



Port of Los Angeles Air Quality Report Card: 2005-2009

PRIMARY POLLUTANTS DEFINED

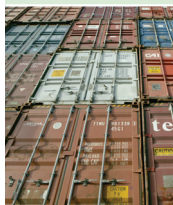
- DPM = Diesel Particulate Matter
- NOx = Oxides of Nitrogen
- SOx = Oxides of Sulfur
- PM_{2.5} = Particulate Matter less than 2.5 microns in diameter
- PM₁₀ = Particulate Matter less than 10 microns in diameter
- CO₂ = Carbon Dioxide (A Green House Gas contributor)

OVERALL EMISSIONS REDUCTIONS CY 2005-2009



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-52%	507
PM _{2.5}	-52%	472
PM ₁₀	-52%	551
NOx	-33%	5,568
SOx	-56%	3,120

EMISSIONS PER 10,000 TEU HANDLED



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-47%	0.61
PM _{2.5}	-47%	0.56
PM ₁₀	-47%	0.66
NOx	-26%	5.8
SOx	-51%	3.82

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-51%	256
PM _{2.5}	-51%	240
PM ₁₀	-51%	300
NOx	-27%	1,491
SOx	-55%	2,973

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-64%	203
PM _{2.5}	-64%	187
PM ₁₀	-64%	203
NOx	-38%	2,557
SOx	-90%	43

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2009	
	%	tons
DPM	0%	0
PM _{2.5}	0%	0
PM ₁₀	0%	0
NOx	-4%	56
SOx	-90%	5

RAIL EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-50%	29
PM _{2.5}	-51%	27
PM ₁₀	-50%	29
NOx	-45%	772
SOx	-93%	91

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2009	
	%	tons
DPM	-44%	20
PM _{2.5}	-43%	17
PM ₁₀	-43%	20
NOx	-48%	694
SOx	-84%	8

CO₂ EQUIVALENT REDUCTIONS BY SOURCE TYPE



Source Type	CY 2005 - 2009	
	%	metric tons
Ocean-Going Vessels	-24%	74,724
Harbor Craft	-2%	1,164
Cargo Handling Equipment	-5%	6,125
Rail	-32%	26,744
Heavy-Duty Vehicles	-13%	67,170
TOTAL		175,927

INVESTING IN CLEANER AIR (PARTIAL LIST)



Funded Projects	POLA Dollars Committed To Date	Emission Reductions (%)
Clean Truck Program	\$110,000,000	70% PM, 50% NOx
Balqon All-Electric Drayage Truck	\$5,400,000	100% reduction in tailpipe emissions
Foss Hybrid Green Assist™ Tug	\$800,000	44% PM, 44% NOx, 20-30% fuel savings
Applied Control Technologies Inc. (ACTI)	\$150,000	98% PM, 95% NOx
CNG Drayage Truck	\$115,000	83% NOx