide notable new tools and information for better spatially distributed modeling of locomotives/rail.