



## ***TOOL BOX FOR PORT CLEAN AIR PROGRAMS*** ***Improving Air Quality While Promoting Business Development***

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### **CASE STUDY:**

#### **PORT OF NEW YORK NEW JERSEY**

#### **CLEAN AIR INITIATIVES AND HARBOR AIR MANAGEMENT PLAN**

The Port of New York and New Jersey, the largest port complex on the East Coast of North America, is located in the Atlantic Northeast of the United States within the USEPA-designated New York/New Jersey/Long Island Non-Attainment Area (NYNJLINA) for Nitrogen Oxides (NO<sub>x</sub>). Portions of the NYNJLINA are unlikely to meet federal ambient air quality standards for fine particulate matter as new stricter US standards come into place.

The Port Commerce Department of the Port Authority of New York and New Jersey (PANYNJ) is a landlord for six marine cargo terminals. Dedicated to Environmental Stewardship as one of its key business objectives, the Port Commerce Department is committed to promoting air quality enhancement efforts as it accommodates growing cargo volumes to satisfy the needs of the largest consumer demand region in the United States. In order to be successful, the Port aims to be a sustainable port, by promoting regional prosperity, financial return and the dual imperatives of security and the environment.

PANYNJ has adopted a proactive strategy to improve air quality that involves compliance with existing regulations, exceeding all mitigation requirements and undertaking voluntary initiatives to reduce air emissions. The Port Commerce Department has implemented an Environmental Management System to ensure compliance with air quality laws and regulations. In addition, there are initiatives underway to offset NO<sub>x</sub> emissions generated during channel-deepening construction that will exceed regulatory requirements. The Port Commerce Department also has several on-going voluntary, collaborative efforts that are evaluated for their ability to reduce air emissions and cost effectiveness.

For example, a cargo handling equipment (CHE) emissions inventory undertaken to assess the impact of our container terminal tenants' voluntary modernization of CHE and use of cleaner burning fuels showed a greater emission reductions across the full spectrum of pollutants despite a 25% increase in cargo handled. A subsequent emission inventory of vessels dwelling at these same facilities showed that they contributed a small percentage of overall pollutants in the non-attainment area.



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In order to meet growing cargo demands, the Port Commerce Department is investing nearly two billion dollars over the next decade to reconfigure existing terminals, deepen the harbor's channels and berths and improve inland access by rail and barge. This investment will create an efficient and cost-effective port, while also reducing local congestion, enhancing air quality and conserving energy. Improvements include installing infrastructure to support electric-regenerative cranes, and significantly enhancing on-dock and regional rail capabilities. In addition, our marine tenants are investing heavily in gate improvements, electric cranes, yard equipment modernization and use of cleaner fuels, all of which enhance air quality. The Port Commerce Department, along with its tenants, public agencies and private partners collaborate on voluntary efforts to field test new off road technologies and develop clean equipment prototypes, such as active diesel particulate filters and hybrid yard tractors. Collaborative efforts that go beyond the immediate port area include working with the EPA, state regulators and port members of the Northeast Diesel Collaborative to develop voluntary regional strategies and USEPA's Clean Ports Program to help develop voluntary industry wide initiatives.

