

AIR QUALITY REPORT CARD 2005 - 2011

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 2005-2011



Pollutant	CY 2005-2011		
	%	tons	
DPM	71%	634	
PM _{2.5}	69%	580	
PM ₁₀	71%	693	
NOx	51%	8,392	
SOx	76%	4,038	

EMISSIONS PER 10,000 TEU HANDLED



	Pollutant	CY 2005-2011		
		%	tons	
	DPM	73%	0.86	
	PM _{2.5}	71%	0.80	
	PM ₁₀	73%	0.95	
	NOx	54%	11.84	
	SOx	77%	5.5	

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS



Pollutant	CY 2005-2011		
Poliularii	%	tons	
DPM	69%	333	
PM _{2.5}	67%	304	
PM ₁₀	69%	395	
NOx	30%	1,608	
SOx	75%	3,895	

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS



Pollutant	CY 2005-2011		
rollululii	%	tons	
DPM	91%	223	
PM _{2.5}	91%	204	
PM ₁₀	91%	222	
NOx	78%	4,948	
SOx	91%	38	

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005-2011		
Poliularii	%	tons	
DPM	36%	20	
PM _{2.5}	36%	18	
PM ₁₀	36%	20	
NOx	33%	441	
SOx	92%	6	

RAIL EMISSIONS REDUCTIONS



	Pollutant	CY 2005-2011		
		%	tons	
	DPM	46%	27	
	PM _{2.5}	48%	26	
	PM ₁₀	46%	27	
	NOx	39%	660	
	SOx	94%	92	

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS



	Pollutant	CY 2005-2011		
ı		%	tons	
	DPM	56%	30	
	PM _{2.5}	54%	27	
	PM ₁₀	54%	29	
	NOx	47%	735	
	SOx	83%	7	

CO2 EQUIVALENT REDUCTIONS BY SOURCE TYPE



Source Type	CY 2005-2011		
Jource Type	%	metric tons	
Ocean-Going Vessels	23%	69,917	
Harbor Craft	9%	5,298	
Cargo Handling Equipment*	- 8%	- 10,457	
Rail	16%	12,867	
Heavy-Duty Vehicles	26%	121,498	
TOTAL		199,123	

^{*} All percentages reflect a reduction in emissions except cargo handling equipment.

SAN PEDRO BAY STANDARDS



- The San Pedro Bay Standards establish the long-term emissions-reduction and health risk-reduction goals for the ports of Los Angeles and Long Beach.
- Emission Reduction Standard for DPM, NOx, and SOx have target years of 2014 and 2023 to support state ambient air quality goals.
- Health Risk Reduction Standard has a target year of 2020 to align with CARB's Goods Movement Emission Reduction Plan.

(% reduction compared to 2005)	2014	2023
DPM	72%	77%
NOx	22%	59%
SOx	93%	93%

Health Risk Reduction Standard 2020 (% reduction in residential cancer risk compared to 2005)

85%5)
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