2016 AIR QUALITY REPORT CARD

COMPARED TO 2005

THE PORT OF LOS ANGELES

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

OVERALL EMISSIONS REDUCTIONS CY 2005-2016

Pollutant	CY 2005-2016 %	CY 2005-2016 tons
DPM	87%	765
$PM_{2.5}$	85%	699
PM_{10}	86%	818
NO_x	57%	9,183
SO_x	98%	4,869

EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS

Pollutant	CY 2005-2016 %	CY 2005-2016 tons
DPM	89%	1.05
$PM_{2.5}$	88%	0.96
PM_{10}	88%	1.12
NO_x	63%	13.72
SO_x	98%	6.53

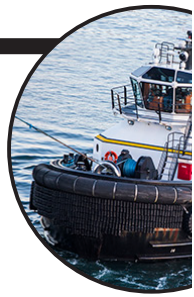
OCEAN-GOING VESSEL EMISSIONS REDUCTIONS

Pollutant	CY 2005-2016 %	CY 2005-2016 tons
DPM	90%	419
$PM_{2.5}$	87%	373
PM_{10}	89%	474
NO_x	40%	2,095
SO_x	98%	4,718

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

Pollutant	CY 2005-2016 %	tons
DPM	97%	241
$PM_{2.5}$	97%	230
PM_{10}	97%	240
NO_x	71%	4,450
SO_x	90%	41

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005-2016 %	tons
DPM	52%	29
$PM_{2.5}$	52%	26
PM_{10}	52%	29
NO_x	43%	568
SO_x	89%	6

RAIL EMISSIONS REDUCTIONS

Pollutant	CY 2005-2016 %	tons
DPM	50%	28
$PM_{2.5}$	49%	26
PM_{x10}	50%	28
NO_x	54%	932
SO_x	99%	97

CARGO HANDLING EQUIPMENT EMISSIONS REDUCTION

Pollutant	CY 2005-2016 %	tons
DPM	91%	48
$PM_{2.5}$	88%	43
PM_{10}	88%	47
NO_x	72%	1,139
SO_x	82%	8

CO2 EQUIVALENT EMISSIONS BY SOURCE TYPE

Source Type	CY 2005-2016 %	tons
Ocean-Going Vessels	28%	80,559
Harbor Craft	-2%	-1,423
Cargo Handling Equipment	-19%	-25,038
Rail	18%	14,814
Heavy-Duty Vehicles	17%	80,849
TOTAL	**15%**	**149,761**

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
PM_{10} = Particulate Matter less than 10 microns in diameter
CO_2 = Carbon Dioxide (A Green House Gas contributor)