

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, NO_x, and SO_x 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 California Air Resources Board's Goods Movement Emission Reduction Plan.

CLEAN AIR ACTION PLAN (CAAP) GOALS (% reduction compared to 2005)

	2014	2023
DPM	72%	77%
NO _x	22%	59%
SO _x	93%	93%
Health Risk	2020	85%



Reduction Standard

(% reduction in residential cancer risk compared to 2005)



OVERALL EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	87%	765
PM _{2.5}	85%	700
PM ₁₀	86%	818
NO _x	60%	9,670
SO _x	98%	4,862

EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	90%	1.05
PM _{2.5}	88%	0.97
PM ₁₀	89%	1.13
NO _x	68%	14.65
SO _x	98%	6.53



OCEAN-GOING VESSEL EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	90%	420
PM _{2.5}	87%	373
PM ₁₀	89%	474
NO _x	42%	2,234
SO _x	98%	4,712

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS CY 2005-2017



Pollutant	%	tons
DPM	96%	240
PM _{2.5}	96%	229
PM ₁₀	96%	239
NO _x	76%	4,822
SO _x	90%	41

HARBOR CRAFT EMISSIONS REDUCTIONS CY 2005-2017



Pollutant	%	tons
DPM	57%	31
PM _{2.5}	57%	29
PM ₁₀	57%	31
NO _x	48%	628
SO _x	90%	6

RAIL EMISSIONS REDUCTIONS CY 2005-2017



Pollutant	%	tons
DPM	48%	27
PM _{2.5}	50%	26
PM ₁₀	48%	27
NO _x	51%	873
SO _x	99%	97

CARGO HANDLING EQUIPMENT EMISSIONS REDUCTIONS CY 2005-2017



Pollutant	%	tons
DPM	90%	48
PM _{2.5}	87%	43
PM ₁₀	87%	47
NO _x	71%	1,112
SO _x	80%	7

CO2 EQUIVALENT REDUCTIONS BY SOURCE TYPE CY 2005-2017



Source Type	%	tons
Ocean-Going Vessels	27%	79,045
Harbor Craft	3%	1,649
Cargo Handling Equipment	-28%	-38,324
Rail	11%	8,855
Heavy Duty Vehicles	17%	79,310
TOTAL	13%	136,151

PRIMARY POLLUTANTS DEFINED:

DPM = Diesel Particulate Matter
 NO_x = Oxides of Nitrogen
 SO_x = 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)