The Green Port Policy: Why & What

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Who we are

America’s 2\textsuperscript{nd} busiest container port

$140 \text{ billion in trade}$

Leading gateway for U.S. – Asia trade

40\% of nation’s imports
Competition for trade

- Pacific Northwest (Prince Rupert, Vancouver, Seattle, Tacoma)
- Port of LONG BEACH (San Pedro Bay)
- Mexico (Lazaro Cardenas)
- All Water (Gulf and East Coast)
Being a Good Neighbor

Port operations directly impact the local community
License to Operate

The Port can only move ahead with its improvement projects with the support of the community and political leaders.
Community Needs

In 2004, the Port lost community support
Air Quality

Clean Air Action Plan (CAAP)

• Minimize health risk from port operations
• Build upon existing programs
• Set consistent standards
• Enable port development
Clean Air Action Plan (CAAP)

Groundbreaking plan to significantly reduce air pollution and health risk

Strategies targeting reductions from all port sources

Developed jointly with POLA, in cooperation with EPA, CARB and AQMD
Clean Air Action Plan

Reduce air pollution
Reduce health risk 85% by 2020

Strategies for all source categories
• ships
• trucks
• trains
• harbor craft
• cargo-handling equipment
Sources of Diesel Emissions*

- **Ships**: 64%
- **Harbor craft**: 13%
- **Cargo handling equipment**: 8%
- **Trucks**: 8%
- **Trains**: 8%

*2010 Diesel Particulate Matter
Vessel Strategies

Ocean-Going Vessels
• Green Flag Vessel Speed Reduction Program
• Shore-to-ship electricity
• Low-sulfur diesel fuels
• NOx and PM controls

Harbor Craft
• Re-power or replace vessels
Clean Trucks

- 11,000 trucks registered
- Including more than 700 LNG trucks
- Truck related pollution reduced more than 90% in three years
Switcher Locomotives

2008 - PHL upgraded fleet to Tier 2 engines

2011 - Upgrade to Tier 3-Plus

95% - Reduction of DPM

72% - Reduction of NOx
Technology Advancement

Advisory Committee established
- Hybrid Tug Boats
- Battery-powered trucks
- Fuel-cell hybrid trucks
- Alternative vessel strategies
Tracking, Monitoring, and Reporting

- Expand Port-Area Real Time Air Monitoring Network
- Emissions Inventory-Regular Updates
- Monitor Progress on Clean Air Action Plan
- Report Progress on Clean Air Action Plan
Diesel Particulate Matter

75%
Mitigation Grant Program - Reducing our impacts

Schools

Greenhouse Gas

Health Care
Improving public health
283,000 beneficiaries
115,000 children
168,000 adults, seniors & families
Middle Harbor Redevelopment
Middle Harbor Redevelopment

✓ Half the pollution
✓ 14,000 new jobs
✓ Local construction workers, prevailing wages
✓ 25% small or very small businesses
✓ $15 million for community mitigation grants
So What Did We Do?

- Identify problems
- Identify goals
- Develop local solutions
- Leverage international action