

# AIR QUALITY REPORT CARD

# 2023

## 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, NOx, and SOx 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.

## CLEAN AIR ACTION PLAN (CAAP) GOALS

	2014	2023
DPM	72%	77%
NOx	22%	59%
SOx	93%	93%
	<b>2020</b>	
Health Risk	85%	



## OVERALL EMISSIONS REDUCTIONS\*

Pollutant	%	Tons
DPM	91%	741
PM2.5	90%	762
PM10	91%	892
NOx	74%	11,316
SOx	98%	4,748
CO2e	24%	243,760



## EMISSIONS REDUCTIONS PER 10,000 TEU HANDLED\*

Pollutant	%	Tons
DPM	92%	1.004
PM2.5	92%	1.033
PM10	92%	1.209
NOx	77%	15.84
SOx	99%	6.36



## OCEAN-GOING VESSEL EMISSIONS REDUCTIONS\*

Pollutant	%	tons
DPM	94%	408
PM2.5	92%	444
PM10	93%	560
NOx	57%	2,962
SOx	98%	4,597



\*All reductions shown are compared to 2005 baseline levels.

## HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS\*

Pollutant	%	tons
DPM	99%	244.7
PM2.5	99%	234.8
PM10	99%	244.6
NO <sub>x</sub>	94%	5,957
SO <sub>x</sub>	93%	41.5



## HARBOR CRAFT EMISSIONS REDUCTIONS\*

Pollutant	%	tons
DPM	68%	22
PM2.5	68%	22
PM10	68%	22
NO <sub>x</sub>	32%	224
SO <sub>x</sub>	88%	3.6



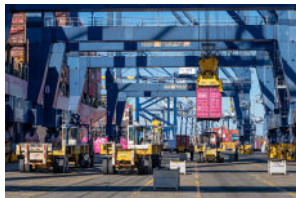
## RAIL EMISSIONS REDUCTIONS\*

Pollutant	%	tons
DPM	57%	33
PM2.5	58%	30
PM10	57%	33
NO <sub>x</sub>	61%	1053
SO <sub>x</sub>	99%	97.3



## CARGO HANDLING EQUIPMENT EMISSIONS REDUCTIONS\*

Pollutant	%	tons
DPM	79%	33.8
PM2.5	77%	30.8
PM10	77%	33.5
NO <sub>x</sub>	77%	1,120.1
SO <sub>x</sub>	83%	7.8



## CO<sub>2</sub> EQUIVALENT CHANGES BY SOURCE TYPE\*

Pollutant	%	tons	
Ocean-Going Vessels	41%	116,332	▼
Harbor Craft	15%	-6,812	▲
Cargo Handling Equip.	8%	-10,831	▲
Rail	33%	26,793	▼
Heavy-Duty Vehicles	25%	118,276	▼



### PRIMARY POLLUTANTS DEFINED:

**DPM** = Diesel Particulate Matter

**NO<sub>x</sub>** = Oxides of Nitrogen

**SO<sub>x</sub>** = Oxides of Sulfur

**PM<sub>2.5</sub>** = Particulate Matter less than 2.5 microns in diameter

**PM<sub>10</sub>** = Particulate Matter less than 10 microns in diameter

**CO<sub>2</sub>** = Carbon Dioxide (A greenhouse gas contributor)