

AIR QUALITY REPORT CARD 2021

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 Standards for DPM, NO_x, and SO_x have target years of 2014 and 2023 to support state ambient air quality goals. The Health Risk Reduction Standard has a target year of 2020 to align with California Air Resources Board's Goods Movement Emission Reduction Plan.

All changes shown are compared to 2005 baseline levels.

CLEAN AIR ACTION PLAN (CAAP) GOALS

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



OVERALL EMISSIONS REDUCTIONS

Pollutant	%	Tons	
DPM	84%	704	↓
PM _{2.5}	80%	693	↓
PM ₁₀	82%	819	↓
NO _x	44%	6,730	↓
SO _x	95%	4,584	↓



EMISSIONS REDUCTIONS PER 10,000 TEU HANDLED

Pollutant	%	Tons	
DPM	92%	0.99	↓
PM _{2.5}	91%	0.99	↓
PM ₁₀	91%	1.17	↓
NO _x	60%	12.48	↓
SO _x	96%	6.22	↓



OCEAN-GOING VESSEL EMISSIONS CHANGES

Pollutant	%	Tons	
DPM	81%	366	↓
PM _{2.5}	76%	372	↓
PM ₁₀	79%	482	↓
NO _x	15%	796	↑
SO _x	95%	4,435	↓



HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

Pollutant	%	Tons	
DPM	98%	242	↓
PM _{2.5}	98%	232	↓
PM ₁₀	98%	242	↓
NO _x	83%	5,265	↓
SO _x	91%	41	↓



HARBOR CRAFT EMISSIONS REDUCTIONS

Pollutant	%	Tons	
DPM	54%	18	↓
PM _{2.5}	54%	17	↓
PM ₁₀	54%	18	↓
NO _x	20%	141	↓
SO _x	88%	3	↓



RAIL EMISSIONS REDUCTIONS

Pollutant	%	Tons	
DPM	52%	30	↓
PM _{2.5}	53%	28	↓
PM ₁₀	52%	30	↓
NO _x	56%	961	↓
SO _x	99%	97	↓



CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS

Pollutant	%	Tons	
DPM	91%	48	↓
PM _{2.5}	88%	44	↓
PM ₁₀	88%	48	↓
NO _x	74%	1,159	↓
SO _x	78%	7	↓



CO₂ EQUIVALENT CHANGES BY SOURCE TYPE

Source Type	%	Metric Tons	
Ocean-Going Vessels	80%	223,989	↑
Harbor Craft	19%	8,525	↑
Cargo-Handling Equip.	37%	50,216	↑
Rail	21%	16,985	↓
Heavy-Duty Vehicles	6%	30,063	↓
TOTAL	23%	235,680	↑



PRIMARY POLLUTANTS DEFINED:

DPM = Diesel Particulate Matter **PM_{2.5}** = Particulate Matter less than 2.5 microns in diameter
NO_x = Oxides of Nitrogen **PM₁₀** = Particulate Matter less than 10 microns in diameter
SO_x = Oxides of Sulfur **CO₂** = Carbon Dioxide (A greenhouse gas contributor)