



**THE PORT** LA  
OF LOS ANGELES

AMERICA'S PORT®

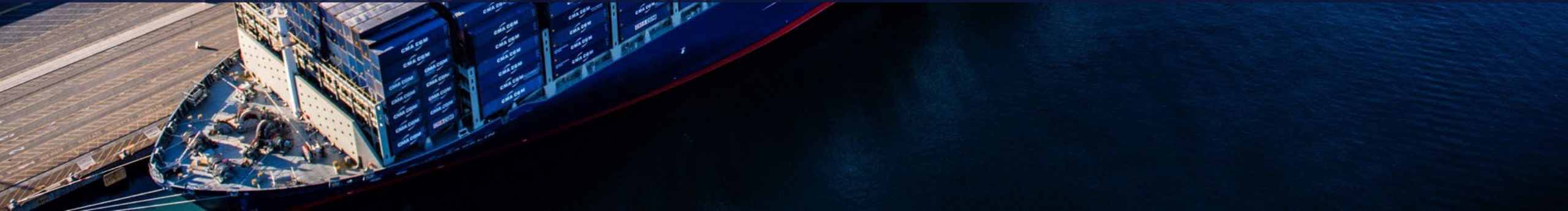
# 2024 Inventory of Air Emissions

Presented by:

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Presented to:

Board of Harbor Commissioners  
October 16, 2025



## PORT OF LOS ANGELES

### Inventory Of Air Emissions 2024

Technical Report | September 2025



THE PORT  
OF LOS ANGELES

STARCREST CONSULTING GROUP, LLC  
ENVIRONMENTAL MANAGEMENT • AIR QUALITY • CLIMATE • SUSTAINABILITY

# Emissions Inventory Background

- Clean Air Action Plan (CAAP) based program
- Activity-based
- Annual: 2001, 2005-2024
  - Longest running, most detailed port emissions inventory program in the World
- Scope
  - Pollutants: PM • PM<sub>10</sub> • PM<sub>2.5</sub> • DPM • NO<sub>x</sub> • SO<sub>x</sub> • HC • CO
  - Greenhouse gases: CO<sub>2</sub> • CH<sub>4</sub> • N<sub>2</sub>O • CO<sub>2e</sub>

<https://www.portoflosangeles.org/environment/air-quality/air-emissions-inventory>

# Geographical Boundary





## Emissions Inventory Coordination

- 3rd Party QA/QC of Data Quality and Emission Calculations
- Coordination with Port Tenants

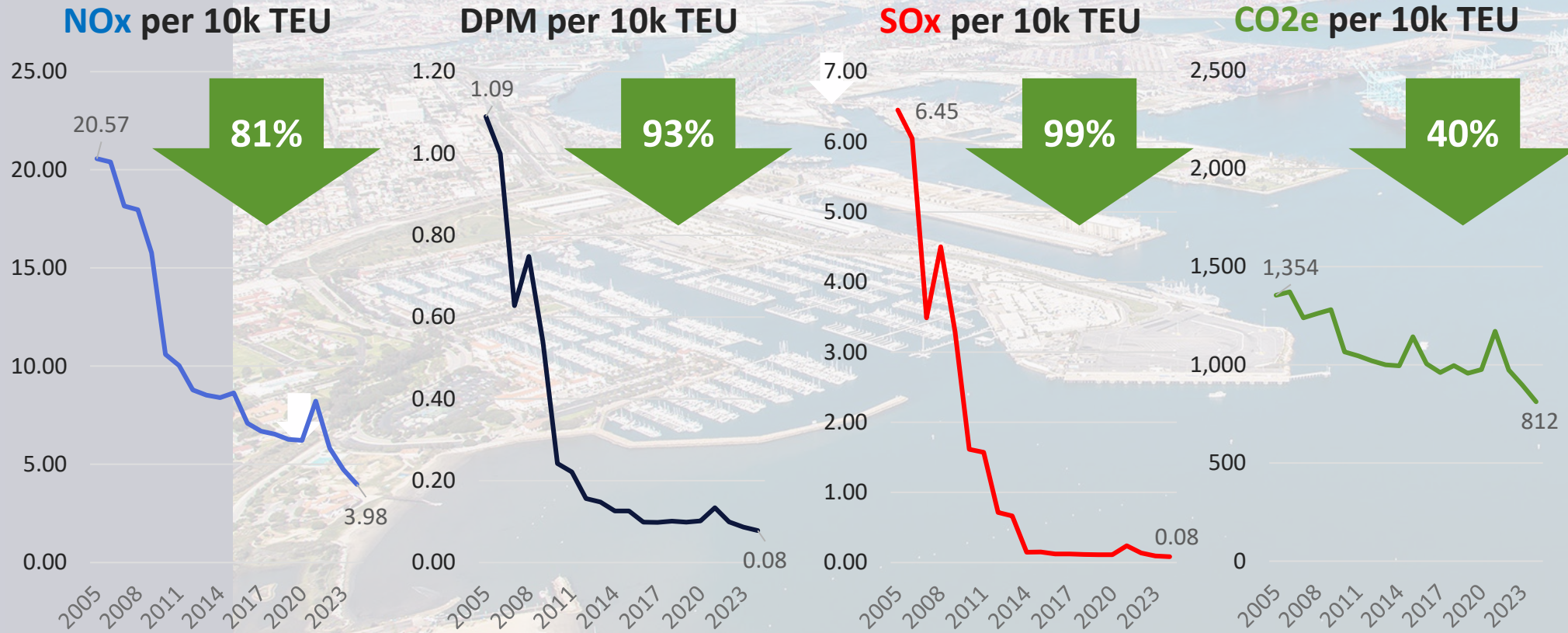
Coordination annually with Technical Working Group:

- US Environmental Protection Agency
- California Air Resources Board
- South Coast Air Quality Management District



# Air Emission Improvements per 10,000 TEUs, 2005-2024

Percent Reduction, 2024 versus 2005 baseline



# Port of Los Angeles Air Emissions, 2024

Compared to 2005 Baseline

**-90%** 

**Diesel Particulate Matter**

**-98%** 

**Sulfur Oxides**

**+38%**

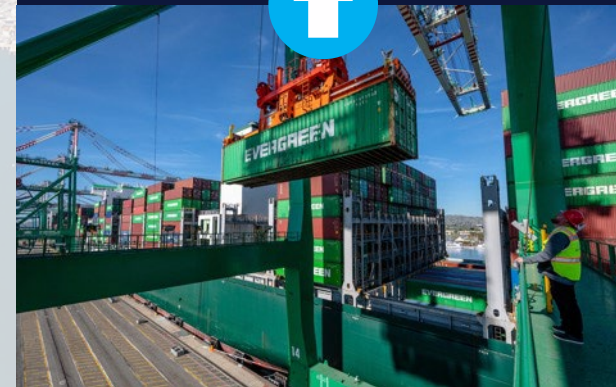
**TEUs**

**-18%** 

**Greenhouse Gases**

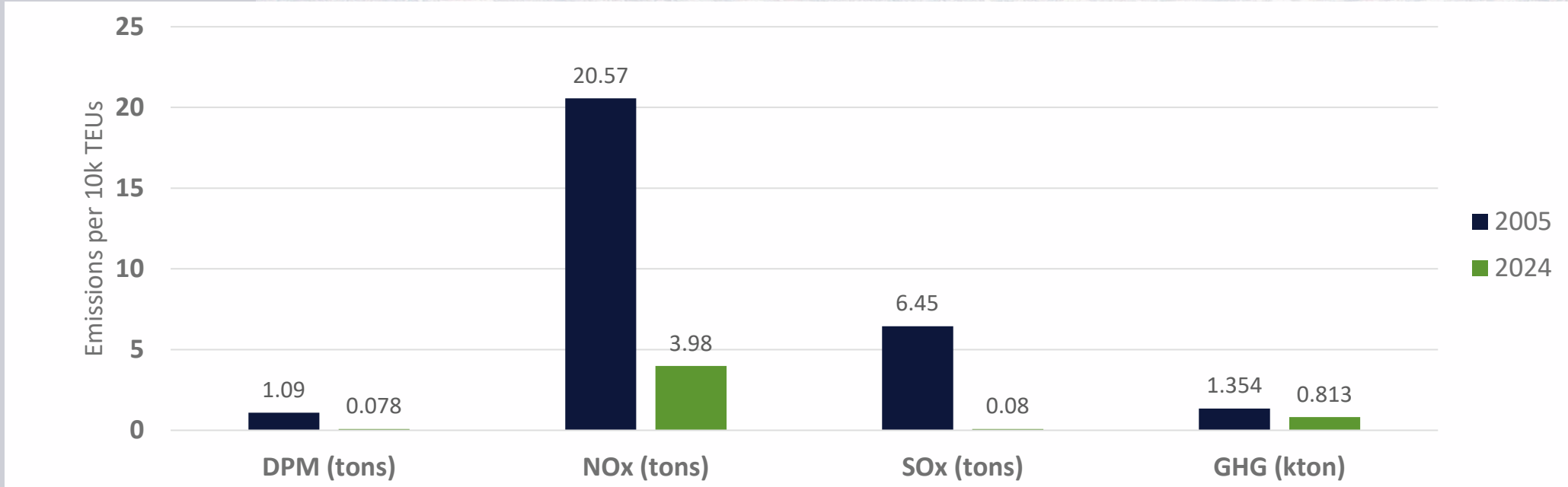
**-73%** 

**Nitrogen Oxides**



# Air Emission Improvements per 10,000 TEUs

2024 compared to 2005 Baseline



Emission Reduction per 10k TEUs

93%

81%

99%

40%

San Pedro Bay Ports are Working Together to Reduce Environmental Impacts

## POLA Air Emission Changes - 2024 Against 2017 Baseline

-12%



Diesel Particulate Matter

-24%



Sulfur Oxides

+10%

TEUs

-6%

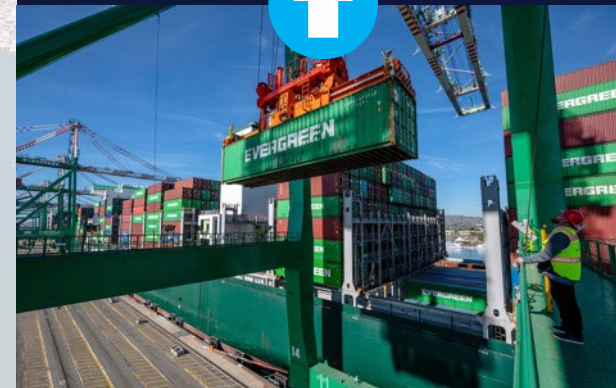


Greenhouse Gases

-34%

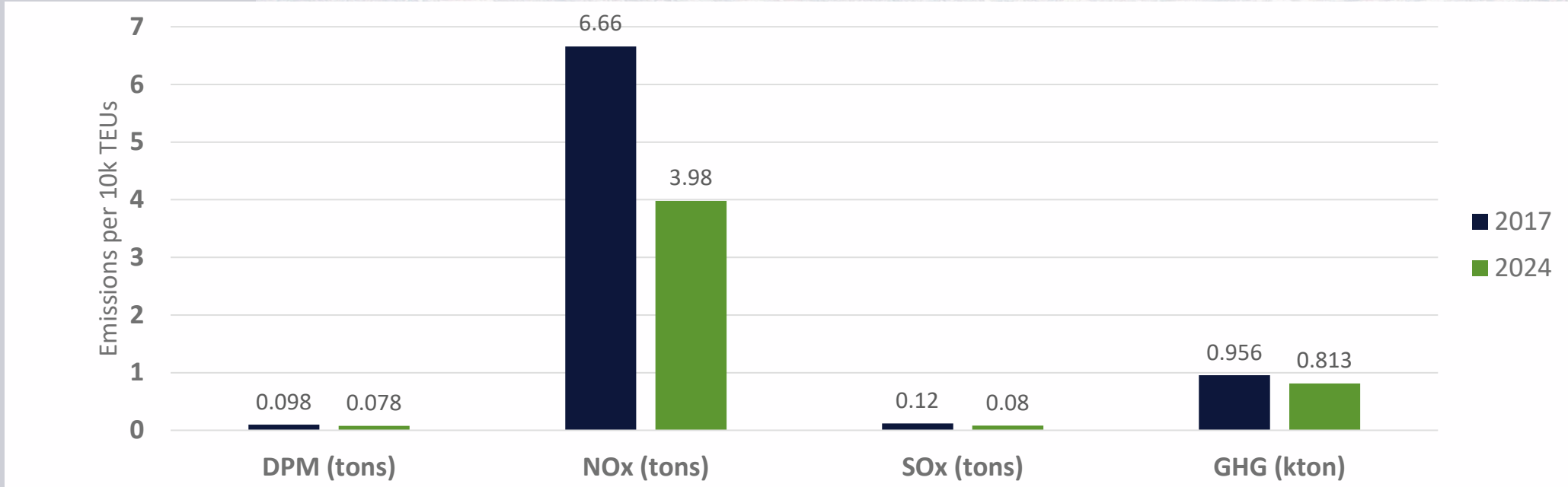


Nitrogen Oxides



# Air Emission Improvements per 10,000 TEUs

2024 compared to 2017 Baseline



Emission Reduction per 10k TEUs

20%

40%

33%

15%

San Pedro Bay Ports are Working Together to Reduce Environmental Impacts

## POLA Air Emission Changes - 2024 vs 2023

**+8%**



**Diesel Particulate Matter**

**+5%**



**Sulfur Oxides**

**+19%**

**TEUs**

**+8%**

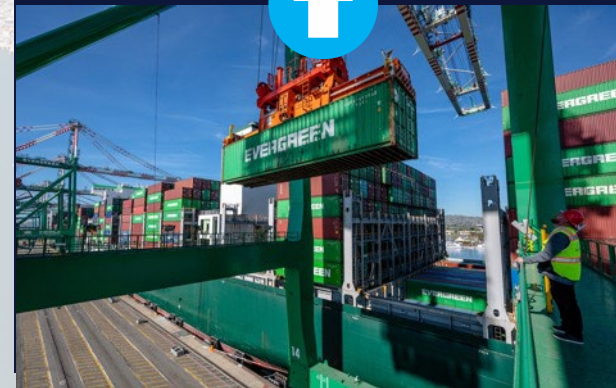


**Greenhouse Gases**

**+0.5%**

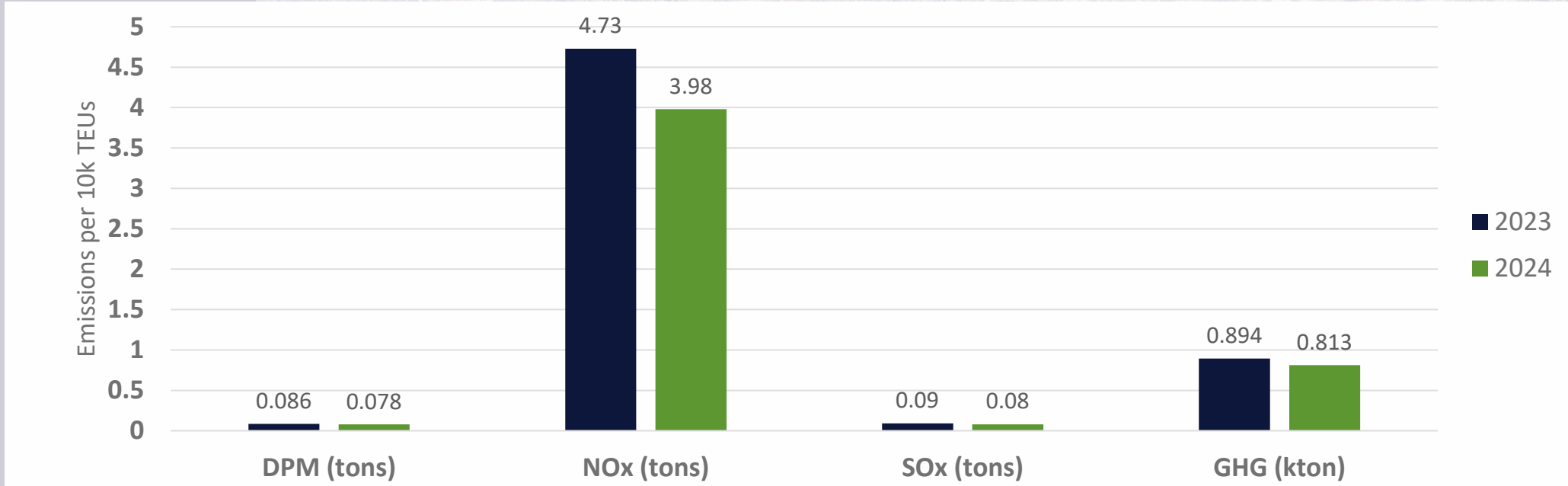


**Nitrogen Oxides**



# Air Emission Improvements per 10,000 TEUs

2024 compared to 2023 Baseline



Emission Reduction per 10k TEUs

9%

16%

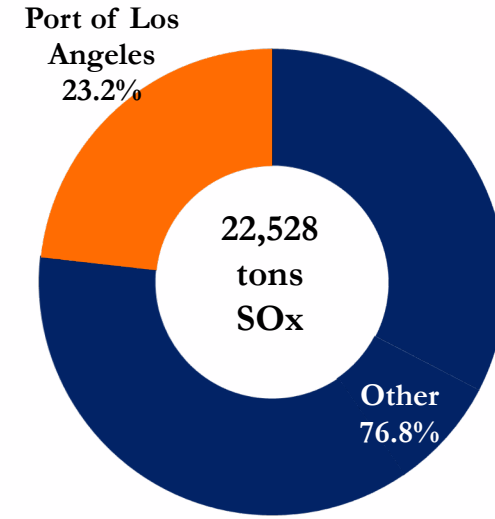
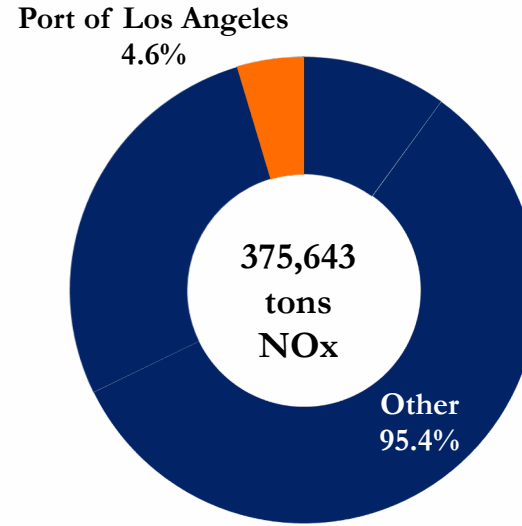
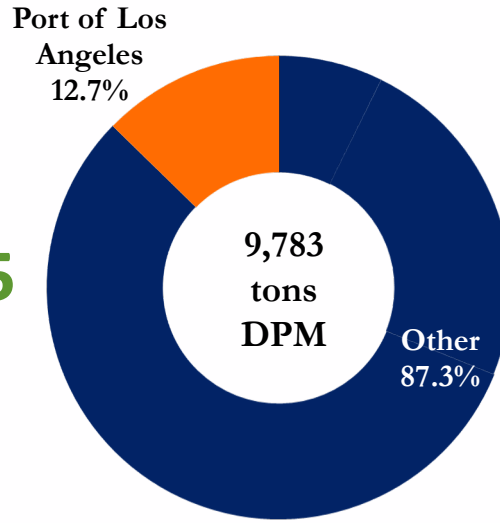
11%

9%

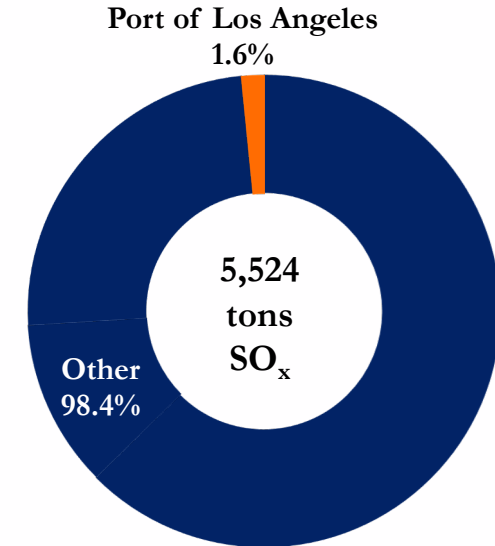
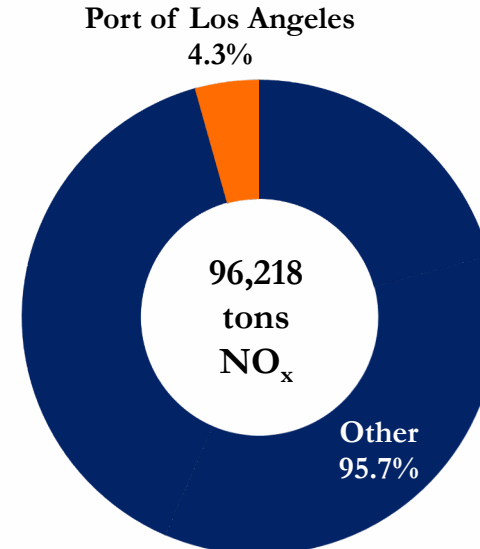
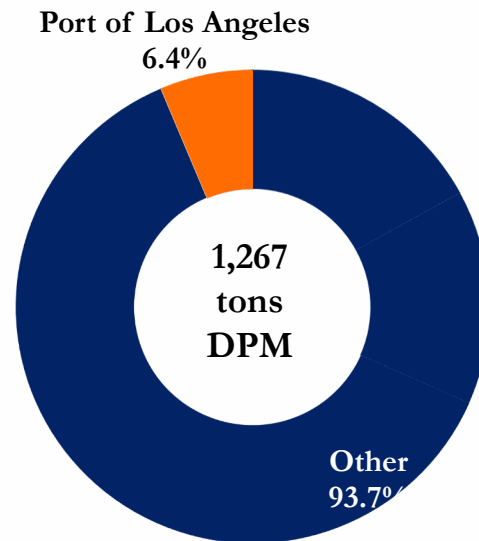
# South Coast Air Basin Regional Emission Contributors

## 2005 and 2024

2005



2024



# Looking Ahead

- LADWP Infrastructure Upgrades
- POLA/POLB/AQMD Collaborative Agreement
- Clean Truck Fund Spending Plan Implementation
- Grant Deployments
  - Trucks, Cargo-Handling Equipment, Harbor Craft, Locomotives, Community-Led Projects
- Green Shipping Corridors – Carbon Neutral Ships





A M E R I C A ' S P O R T ®

THANK YOU



[portoflosangeles.org](http://portoflosangeles.org)

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