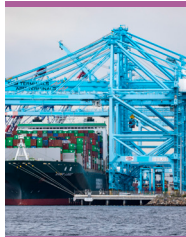


# 2020 AIR QUALITY REPORT CARD

## 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<sub>x</sub>, and SO<sub>x</sub> 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 reductions shown are compared to 2005 baseline levels.



### CLEAN AIR ACTION PLAN (CAAP) GOALS

	2014	2023
DPM	72%	77%
NO <sub>x</sub>	22%	59%
SO <sub>x</sub>	93%	93%
	<b>2020</b>	
Health Risk	85%	



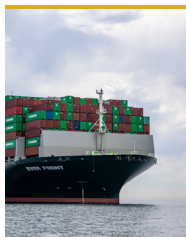
### OVERALL EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	89%	766
PM <sub>2.5</sub>	88%	774
PM <sub>10</sub>	89%	908
NO <sub>x</sub>	64%	10,289
SO <sub>x</sub>	98%	4,722



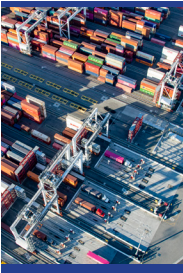
### EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS

Pollutant	%	tons
DPM	91%	1.05
PM <sub>2.5</sub>	90%	1.06
PM <sub>10</sub>	91%	1.24
NO <sub>x</sub>	71%	15.21
SO <sub>x</sub>	98%	6.34



### OCEAN-GOING VESSEL EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	93%	416
PM <sub>2.5</sub>	90%	443
PM <sub>10</sub>	91%	559
NO <sub>x</sub>	45%	2,326
SO <sub>x</sub>	98%	4,572



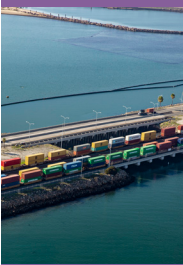
## HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

<i>Pollutant</i>	<i>%</i>	<i>tons</i>
DPM	98%	242
PM <sub>2.5</sub>	98%	232
PM <sub>10</sub>	98%	242
NO <sub>x</sub>	83%	5,232
SO <sub>x</sub>	92%	41



## HARBOR CRAFT EMISSIONS REDUCTIONS

<i>Pollutant</i>	<i>%</i>	<i>tons</i>
DPM	57%	31
PM <sub>2.5</sub>	57%	29
PM <sub>10</sub>	57%	31
NO <sub>x</sub>	45%	597
SO <sub>x</sub>	89%	5



## RAIL EMISSIONS REDUCTIONS

<i>Pollutant</i>	<i>%</i>	<i>tons</i>
DPM	48%	28
PM <sub>2.5</sub>	49%	26
PM <sub>10</sub>	48%	28
NO <sub>x</sub>	54%	926
SO <sub>x</sub>	99%	97



## CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS

<i>Pollutant</i>	<i>%</i>	<i>tons</i>
DPM	91%	49
PM <sub>2.5</sub>	89%	45
PM <sub>10</sub>	89%	48
NO <sub>x</sub>	77%	1,207
SO <sub>x</sub>	81%	7



## CO<sub>2</sub> EQUIVALENT CHANGES

<i>Source Type</i>	<i>%</i>	<i>tonnes</i>
Ocean-Going Vessels	◆ 25%	◆ 68,991
Harbor Craft	◆ 6%	◆ 3,449
Cargo-Handling Equipment	◆ 23%	◆ 31,340
Rail	◆ 20%	◆ 16,214
Heavy-Duty Vehicles	◆ 16%	◆ 76,198
<b>TOTAL</b>	<b>◆ 12%</b>	<b>◆ 126,613</b>

◆ = reduction ◆ = increase

### 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)