

2005-2012 AIR QUALITY REPORT CARD



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 2005-2012

Pollutant	CY 2005 - 2012	
	%	tons
DPM	79%	706
PM _{2.5}	77%	645
PM ₁₀	79%	773
NOx	56%	9,154
SOx	88%	4,675

EMISSIONS PER 10,000 TEU HANDLED

Pollutant	CY 2005 - 2012	
	%	tons
DPM	81%	0.96
PM _{2.5}	79%	0.88
PM ₁₀	81%	1.06
NOx	59%	12.94
SOx	89%	6.31

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS

Pollutant	CY 2005 - 2012	
	%	tons
DPM	82%	394
PM _{2.5}	79%	360
PM ₁₀	81%	463
NOx	37%	1,976
SOx	88%	4,530

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

Pollutant	CY 2005 - 2012	
	%	tons
DPM	94%	229
PM _{2.5}	93%	209
PM ₁₀	93%	228
NOx	79%	5,029
SOx	90%	38

HARBOR CRAFT EMISSIONS REDUCTIONS

Pollutant	CY 2005 - 2012	
	%	tons
DPM	45%	25
PM _{2.5}	45%	23
PM ₁₀	45%	25
NOx	41%	540
SOx	91%	5.7

RAIL EMISSIONS REDUCTIONS

Pollutant	CY 2005 - 2012	
	%	tons
DPM	43%	25
PM _{2.5}	44%	23
PM ₁₀	43%	25
NOx	49%	835
SOx	97%	95

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS

Pollutant	CY 2005 - 2012	
	%	tons
DPM	63%	33
PM _{2.5}	60%	30
PM ₁₀	60%	33
NOx	49%	773
SOx	83%	7

CO₂ EQUIVALENT REDUCTIONS BY SOURCE TYPE

Source Type	CY 2005 - 2012	
	%	metric tons
Ocean-Going Vessels	32%	95,525
Harbor Craft	12%	6,869
Cargo Handling Equipment*	- 8%	- 11,094
Rail	15%	12,361
Heavy-Duty Vehicles	19%	89,388
TOTAL		193,049

* 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 2020 85%
 (% reduction in residential cancer risk compared to 2005)