


AIR QUALITY REPORT CARD 2005 - 2011

PRIMARY POLLUTANTS DEFINED

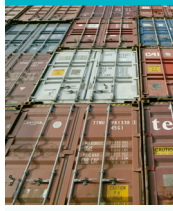
DPM = Diesel Particulate Matter
 NOx = Oxides of Nitrogen
 SOx = Oxides of Sulfur
 PM_{2.5} = Particulate Matter less than 2.5 microns in diameter
 PM₁₀ = Particulate Matter less than 10 microns in diameter
 CO₂ = Carbon Dioxide (A Green House Gas contributor)

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



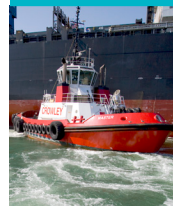
Pollutant	CY 2005 - 2011	
	%	tons
DPM	69%	333
PM _{2.5}	67%	304
PM ₁₀	69%	395
NOx	30%	1,608
SOx	75%	3,895

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS




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

RAIL EMISSIONS REDUCTIONS



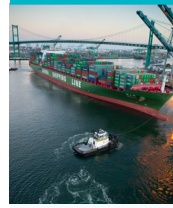
Pollutant	CY 2005 - 2011	
	%	tons
DPM	46%	27
PM _{2.5}	48%	26
PM ₁₀	46%	27
NOx	39%	660
SOx	94%	92

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2011	
	%	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	
	%	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.

Clean Air Action Plan (CAAP) Goals (% reduction compared to 2005)	2014	2023
DPM	72%	77%
NOx	22%	59%
SOx	93%	93%

Health Risk Reduction Standard (% reduction in residential cancer risk compared to 2005)	2020	85%
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