

Improving Air Quality at the Port of New York and New Jersey

Ocean-going Vessel Clean Vessel Incentive Program

**Committee on Operations
August 1, 2012**

Air Emissions Contribution of Ocean-going Vessels (OGV)



OGV contribution to overall emissions at the Port:

Nitrogen Oxide (NO_x) - 42% (2,934 tons/year)

Particulate Matter (PM) – 61% (230 tons/year)

Sulfur Oxide (SO_x) – 99% (2,773 tons/year)

Anticipated annual emissions reductions to be achieved through proposed Clean Vessel Incentive Program:

NO_x – 182 tons

PM – 38 tons

SO_x – 264 tons



Environmental Ship Index (ESI)

- Web-based tool that identifies vessels that perform beyond the regulatory environmental standards set by the International Maritime Organization (IMO) in reducing air emissions
- ESI awards points based on 4 categories and publishes vessel score on its website:
 - Nitrogen Oxide
 - Sulfur Oxide
 - Carbon Dioxide
 - Confirmation that vessel has shore power plug-in capability
- Purpose of the ESI is to recognize and reward top performing clean ships

Proposed Clean Ship Incentive Program

- Port Authority to offer incentive for vessels that achieve an ESI score of at least 20 points
- Maximum ESI score is 100 points
- 2011 average ESI score for vessels calling at our Port was 18.3 points
- Additional 5 points added to ESI score if vessel also participates in vessel speed reduction program



Requested Authorization

Establish Clean Vessel Incentive Program:

- \$4.875 million program to encourage operators of ocean-going vessels that call at PA marine terminal facilities to make voluntary engine, fuel and technology enhancements that reduce emissions
- Incentives would be based on:
 - ESI Score of 20-29 points:* \$1,500 per vessel call
 - ESI Score of 30 or more points:* \$2,500 per vessel call
 - Utilization of Tier II Engine: \$1,000 per vessel call
 - Utilization of Tier III Engine: \$2,000 per vessel call

* Inclusive of 5 points for participation in vessel speed reduction program