




The Clean Air Strategy Update

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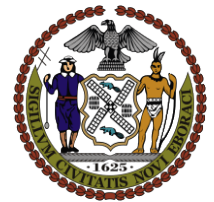


The Clean Air Strategy



Clean Air Strategy

Ensure maritime-related air emissions at the Port of NY & NJ decline even with anticipated port growth



City of New

THE PORT AUTHORITY
OF NEW YORK & NEW JERSEY

NYCEDC
NEW YORK CITY. MAKE IT HERE.

NJTPA
NORTH JERSEY
TRANSPORTATION
PLANNING AUTHORITY

A CLEAN AIR STRATEGY FOR THE PORT OF NEW YORK & NEW JERSEY

REDUCING MARITIME-RELATED AIR QUALITY IMPACTS ON HUMAN HEALTH AND THE ENVIRONMENT

ABOUT THE STRATEGY

- Developed in 2009, the original Clean Air Strategy (Strategy) outlined voluntary actions to reduce emissions from maritime-related activities at the Port of New York and New Jersey by 2020 despite any port growth
- The Strategy Partners implemented 80% of near-term actions in the first five years
- The 2014 Update presents a new set of voluntary sector-specific actions that build on successful strategies, target greenhouse gas and ozone precursor emissions, and encourage alternative fuels

Strategy Goals (Emission reductions measured from a 2006 baseline)

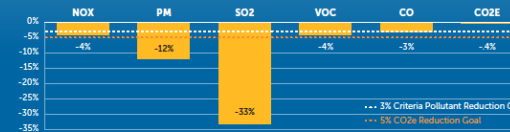


Scope

The scope of the Strategy includes Brooklyn Port Authority Marine Terminal, Howland Hook Marine Terminal, Port Newark, Port Jersey Marine Terminal, and Elizabeth Port Authority Marine Terminals. The scope does not include emissions tied to non-maritime Port Authority facilities such as airports, bridges, tunnels, or maritime-related facilities not under the aegis of the Port Authority.

PROGRESS TOWARD CLEANER AIR

PROGRESS TOWARD STRATEGY GOALS: COMPOUND ANNUAL GROWTH RATE, 2006-2016



The Port of New York and New Jersey is the largest port on the East Coast and 3rd largest in the U.S. Emissions are decreasing despite a 23% increase in cargo throughput from 2006-2016.

NOx: Nitrogen oxides
PM: Particulate matter, including PM10 and PM2.5 (fine particulate matter)
SO2: Sulfur dioxide

VOC: Volatile organic compounds
CO: Carbon monoxide
CO2e: Greenhouse gases, measured in carbon dioxide equivalent units

SECTORS

- OCEAN-GOING VESSELS
- RAIL LOCOMOTIVES
- HEAVY-DUTY DIESEL VEHICLES
- CARGO-HANDLING EQUIPMENT
- HARBOR CRAFT

PARTNERS

The 2009 Strategy and 2014 Update were developed by a multi-agency Strategy Group and with input from industry and community stakeholders

- New Jersey Department of Environmental Protection
- New York State Department of Environmental Conservation
- City of New York, Mayor's Office of Long Term Planning and Sustainability
- New York City Department of Transportation
- New York Economic Development Corporation
- New York Metropolitan Transportation Council
- North Jersey Transportation Planning Authority
- New York Shipping Association
- United States Environmental Protection Agency Region 2
- Terminal Operators
- Host municipalities in New Jersey
- The Port Authority of New York & New Jersey

- Heavy-Duty Diesel Vehicles are the largest source of PM, CO, VOC, and CO2e
- Ocean-Going Vessels are the largest source of NOx and SO2

June 2018

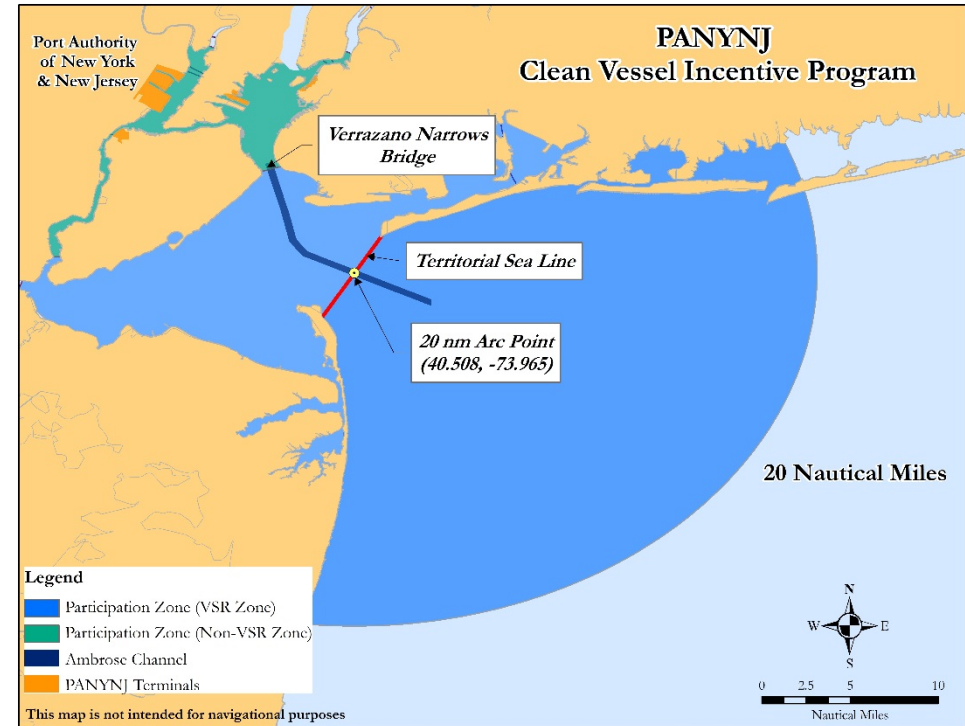
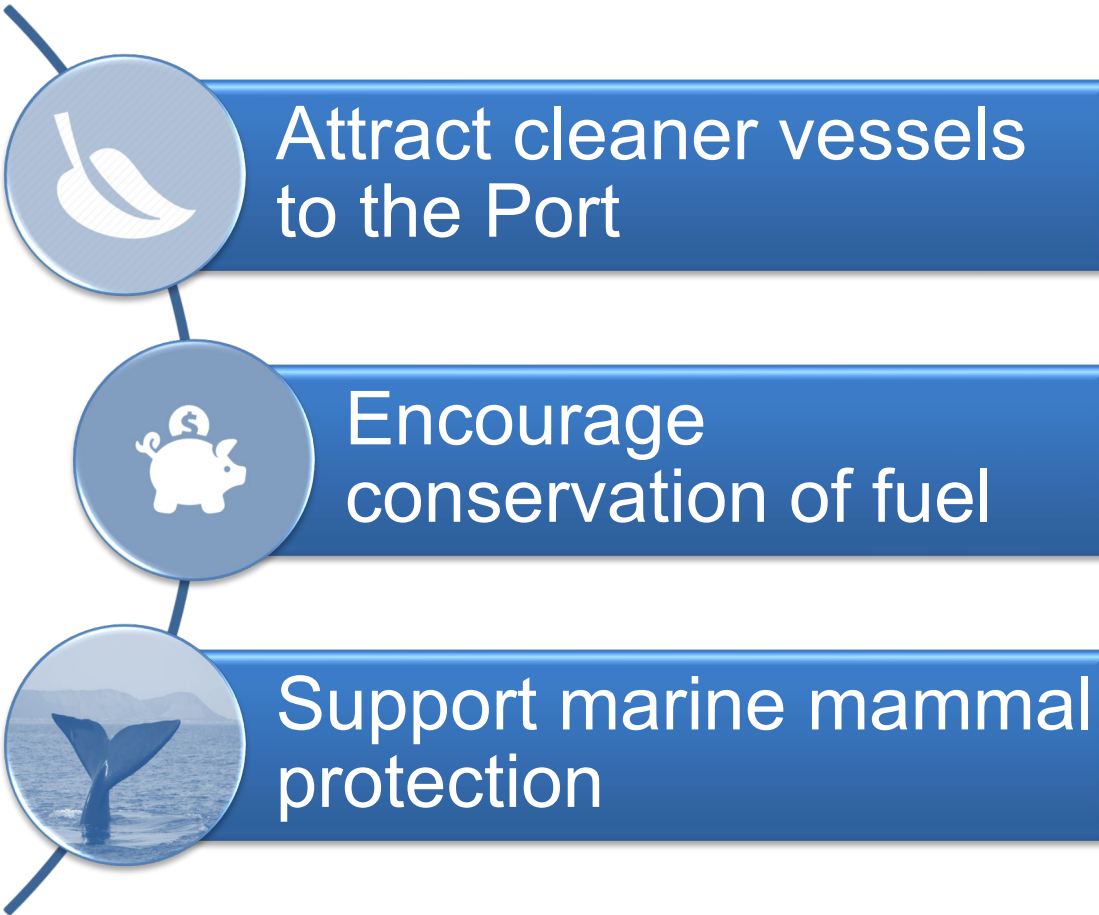


PANYNJ's Programs and Projects

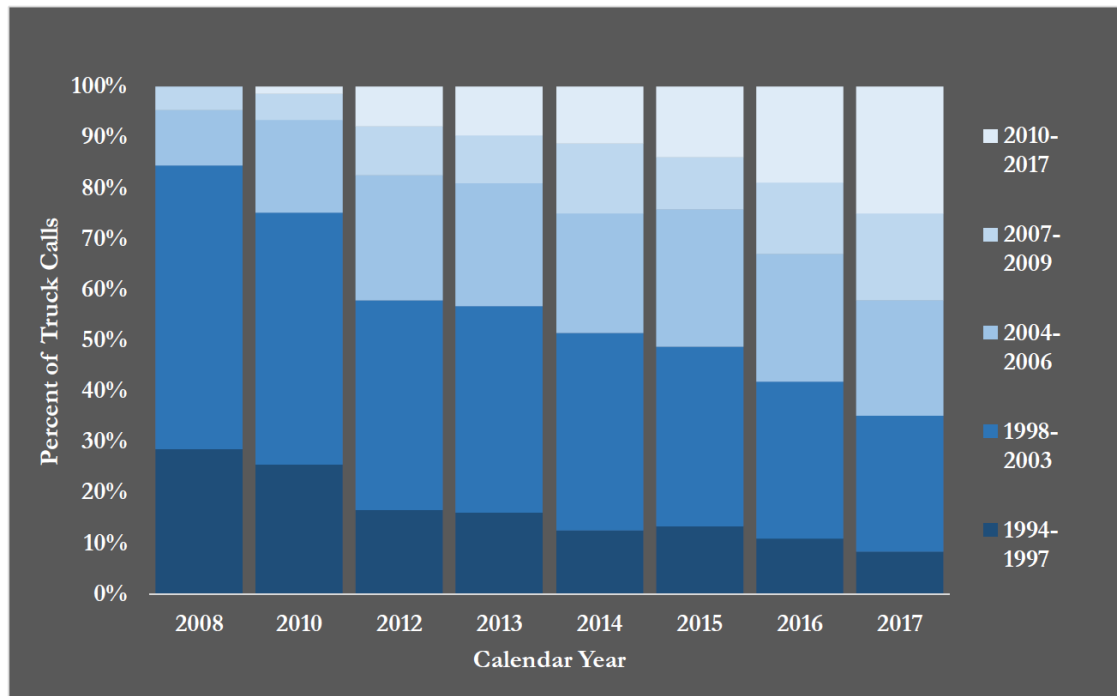


Clean Vessel Incentive Program

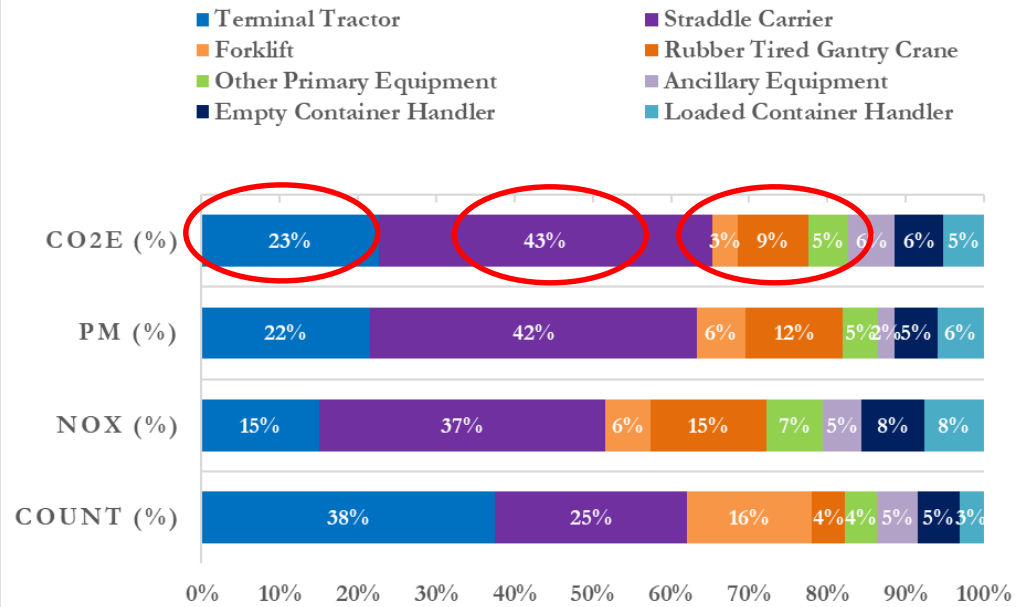
[2013-2015] & [2016-2018] & [2019-2023]



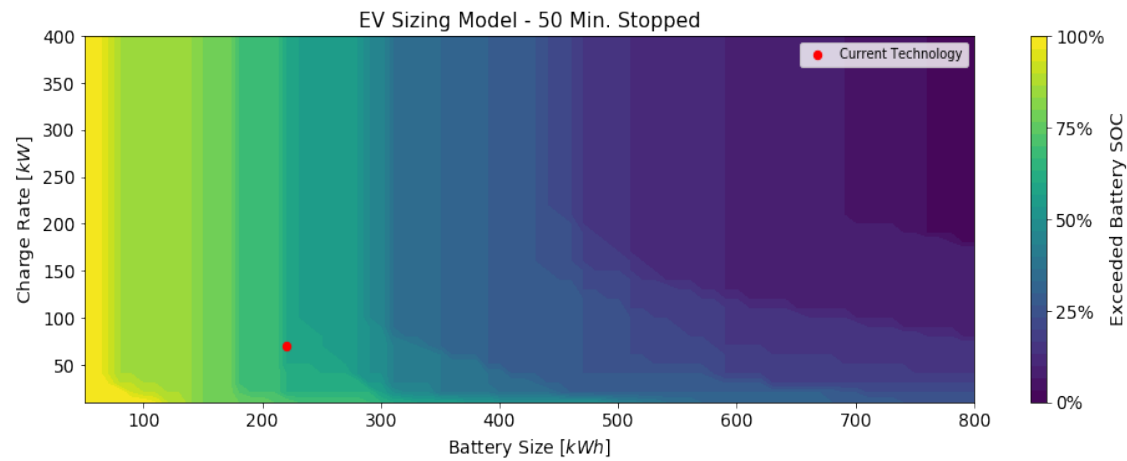
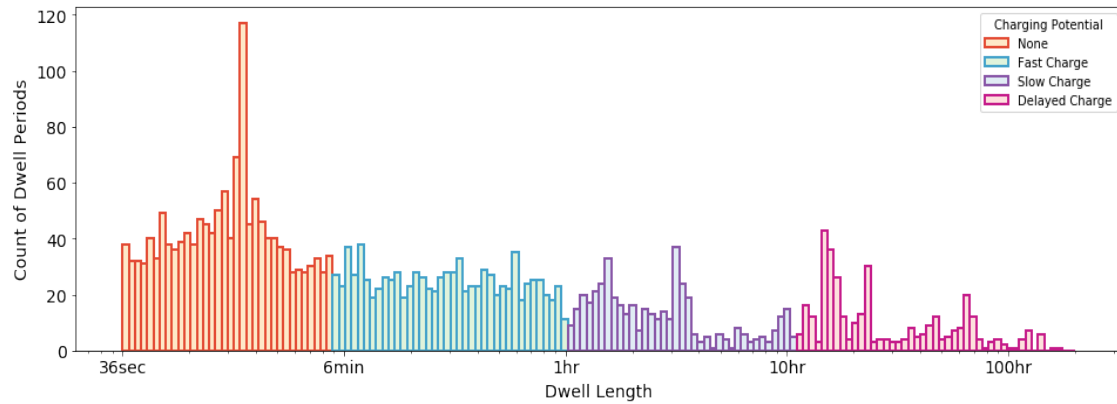
Truck Replacement Program



Cargo Handling Equipment Fleet Modernization Program

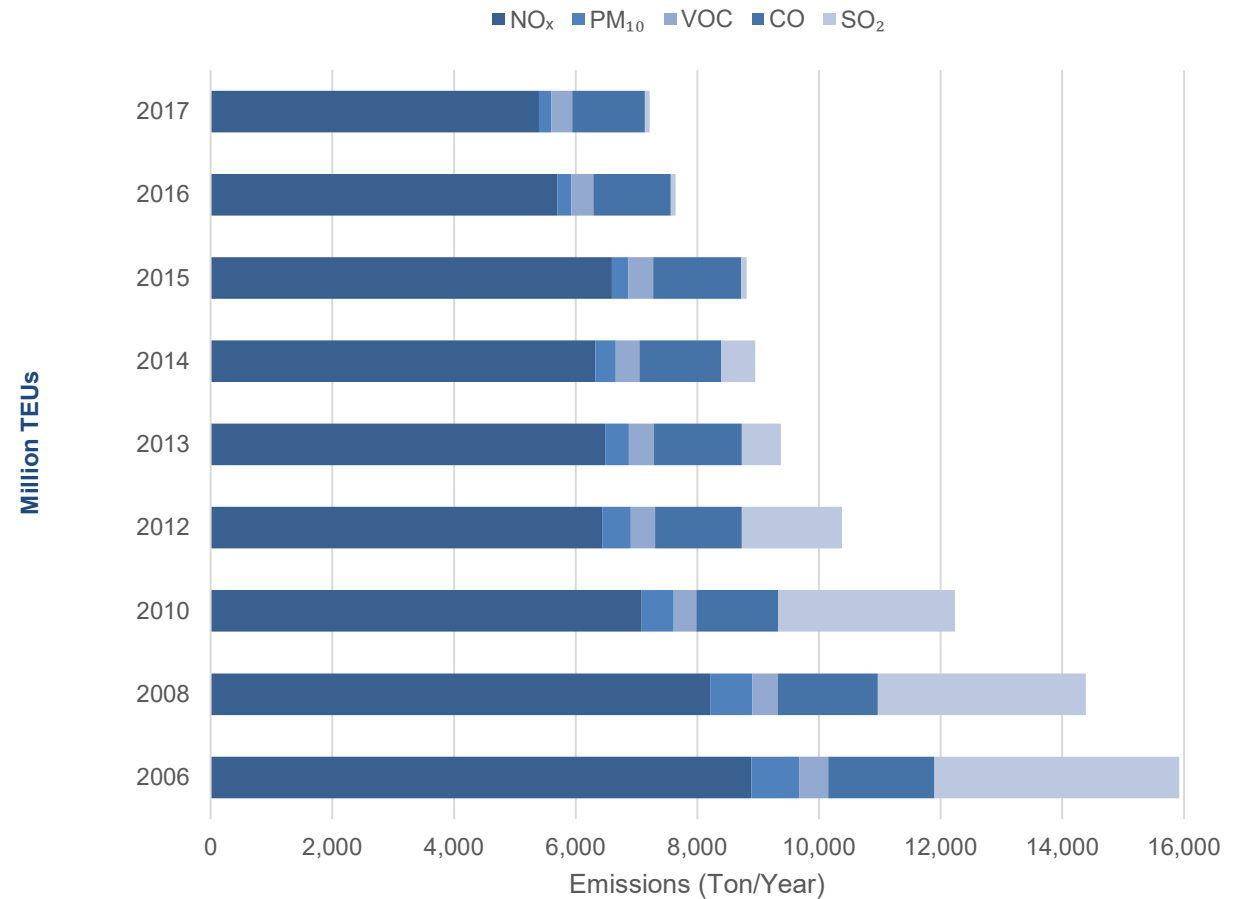
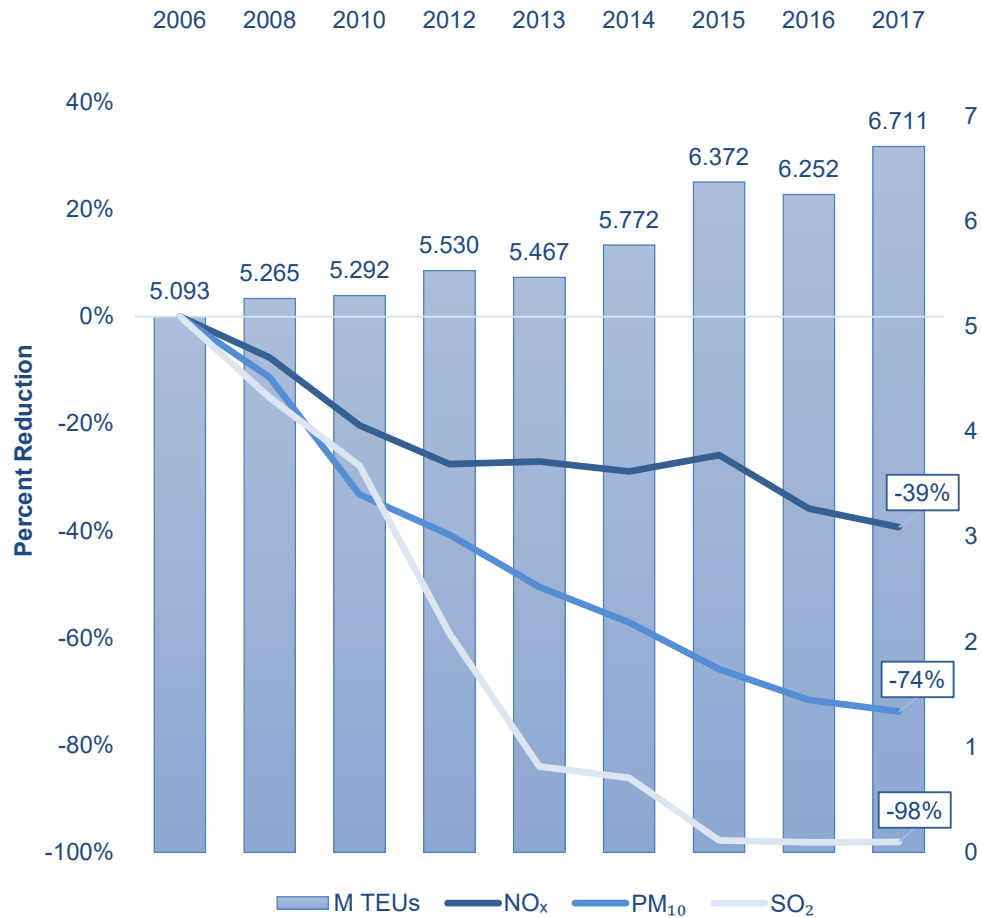


Pilot & Demo Projects

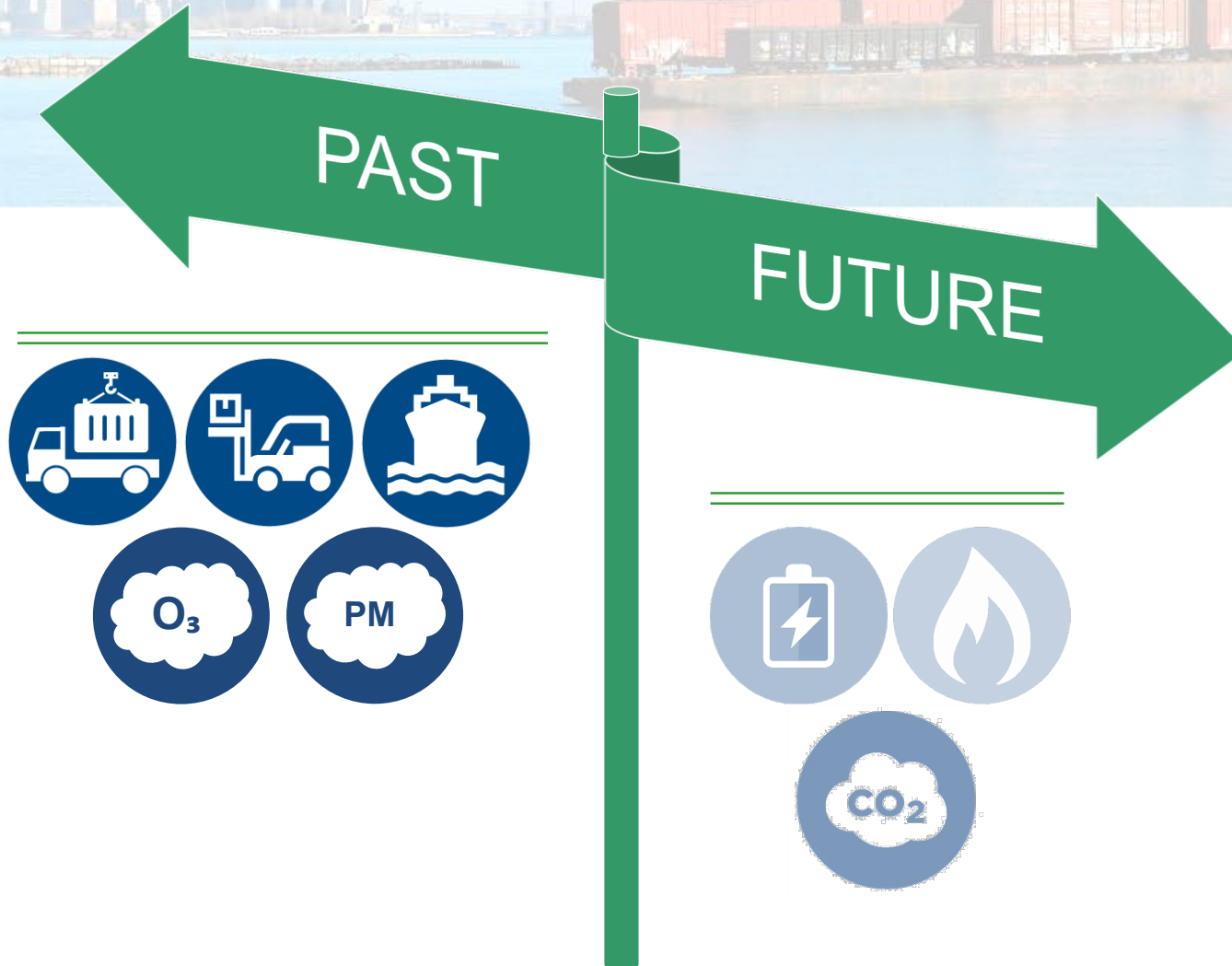


Port Related Emission

Emissions decreased despite 32% cargo growth



What Next?





Questions?

panynj.gov/about/port-initiatives.html
or
cleanports-nynj.com

