



***Faster Freight – Cleaner Air 2007***  
***February 27, 2007***

**“Environmental Programs At The Port  
Of New York and New Jersey”**

Bill Nurthen

Port Authority of New York and New Jersey



***Port of New York and New Jersey***

**Third Largest US Port**

**Landlord Port, 3000 Acres, 89 Tenants**

- Containers, Autos, Bulks, Warehouses

**2005: 4.7M TEU, 7% Increase**

**Projected Cargo at 7% Growth Rate**

- 2010: 6.4M TEU
- 2016: 10.0M TEU

**Economy: 233K Jobs, \$12B Wages, \$6B Taxes**

**Triple Bottom Line**

- Regional Prosperity + Financial Return + Environment and Security



## *Environmental Stewardship Programs*

### **Harbor Restoration**

- \$60M Environmental Site Acquisition
- \$9M Hudson-Raritan Estuary Restoration Project (HRE)
- Wetland Creation
- \$31M Contaminant Studies and Reduction Strategies
- Harbor Roundtable

### **Beneficial Reuse of Dredge Material**

- Artificial Reefs
- Shoreline Restoration
- Brownfields Site Remediation

### **Portfields**

- Warehouse/DC

### **Green Port Program**

- EMS, Green Practices Task Force, Tenant Training

3

## *Environmental Stewardship Programs*

### **Air Quality**

- **Rail Enhancement:**
  - \$600M infrastructure – 1M Lift Capacity 2009
  - On Dock Rail Elizabeth, Newark, Staten Island
  - Expanded Support Yard – Accommodate 2 Mile Train
  - Reactivation of Staten Island RR and Arthur Kill Lift Bridge
  - \$50M to NY and NJ for Off Port Rail Improvements
- **Infrastructure for Electric Cranes**
- **Marine Tenant Actions**
  - Installed Electric Cranes
  - Reoriented Footprints
  - Installed Electronic Gates
  - Extended Hours
  - Modernized CHE: Over 30% Reduction Across All Pollutants
  - Ultra Low Sulfur Fuel for Non-road Equipment
  - Use of Propane and Electrical Forklifts

4

## *Air Quality Programs*

- **Pilot Projects**
  - Active DPF Yard Tractors (NYCT)
  - Kim Hot Start on Switcher (NYCT)
  - Caterpillar Retrofits (APM/Maher)
- **Ferry Retrofit and Marine Vessel Engine Replacement**
  - \$14M - Over 400 Tons/yr NOx Reduction
- **Voluntary No Idle Policy**
- **Biodiesel Heating Fuel**
- **Virtual Container Yard (\$100K)**
- **Promoting SmartWay Partnership**

5

## *Air Quality Programs*

- **Detailed Emissions Inventories**
  - Commercial Marine Vessel Emissions Inventory
  - Hotelling Emissions Inventory
  - Analysis of Offset Reduction Measures
  - Cargo Handling Equipment (2002 and 2004 Fleet)
  - Drayage Trucks (Feb 07)
- **Coalition Building**
  - Northeast Diesel Collaborative (USEPA/State Governments)
  - Clean Ports USA (USEPA/AAPA)
  - Diesel Emission Risk Reduction Program (NJ DEP)
  - Funding Partners (NY Power Authority; NJ Board of Public Utilities)

6

## ***Air Quality Programs***

### **New Initiatives**

- **Bridgeport/Pt. Jefferson Ferry Engine Replacement**
  - Potential Reduction: 63 Tons/yr NOx, 2.3 Tons/yr PM
- **Voluntary Vessel Speed Reduction Program**
  - Potential 200 Tons/yr NOx Reduction

### **Actions to Advance Air Emission Reductions**

- **Air Credit Banks**
- **Tax Incentives/Low Interest Loans/Rebates**
- **Regional Collaborative to Modernize Aging Truck Fleet**
- **Ratify MARPOL Annex VI – SECA**
- **Funds for Development/Evaluation of New Technologies**
  - CHE, Vessels, Rail, Trucks